# SUPERMICRO®

The Server Solutions Manufacturer
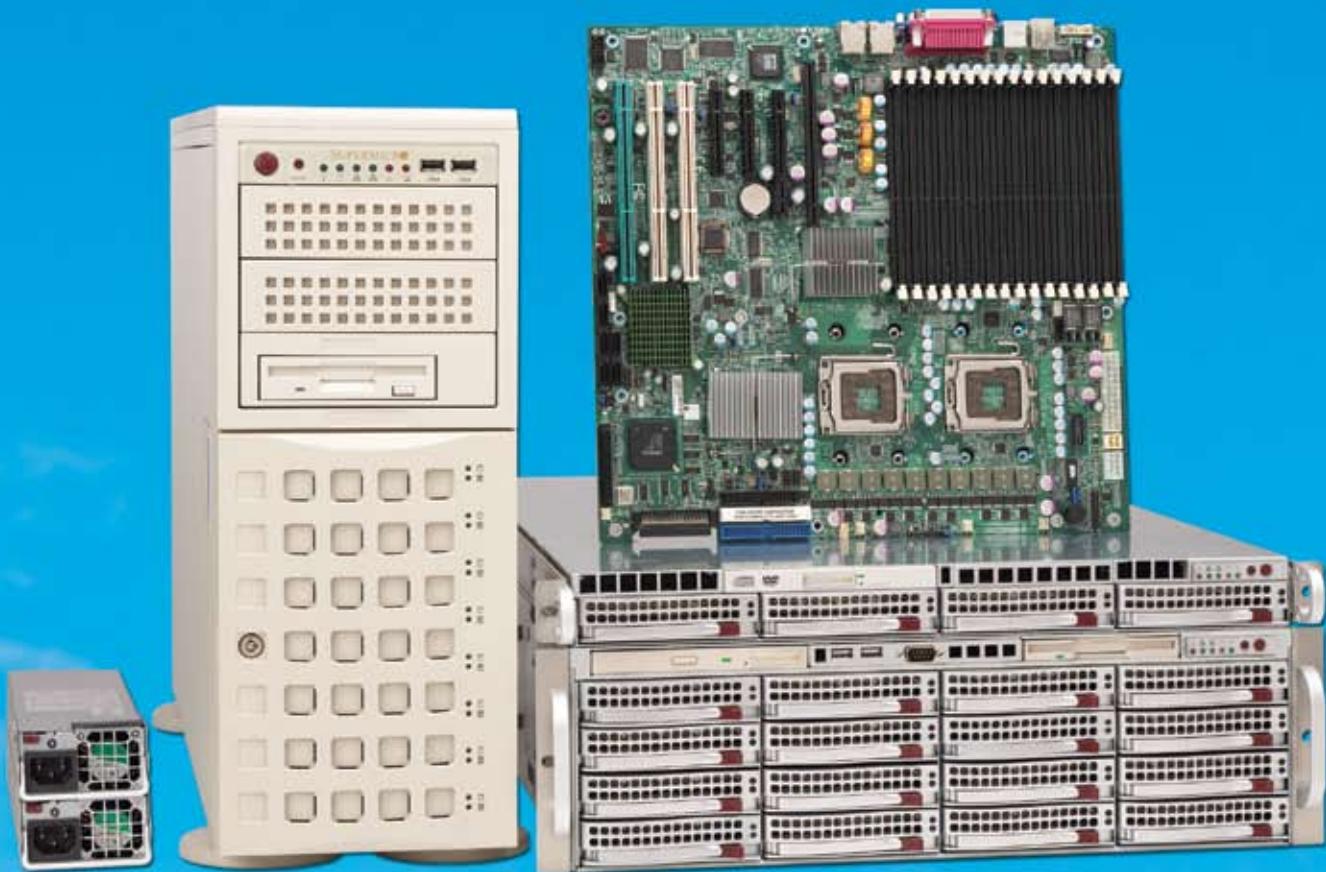
Server Building Block Solutions °

Dual, Quad Xeon, PD, P4 & Dual-core Serverboards
Enterprise Server Chassis
High-end Workstations
Redundant Power Supplies

100% redundant cooling design
SuperQuiet workstation configurations
Remote management features and more . . .

August 2006 Catalog

The Supermicro Advantage

With advanced product design and uncompromising quality control, Supermicro's expert engineers provide the industry with a wide range of products that feature high-performance, high reliability, and cost effective solutions. Designing first-to-market server platforms, Supermicro offers fully optimized functionality and compatibility for mission-critical applications. All of Supermicro's technologically advanced server solutions must pass a 100% strict validation process, which offers our customers peace of mind so they can concentrate on growing their business.

The Most Extensive Product Line in the Industry

Supermicro's engineering expertise has produced more than 250 Xeon/Pentium-based serverboards and over 500 optimized chassis. With our state-of-the art server solutions and outstanding technical support, customers can ramp up their business quickly and successfully with a reduced total cost of ownership (TCO)

Xeon 5100/5000 Sequence Server Solutions

Supermicro's industry-leading line of dual-core Xeon 5100 and 5000 Sequence processor-based server solutions feature a 1333MHz front-side bus and support up to 64GB of FBD (fully buffered DIMM) memory. These new dual-core solutions are packed with exceptional features and offer significantly better performance over their predecessors while consuming less power.

SAS: Advanced Storage Technology

Supermicro products are built to meet the demands of today's businesses for the efficient management of massive amounts of information. Supermicro's SAS (Serial Attached SCSI) products, including the SES2 (SCSI Enclosure Services 2) monitoring/management feature, are the first in the industry to offer complete solutions with multiple choices. SAS, the future of SCSI technology, provides superior performance (3 Gb/s per port; 8 ports per controller), advanced scalability (128 hard drives per controller), and better compatibility (compatible with SATA hard drives for a more cost-effective option), and no price premium when compared to SCSI solutions.

Low-Power Solutions

Power needs are ever increasing with the rise in computing performance. Enterprise data centers including HPC clusters and large server farms are consequently the ideal place for implementing innovative power conservation solutions and effective cooling systems to reap immediate benefits. Leading an industry migration to environmental consciousness and energy conservation, Supermicro is designing and producing highly efficient power supplies and cooling systems built around Dual Core Xeon high-performance, low-power processors to serve the needs of energy saving customers worldwide.

100% Redundant Cooling Systems

With Supermicro's patented 100% redundant cooling designs, systems can run continuously at 100% full speed, even when a fan failure occurs. Through a combination of expertly engineered high-performance fans and unique air-shrouds, our complete line of chassis offers superior performance and dramatically reduces the possibility of degraded performance due to thermal issues.

85% or More Power Supply Efficiency Designed for Lower TCO & Environmental Protection

Supermicro understands the challenges our customers are facing today in growing their businesses. Addressing this, Supermicro has penetrated the power supply design challenge to produce high-quality, high-performance solutions with efficiency ratings of 83% or higher. Supermicro solutions continue to outperform and outlast the competition providing the best technology investment available to customers worldwide.

Supermicro is RoHS Compliant

Supermicro is proud to rally a migration to server products that contain minimal amounts hazardous substances as required for environmental protection and recycling. With the RoHS Directive changing the electronics industry worldwide, Supermicro is producing environmentally safe products in compliance with industry standards that meet or exceed RoHS requirements and directives. Supermicro works tirelessly to ensure that all our products, components, and subassemblies meet or exceed applicable RoHS standards and specifications.

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Motherboards

Building Block Solutions

Chassis

Mobile Rack

Storage Adapters

Heatsink & Fan

Riser Card

Front Bezel

Server Remote Management

1U High-Availability & High-Performance Dual-Core Xeon 5100/5000 Server

Up to 64GB of ECC Fully-Buffered DIMM 667/533

1 Universal: PCI-X 133MHz or PCI-E x8

SIMSO socket (IPMI 2.0 w/virtual media & optional KVM-over-LAN)

AOC-SOZCR1 Zero-channel RAID support

Intel ESB2 for 6 SATA (3Gbps); RAID 0, 1, 5, 10

Adaptec 7902 dual-channel U320 SCSI (1 Int. & 1 Ext.); RAID 0, 1, 10

Dual-core Xeon 5100/5000 (Woodcrest/Dempsey) processors supported
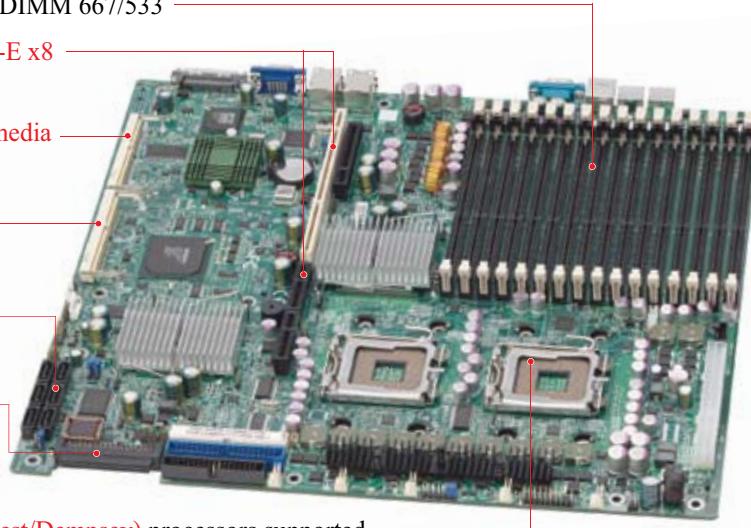
700W High-Efficiency power supply w/I^{2}C

4 high performance counter-rotating fans
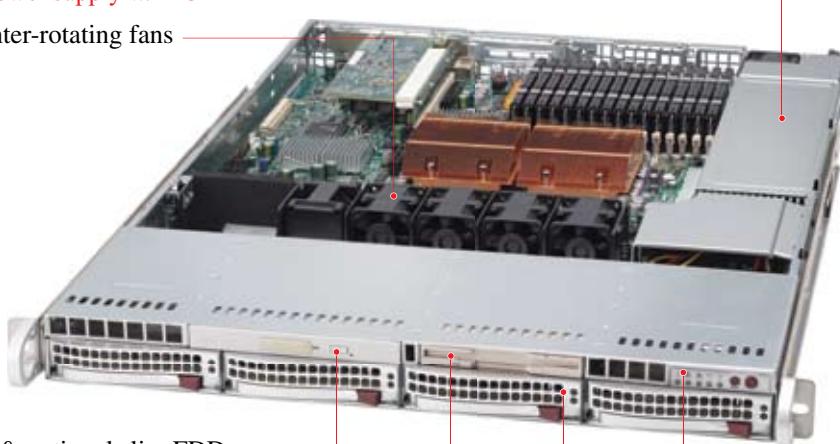
1 slim DVD-ROM drive & optional slim FDD
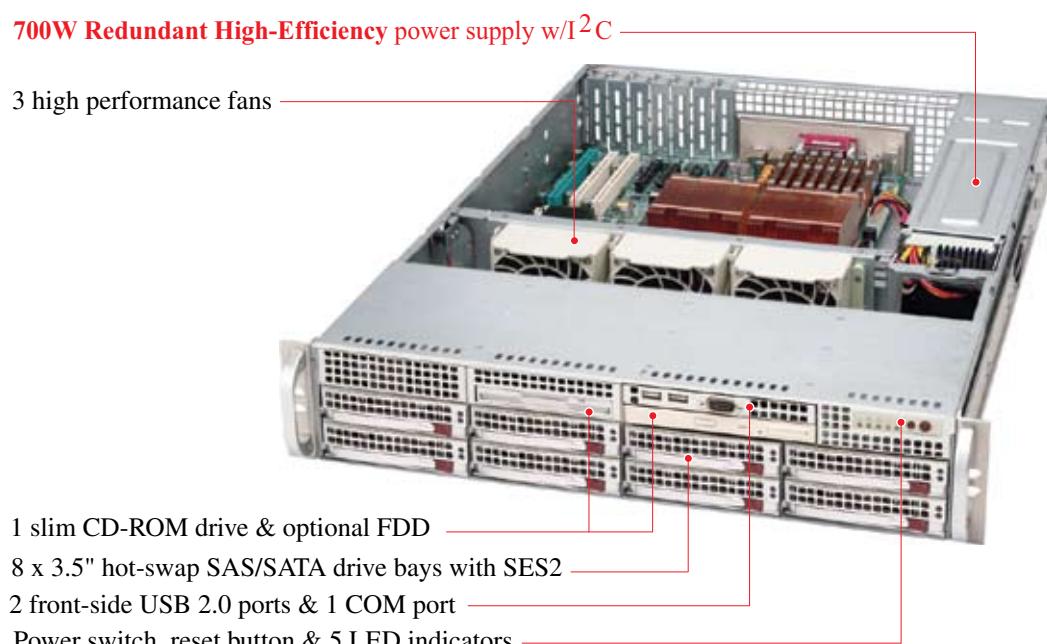
4 x 3.5" hot-swap SCA drive bays with SAF-TE compliance

Power switch, reset button & 5 LED indicators

SUPER● ® X7DBR-8+ Serverboard + SC815S-700 Chassis

With optimal performance in a high-density 1U chassis, the X7DBR-8+ serverboard features abundant FBD memory support with up to 16 memory modules for a maximum of 64GB of memory. Built as an enterprise building block solution, it offers an ideal solution for minimal-downtime cluster server systems. Combined with the new SC815S-700V chassis, a high-efficiency 700W power supply supports the maximum frequency of dual-core Xeon 5100/5000 sequence processors, one PCI-X or PCI-E expansion card, dual gigabit connectivity and more. Sophisticated management software, Supermicro Intelligent Management (SIM) and Super Doctor III, are included as an option to ensure that this great serverboard-chassis combination is simple to configure, deploy and manage on a day-to-day basis for continual performance and maximum data availability.

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2U High-Performance *SAS* w/SES2 Dual-Core Xeon 5100/5000 Server

Up to 32GB of ECC Fully-Buffered DIMM 667/533

SIMLP slot (IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN)

2 64-bit PCI-X 133MHz
1 64-bit PCI-X 100MHz
1 PCI-Express x4
2 PCI-Express x8

AOC-LPZCR2 Zero-channel RAID support

Intel ESB2 for 6 SATA (3Gbps); RAID 0, 1, 5, 10

Adaptec 9410 dual-channel 8 SAS/SATA; RAID 0, 1, 10

Dual-core Xeon 5100/5000 (Woodcrest/Dempsey) processors supported

700W Redundant High-Efficiency power supply w/I^{2}C

3 high performance fans

1 slim CD-ROM drive & optional FDD

8 x 3.5" hot-swap SAS/SATA drive bays with SES2

2 front-side USB 2.0 ports & 1 COM port

Power switch, reset button & 5 LED indicators

SUPER● X7DB3 Serverboard + SC825TQ-R700LP Chassis

Combining the high-performance X7DB3 serverboard with the new SC825TQ-R700LP- chassis, Supermicro has produced yet another optimized 2U server system. This new serverboard supports dual-core Xeon 5100/5000 sequence processors and Serial Attached SCSI (SAS) storage technology, which is backward compatible with industry-proven parallel SCSI software and middleware to protect existing SCSI investments and lower transition risks. The new 2U chassis improves upon the winning formula of the SC823 chassis and optimizes every aspect of interior space between the serverboard and the chassis without compromising superior cooling. The SC825TQ-R700LP chassis also features larger and more flexible interior space paired with additional hard drive bays allowing more system flexibility. Moreover, a high-efficiency 700-watt power supply with I^{2}C management powers the system.

4U High-Performance *16* FB-DIMM Dual-Core Xeon 5100/5000 Server

Up to 64GB of ECC Fully-Buffered DIMM 667/533

SIMLP slot (IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN)

2 64-bit PCI-X 133MHz
1 64-bit PCI-X 100MHz
1 PCI-Express x4
2 PCI-Express x8

AOC-LPZCR2 Zero-channel RAID support

Intel ESB2 for 6 SATA (3Gbps); RAID 0, 1, 5, 10

Adaptec dual-channel U320 SCSI RAID 0, 1, 10

Dual-core Xeon 5100/5000 (Dempsey/Woodcrest) processors supported
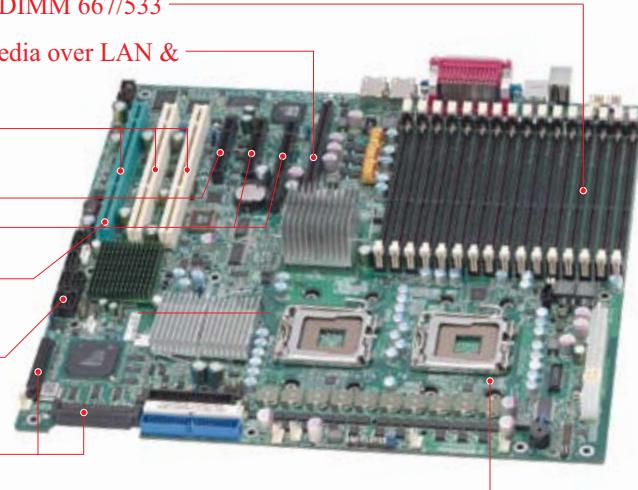
800W (1+1) Redundant High-Efficiency power supply w/I^{2}C

90° rotatable module includes 2 USB 2.0 ports 2 x 5.25" drive bays FDD drive, 6 LED indicators

100% cooling redundancy
3 x 8cm hot-swap cooling fans
2 x 8cm hot-swap exhaust fans & air shroud

Tool-less PCI/PCI-X expansion slots

8 x 3.5" dual-channel (4 + 4) hot-swap SCA drive bays with SAF-TE compliance
Washable air filter block dust particles

SUPER● ® X7DB8+ Serverboard + SC745S2-R800 Chassis

With performance, quality, availability and versatility in mind, Supermicro offers a quintessential server system that combines the X7DB8+ serverboard and the SC745S2 tower/4U server chassis. Powered by the latest dual core Xeon 5100/5000 sequence processors with up to 64GB of FBD memory support, this combination offers versatility in either a tower or 4U rackmount form factor and supports up to eight enterprise-class SCSI drives, provide exceptional storage performance. Designed with 100% cooling redundancy via a combination of high-performance fans and a custom-designed air-shroud, the probability of downtime or performance reduction is greatly reduced. Thanks to a potent, redundant 800W high-efficiency power supply, hot-plug fans and hot-swappable drive bays, this combination offers reliable performance, problem-free maintenance and peace of mind.

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Versatile Workstation Platform

Energy-Efficient Performance

SUPER● ® X7DAL-E

This mainstream versatile workstation/server board is based on Intel's high-bandwidth 5000X chipset with 1333MHz of FSB. It takes advantage of the FB-DIMM memory modules for faster response and greater memory capacity for data-intensive applications. Moreover, the dual-core Xeon 5100 sequence Xeon processors provide unparalleled computing power without demanding energy requirements, which is ideal for workstation environments. Another great feature of this solution is the Universal I/O or UIO implementation. The UIO slot allows users to have the choice over the system's storage applications, in SAS, SCSI, or SATA without sacrificing a PCI slot for add-on cards. Combined with the ability to facilitate dual PCI-E x16 expansions, the X7DAL-E is ideal for graphics intensive applications, movie rendering and other scientific / engineering applications that require a great deal of I/O bandwidth and computing power.

SUPER● ® PDSME+

Supporting the Dual-Core Intel® Xeon® processor 3000 sequence/Core 2 Duo processors, the UP serverboard PDSME+ provides outstanding computational performance and yet offers future upgradeability to a quad-core (Kentsfield) processor. The1066 MHz system bus (also supports 800 or 533 MHz) with the support for up to 8GB of un-buffered DDR2-667/533 memory ensures the maximum memory bandwidth and data transfer rate. With four PCI-X 133/100 and two PCI-Express x8/x4 expansion slots, the PDSME+ also supports a Supermicro Intelligent Management card for IPMI 2.0 server remote management with Virtual Media-over-LAN and KVM-over-LAN. Featuring four SATA ports (3 Gb/s) with RAID 0, 1, 5 and 10, and dual Intel PCI-Express Gigabit LAN ports while providing excellent value with rich features and high performance, PDSME+ is also a fully RoHS (6/6) compliant earth-friendly serverboard.

Key Features:
✔ Dual-core Xeon 5100/5000 Sequence
✔ Intel 5000X chipset
✔ 1333/1066/667MHz system bus
✔ 24GB ECC FB-DIMM DDRII 667/533 SDRAM
✔ 1 PCI-Express x16
   1 PCI-Express x4 (in PCI-E x16 slot)
   2 PCI-X 133MHz
   2 PCI & 1 UIO
✔ Dual Gigabit Ethernet ports
✔ Intel ESB2 for 6 SATA ports (3 Gbps)
✔ AC"97 Audio
✔ Eight USB 2.0 ports

Key Features:
✔ Dual-core Xeon 3000 & Core 2 Duo processor E6000/E4000 Sequence
✔ Intel E3010 chipset
✔ 1066/800/533MHz system bus
✔ 8GB Unb. ECC, non-ECC DDRII 667/533 SDRAM
✔ 2 PCI-X 133MHz, 2 PCI-X 100MHz
   1 PCI-Express x8
   1 PCI-Express x4
✔ Dual PCI-Express Gigabit Ethernet ports
✔ Intel ICH7R for 4 SATA ports (3 Gbps)
✔ ATI ES1000 16MB PCI graphics
✔ IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN

	Dual-core	**Dual-core**	**Dual-core**	**Dual-core**	**Dual-core**
MODEL	X7DB8+	X7DBE+	X7DB8/ X7DBE	X7DB8-X/ X7DBE-X	X7DB3
Processor	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)
Chipset/ System Bus	Intel 5000P 1333/1066/667MHz	Intel 5000P 1333/1066/667MHz	Intel 5000P 1333/1066/667MHz	Intel 5000P 1333/1066/667MHz	Intel 5000P 1333/1066/667MHz
Form Factor	Ext. ATX 13.68" x 13"	Ext. ATX 13.68" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"
Optimized Chassis	2U: SC825S2-R700LP SC836S2-R800 4U/Tower: SC745S2-R800 SC745S2-700	2U: SC825TQ-R700LP 3U: SC836TQ-R800 4U/Tower: SC745TQ-R800 SC745TQ-700	X7DB8 2U: SC825S2-R700LP, SC825S2-560LP SC823S-550LP 3U: SC933S1/SC933S2-R760 SC836S2-R800,SC833S/SC833S2-R760 SC833S/SC833S2-550 4U/Tower: SC745S2-R800,SC745S2-700 SC743S1/SC743S2-R760 SC743S1/SC743S2-650 SC743S1-645* (*Fan-0091 required) X7DBE 2U: SC825TQ-R700LP, SC825TQ-560LP SC823i/SC823T-550LP 3U: SC833T-550/R760, SC933T-R760 SC836TQ-R800 4U/Tower: SC745TQ-R800,SC745TQ-700 SC743i/SC743T-650 SC743i/SC743T/SC743TQ-R760 SC743T/SC743i-645* (*Fan-0091 required)	X7DB8-X 2U: SC825S2-R700LP, SC825S2-560LP SC823S-550LP 3U: SC933S1/SC933S2-R760 SC836S2-R800,SC833S/SC833S2-R760 SC833S/SC833S2-550 4U/Tower: SC745S2-R800,SC745S2-700 SC743S1/SC743S2-R760 SC743S1/SC743S2-650 SC743S1-645* (*Fan-0091 required) X7DBE-X 2U: SC825TQ-R700LP, SC825TQ-560LP SC823i/SC823T-550LP 3U: SC833T-550/R760, SC933T-R760 SC836TQ-R800 4U/Tower: SC745TQ-R800,SC745TQ-700 SC743i/SC743T-650 SC743i/SC743T/SC743TQ-R760 SC743T/SC743i-645* (*Fan-0091 required)	2U: SC825TQ-R700LP SC825TQ-560LP SC823T-550LP 3U: SC836TQ-R800 SC836E1/SC836E2-R800, SC833T-550/R760 SC933E1/SC933E2/SC933T-R760 4U/Tower: SC745TQ-R800 SC745TQ-700 SC743T-650 SC743T/SC743TQ-R760
Memory Capacity & Slots	64GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 16 DIMMs	64GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 16 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs
Expansion Slots	2 PCI-Express x8 1 PCI-Express x4 2 PCI-X 133MHz 1 PCI-X 100MHz	2 PCI-Express x8 1 PCI-Express x4 2 PCI-X 133MHz 1 PCI-X 100MHz	2 PCI-Express x8 1 PCI-Express x4 2 PCI-X 133MHz 1 PCI-X 100MHz	3 PCI-X 133MHz 3 PCI-X 100MHz	2 PCI-Express x8 1 PCI-Express x4 2 PCI-X 133MHz 1 PCI-X 100MHz
Onboard SCSI/ SATA/SAS/ SATA RAID	Adaptec 7902W dual channel Ultra320 SCSI controller w/ host RAID 0, 1, 10 Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10	Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10	Adaptec 7902W dual channel Ultra320 SCSI controller w/ host RAID 0, 1, 10 (X7DB8 only) Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10	Adaptec 7902W dual channel Ultra320 SCSI controller w/ host RAID 0, 1, 10 (X7DB8-X only) Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10	Adaptec 9410 controller for 8 SAS/SATA; RAID 0, 1,10 Intel ESB2 for SATA (3 Gbps) RAID 0, 1, 5, 10
Zero Channel RAID (ZCR) card support	AOC-LPZCR1 or AOC-LPZCR2	N/A	AOC-LPZCR1 or AOC-LPZCR2 (X7DB8 only)	AOC-LPZCR1 or AOC-LPZCR2 (X7DB8-X only)	AOC-LPZCR2
Onboard LAN	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller
Onboard VGA	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller
Built-in EIDE USB ports	ATA100/ up to 5 USB 2.0 ports	ATA100/ up to 5 USB 2.0 ports	ATA100/ up to 5 USB 2.0 ports	ATA100/ up to 5 USB 2.0 ports	ATA100/ up to 5 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.
Manageability	SIMLP slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMLP slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMLP slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMLP slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMLP slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM & 3-pin fan speed control & overheat LED	4-pin PWM & 3-pin fan speed control & overheat LED	4-pin PWM & 3-pin fan speed control & overheat LED	4-pin PWM & 3-pin fan speed control & overheat LED	4-pin PWM & 3-pin fan speed control & overheat LED
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss,SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss,SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM

Optimized Dempsey/Woodcrest Chassis

SUPER● SC825TQ-R700RCV/R700LPV
SUPER● SC825S2-R700RCV/R700LPV
- 8 hot-swap drive bays
- Butterfly riser card
- Redundant 700W power supply
- High-Efficiency Power

SUPER● SC836E1/SC836E2-R800V
SUPER● SC836S2/SC836TQ-R800V
- 16 hot-swap drive bays
- 100% cooling redundancy
- Redundant 800W power supply
- High-Efficiency Power

SUPER● SC745S2-R800/SC745TQ-R800
SUPER● SC745S2-700/SC745TQ-700
- 8 hot-swap drive bays
- Tower/4U rackmount server chassis
- 100% cooling redundancy
- Redundant 800W/700W power supply
- High-Efficiency Power

Key Features

Model	X7DB8+/X7DBE+	X7DB8/X7DBE/X7DB8-X/X7DBE-X	X7DB3	Fan Setting
SC823 Series	N/A	**SC823S-550LP** (X7DB8 & X7DB8-X) **SC823T/SC823i-550LP** (X7DBE & X7DBE-X) * 6 hot-swap drive bays (SC823S/SC823T) * 6 fixed drive bays (SC823i) * 550W * Passive heatsink: SNK-P0018	**SC823T-550LP** * 6 hot-swap drive bays * 550W * Passive heatsink: SNK-P0018	3-pin Server
SC825 Series	**SC825S2-R700LPV** (X7DB8+) **SC825TQ-R700LPV** (X7DBE+) * 8 hot-swap drive bays * Redundant 700W * Passive heatsink: SNK-P0018	**SC825S2-R700LPV/560LPV** (X7DB8 & X7DB8-X) **SC825TQ-R700LPV/560LPV** (X7DBE &X7DBE-X) * 8 hot-swap drive bays * Redundant 700W/560W * Passive heatsink: SNK-P0018	**SC825TQ-R700LPV** **SC825TQ-560LPV** * 8 hot-swap drive bays * Redundant 700W/560W * Passive heatsink: SNK-P0018	3-pin Server
SC833S Series	N/A	**SC833S-R760/550** (X7DB8 & X7DB8-X) **SC833S2-R760/550** (X7DB8 & X7DB8-X) **SC833T-R760/550** (X7DBE & X7DBE-X) * 100% Cooling redundancy * 8 hot-swap drive bays * Triple redundant 760W/550W * Passive heatsink: SNK-P0018	**SC833T-R760/550** * 100% Cooling redundancy * 8 hot-swap drive bays * Triple redundant 760W/550W * Passive heatsink: SNK-P0018	3-pin Server
SC836 Series	**SC836S2-R800V** (X7DB8+) **SC836TQ-R800V** (X7DBE+) * 100% Cooling redundancy * 16 hot-swap drive bays * High power efficiency * Redundant 800W * Add-on card required for 16 drives (SC836TQ) * Passive heatsink: SNK-P0018	**SC836S2-R800V** (X7DB8 & X7DB8-X) **SC836TQ-R800V** (X7DBE & X7DBE-X) * 100% Cooling redundancy * 16 hot-swap drive bays * High power efficiency * Redundant 800W * Add-on card required for 16 drives (SC836TQ) * Passive heatsink: SNK-P0018	**SC836E1/SC836E2-R800V, SC836TQ-R800V** * 100% Cooling redundancy * 16 hot-swap drive bays * High power efficiency * Redundant 800W * Add-on card required for 16 drives (SC836TQ) * Passive heatsink: SNK-P0018	3-pin Server
SC933 Series	N/A	**SC933S1/SC933S2-R760** (X7DB8 & X7DB8-X) **SC933T-R760** (X7DBE & X7DBE-X) * 100% Cooling redundancy * 14 hot-swap drive bays * 15 hot-swap drive bays (SC933T) * Triple redundant 760W * Add-on card required (SC933T) * Passive heatsink: SNK-P0018	**SC933E1/SC933E2/SC933T-R760** * 100% Cooling redundancy * 15 hot-swap drive bays * Triple redundant 760W * Add-on card required for SC933T-R760 * Passive heatsink: SNK-P0018	3-pin Server
SC743 Series	N/A	**SC743S1-R760/650/645*** (X7DB8 & X7DB8-X) **SC743S2-R760/650** (X7DB8 & X7DB8-X) **SC743TQ-R760** (X7DBE & X7DBE-X) **SC743T-R760/650/645*** (X7DBE & X7DBE-X) **SC743i-R760/650/645*** (X7DBE & X7DBE-X) * 100% Cooling redundancy * 8 hot-swap drive bays * 8 fixed drive bays (SC743i) * Triple redundant 760W/650W/645W * Fan-0091 required for SC743T/SC743i/SC743S1-645 * Passive heatsink: SNK-P0018	**SC743T-R760/SC743TQ-R760, SC743TQ-650** * 100% Cooling redundancy * 8 hot-swap drive bays * Triple redundant 760W/650W * Passive heatsink: SNK-P0018	3-pin Server & 4-pin Workstation for SC743T/ SC743S1/ SC743i-645 only
SC745 Series	**SC745S2-R800/700** (X7DB8+) **SC745TQ-R800/700** (X7DBE+) * 100% cooling redundancy * 8 hot-swap drive bays * High power efficiency * Redundant 800W/700W * Passive heatsink: SNK-P0018	**SC745S2-R800/700** (X7DB8 & X7DB8-X) **SC745TQ-R800/700** (X7DBE & X7DBE-X) * 100% cooling redundancy * 8 hot-swap drive bays * High power efficiency * Redundant 800W/700W * Passive heatsink: SNK-P0018	**SC745TQ-R800/700** * 100% cooling redundancy * 8 hot-swap drive bays * High power efficiency * Redundant 800W/700W * Passive heatsink: SNK-P0018	3-pin Server

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	Dual-core X7DBR-8+/ X7DBR-i+	**Dual-core** X7DBR-8/ X7DBR-i	**Dual-core** X7DBR-3/ X7DBR-E	**Dual-core** X7DBP-8/ X7DBP-i	**Dual-core** X7DBX-8/ X7DBX-i
MODEL	X7DBR-8+/ X7DBR-i+	X7DBR-8/ X7DBR-i	X7DBR-3/ X7DBR-E	X7DBP-8/ X7DBP-i	X7DBX-8/ X7DBX-i
Processor	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)
Chipset/ System Bus	Intel 5000P 1333/1066/667MHz	Intel 5000P 1333/1066/667MHz	Intel 5000P 1333/1066/667MHz	Intel 5000P 1333/1066/667MHz	Intel 5000P 1333/1066/667MHz
Form Factor	Ext. ATX 13.68" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Proprietary 11.23" x 16.34"	Proprietary 16.34" x 11.24"
Optimized Chassis	X7DBR-8+ 1U: SC815S-700 SC815S-560 2U: SC825S2-R700RC X7DBR-i+ 1U: SC815TQ-700 SC815TQ-560 2U: SC825TQ-R700RC	X7DBR-8 1U: SC815S-700 2U: SC815S-560/520 2U: SC825S2-R700RC X7DBR-i 1U: SC815TQ-700 SC815TQ-560/520 SC812L-520 2U: SC825TQ-R700RC	X7DBR-3 1U: SC815TQ-560 SC815TQ-R650 SC815TQ-700 SC815TQ-520 2U: SC825TQ-R700RC X7DBR-E 1U: SC812L-520	X7DBP-8 1U: SC816S-R700, SC815S-700 X7DBP-i 1U: SC816A-R700, SC816A-700	X7DBX-8 1U: SC819S-700 (OEM only) X7DBX-i 1U: SC819TQ-700 (OEM only)
Memory Capacity & Slots	64GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 16 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs
Expansion Slots	1 Universal slot: PCI-X 133MHz or PCI-E x8 or PCI-E x8 1 PCI-Express x8 (for 2U)	1U: 1 PCI-X 100MHz or PCI-E x8 or 1 PCI-X 100MHz or PCI-E x8 2U: 1 PCI-X 100 & 2 PCI-E x8 or 2 PCI-X 133 & 1 PCI-X 100 or 1 PCI-X 100 & 2 PCI-E x4	1U: 1 PCI-X 100MHz or PCI-E x8 or 1 PCI-X 100MHz or PCI-E x8 2U: 1 PCI-X 133 & 2 PCI-E x8 or 3 PCI-X 133 or 1 PCI-X 100 & 2 PCI-E x8	1 Universal: PCI-X 133MHz or PCI-E x8 1 Universal: PCI-X 133MHz or PCI-E x8	1 Universal: PCI-X 133MHz or PCI-E x8 1 Universal: PCI-X 133MHz or PCI-E x4
Onboard SCSI/ SATA/SAS/ SATA RAID	Adaptec 7902W dual-channel Ultra320 SCSI controller w/ host RAID 0,1, 10 (X7DBR-8+ only) Intel ESB2 for 6 SATA (3 G bps) RAID 0, 1, 5, 10	Adaptec 7902W dual-channel Ultra320 SCSI controller w/ host RAID 0, 1, 10 (X7DBR-8 only) Intel ESB2 for 6 SATA (3 G bps) RAID 0, 1, 5, 10	Adaptec 9410 controller for 8 SAS/SATA (4 Int. & 4 Ext.) RAID 0, 1, 10 (X7DBR-3 only) Intel ESB2 for SATA (3 Gbps) RAID 0, 1, 5, 10	Adaptec 7902W dual-channel Ultra320 SCSI controller w/ host RAID 0, 1, 10 (X7DBP-8 only) Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10	Adaptec 7902W dual-channel Ultra320 SCSI controller w/ host RAID 0, 1, 10 (X7DBX-8 only) Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10
Zero Channel RAID (ZCR) card support	AOC-2OZCR1 (X7DBR-8+ only)	AOC-LPZCR2 or AOC-LPZCR1 (X7DBR-8 only)	AOC-LPZCR2 (X7DBR-3 only)	AOC-LPZCR1 or AOC-LPZCR2 (X7DBP-8 only)	AOC-LPZCR1 or AOC-LPZCR2 (X7DBX-8 only)
Onboard LAN	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller
Onboard VGA	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller
Built-in EIDE USB ports	ATA/100 up to 5 USB 2.0 port	ATA/100 up to 5 USB 2.0 port	ATA/100 up to 5 USB 2.0 port	ATA/100 up to 5 USB 2.0 port	ATA/100 up to 5 USB 2.0 port
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.
Manageability	SIMBO socket (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMBO socket (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMBO socket (IPMI 2.0)[†] Watch Dog Super●Doctor III	SIMLU-3B slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMLU-3B slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 5 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 5 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 5 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V +5V, +12V, -12V, +5V standby and total of 10 6-pin proprietary fan headers with 10-fans status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V +5V, +12V, -12V, +5V standby and total of 10 6-pin proprietary fan headers with 10-fans status, supports system management utility, chassis intrusion header
Thermal Control	3-pin fan speed control & overheat LED	3-pin fan speed control & overheat LED	3-pin fan speed control & overheat LED	Proprietary fans @ overheat LED indication	Proprietary fans @ overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss/SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss/SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss/SDDC support, TM2 @ CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 @ CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 @ CPU thermal trip support for processor protection
BIOS	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM

[†] See page 72, 73 for detail.

Optimized Dempsey/Woodcrest Chassis

SUPER●® SC815S-700/R650
SC815TQ-700/R650
- 4 hot-swap drive bays
- 700W cold-swap power supply
- 650W redundant power supply
- High-Efficiency Power

SUPER●® SC819S-700/SC819TQ-700
- 2U in 1U ™
- 1U with 4 expansion slots
- 700W cold-swap power supply
- High-Efficiency Power
- 3 hot-swap drive bays

SUPER●® SC816S-(R)700/SC816A-(R)700
- 1U with 2 expansion slots
- Redundant 700W/700W
- High-Efficiency Power
- 4 hot-swap drive bays

SUPER●® SC813S-520/SC813TQ-520
- 4 hot-swap SAS/SATA drive bays
- High Efficiency Power
- 520W

SUPER●® SC812L-520
- 3 fixed SAS/SATA drive bays
- 520W power supply
- 2 PCI-X/E slots
- Optimized for clustering

SUPER●® SC825TQ-R700RC/R700LP
SUPER●® SC825S2-R700RC/R700LP
- 8 hot-swap drive bays
- Butterfly riser card
- Redundant 700W power supply
- High-Efficiency Power

Key Features
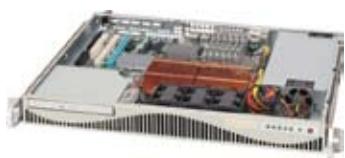
Model	X7DBR-8+/X7DBR-i+	X7DBR-8/X7DBR-i	X7DBR-3/X7DBR-E	X7DBP-8/X7DBP-i	X7DBX-8/X7DBX-i	Fan Setting
SC819 Series	N/A	N/A	N/A	N/A	**SC819S-700/SC819TQ-700** * 2U in 1U ™ * 1U with 4 Expansion slots support * High-Efficiency 700W * 3 hot-swap drive bays * Passive heatsink SNK-P0017	3-pin Server
SC816 Series	N/A	N/A	N/A	**SC816S-(R)700** (X7DBP-8) **SC816A-(R)700** (X7DBP-i) * High-Efficiency Power Supply * Redundant 700W/700W	N/A	3-pin Server
SC815 Series	**SC815S-700/560** (X7DBR-8+) **SC815TQ-700/560** (X7DBR-i+) * 4 hot-swap drive bays * High-efficiency power supply * 700W cold-swap/560W * Passive heatsink: SNK-P0017	**SC815S-700/560** (X7DBR-8) **SC815TQ-700/560** (X7DBR-i+) * 4 hot-swap drive bays * High-efficiency power supply * 700W cold-swap/560W * Passive heatsink: SNK-P0017	**SC815TQ-700/R650/560** * 4 hot-swap drive bays * High-efficiency power supply * 700W/redundant 650/560W * Passive heatsink SNK-P0017	N/A	N/A	3-pin Server
SC813 Series	N/A	**SC813S-520** (X7DBR-8) **SC813TQ-520** (X7DBR-i+) * 4 hot-swap drive bays * 520W * Passive heatsink: SNK-P0017	**SC813TQ-520** * 4 hot-swap drive bays * 520W * Passive heatsink SNK-P0017	N/A	N/A	3-pin Server
SC812L Series	N/A	**SC812L-520** (X7DBR-i) * 3 fixed drive bays * 520W * Passive heatsink: SNK-P0017	**SC812L-520** (X7DBR-E) * Low-cost solution * 3 fixed drive bays * 520W * Passive heatsink SNK-P0017	N/A	N/A	3-pin Server
SC825 Series	**SC825S2-R700RC** (X7DBR-8+) **SC825TQ-R700RC** (X7DBR-i+) * 8 hot-swap drive bays * Butterfly riser cards * High-efficiency power supply * Redundant 700W * Passive heatsink: SNK-P0018	**SC825S2-R700RC** (X7DBR-8) **SC825TQ-R700RC** (X7DBR-i) * 8 hot-swap drive bays * Butterfly riser cards * High-efficiency power supply * Redundant 700W * Passive heatsink: SNK-P0018	**SC825TQ-R700RC** * 8 hot-swap drive bays * Butterfly riser cards * High-efficiency power supply * Redundant 700W * Passive heatsink: SNK-P0018	N/A	N/A	3-pin Server

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MODEL	X7DVL-E	X7DVA-8/ X7DVA-E	X7DA8	X7DAE	X7DAL-E
Processor	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)	Dual-core Xeon 5100/5000 Sequence (LGA771)
Chipset/ System Bus	Intel 5000V 1333/1066/667MHz	Intel 5000V 1333/1066/667MHz	Intel 5000X 1333/1066/667MHz	Intel 5000X 1333/1066/667MHz	Intel 5000X 1333/1066/667MHz
Form Factor	ATX 12" x 10"	ATX 12" x 10"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	ATX 12" x 10"
Optimized Chassis	Mini 1U: SC512L-520/260* (*Pin Loss 1U (Windows only)) 1U: SC813S-550 2U: SC825TQ-R700LP/560LP SC823T-653LP 4U/Tower: SC742T-R760 SC742i-645 (*Win 8081 required) Mid-tower: SC733TQ/SC733-645 SC733Q-647 (*Pin SanJian 1U (Windows only)	X7DVA-8 1U: SC815-550 2U: SC825S-R700LP/560LP,SC825-560LP SC823T-R550/650 X7DVA-E Mini 1U: SC512F-520/260* ***Windows only 1U: SC813-520 2U: SC825TQ-R700LP/560LP SC823T-550LP 4U/Tower: SC743Q-R760, SC743 TR900/650 SC743S/SC743T-645* (*Windows required) Mid-tower: SC733S/SC733T-645* (*Pin SanJian (Windows only)	2U: SC825S-R700LP/560LP, SC825-560LP 3U: SC835TQ/SC835S-R800, SC836-R800 SC836S/SC836TQ-R800 4U/Tower: SC743S-R800,SC743S-760 SC743S/SC743TQ-R800 SC743S/SC743TQ-650 SC743S/SC743TQ-8.5V SC743S-640* (*Win 8081 required)	2U: SC825TQ-R700LP/560LP SC825-560LP 3U: SC835TQ-R800,SC835S-R800 SC836-R800 4U/Tower: SC743TQ-R800 SC743S-760 SC743S/SC743S-650 SC743S/SC743S-8.5V SC743TQ-R800 SC743S/SC743S-643* (*Win 8081 required)	2U: SC835TQ/SC835S-R800, SC835TQ-R800 3U: SC835TQ-R800 4U/Tower: SC743TQ-R800 SC743TQ-760 SC743S/SC743 TR800 SC743S/SC743 TR650 SC743 TQ-R700 (*Win 8081 required) Mid-tower: SC733TQ/SC733T-645* (*Pin SanJian (Windows only)
Memory Capacity & Slots	24GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 6 DIMMs	24GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 6 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs	32GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 8 DIMMs	24GB ECC Fully-Buffered DIMM (FBD) DDRII 667/533 in 6 DIMMs
Expansion Slots	1 PCI-Express x8 1 PCI-Express x4 (in x8 slot) 2 PCI-X 133MHz 2 PCI 33MHz	1 PCI-Express x8 1 PCI-Express x4 (in x8 slot) 2 PCI-X 100MHz 1 PCI 33MHz	1 PCI-Express x16 1 PCI-Express x4 (in x16 slot) 2 PCI-X 133MHz 1 PCI-X 100MHz 1 PCI 33MHz	1 PCI-Express x16 1 PCI-Express x4 (in x16 slot) 2 PCI-X 133MHz 1 PCI-X 100MHz 1 PCI 33MHz	1 PCI-Express x16 1 PCI-Express x4 (in x16 slot) 2 PCI-X 133MHz 2 PCI 33MHz & 1 UIO
Onboard SCSI/ SATA/SAS/ SATA RAID	Intel ESB2 for 6 SATA (3.0 Gbps) RAID 0, 1, 5, 10	Adaptec 7902W dual channel Ultra320 SCSI controller w/ host RAID 0, 1, 10 (X7DVA-8 only) Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10	Adaptec 7902W dual channel Ultra320 SCSI controller w/ host RAID 0, 1, 10 Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10	Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10	Intel ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10
Zero Channel RAID (ZCR) card support	N/A	AOC-LPZCR1 or AOC-LPZCR2 (X7DVA-8 only)	AOC-LPZCR1 or AOC-LPZCR2	N/A	N/A
Onboard LAN	Dual LAN w/ Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/ Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller	Dual LAN w/Intel 82563EB Gigabit Ethernet Controller
Onboard VGA	ATI ES1000 16MB PCI graphics controller	ATI ES1000 16MB PCI graphics controller	N/A	N/A	N/A
Built-in EIDE USB ports	ATA/100 up to 6 USB 2.0 port	ATA/100 up to 6 USB 2.0 port	ATA100/ up to 6 USB 2.0 ports	ATA100/ up to 6 USB 2.0 ports	ATA100/ up to 8 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound
Manageability	SIMLC slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMLP slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMLP slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIMLP slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 6 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 6 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 6 fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM fan speed control & overheat LED	4-pin PWM fan speed control & overheat LED	4-pin PWM & 3-pin fan speed control & overheat LED	4-pin PWM & 3-pin fan speed control & overheat LED	4-pin PWM & 3-pin fan speed control & overheat LED
Other Features	ACPI power management, internal/external modem, ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem, ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM	Phoenix 8Mb Flash ROM

[†] See page 72, 73 for detail

SUPER●® SC512F-520/SC512F-280
- 14" depth small form factor 1U
- 1 x 3.5" fixed drive bays
- 520W power supply
- 280W power supply (woodcrest only)

SUPER●® SC833S/SC833S2/SC833T-R760
SC836S2/SC836T-R800
- 8 hot-swap SCA bays (SAF-TE compliant)
- Triple redundant 760W power w/ I²C mgt.
- 6 Hot-swap fans for 100% cooling redundancy
- Air-shroud for better cooling
- 3U x 25.5"
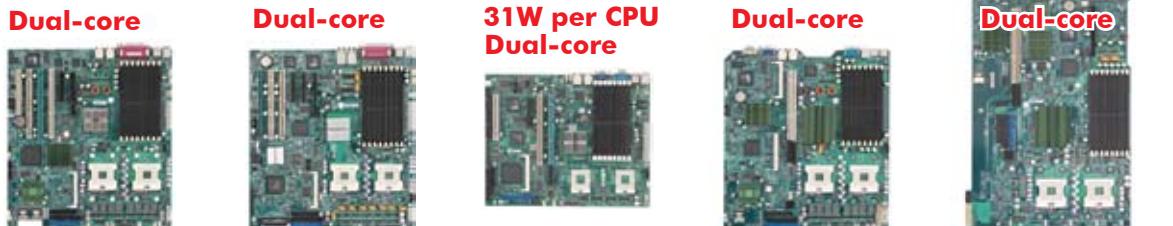
SUPER●® SC743S2-R760/650/645
- 8 hot-swap SCA bays
- Triple redundant 760W power w/I²C mgt. (R760 only)
- 6 Hot-swap fans for 100% cooling redundancy
- Tool-less PCI & rotatable drive bay module
- 4U x 25.5"/Tower

Key Features

Model	X7DVL-E	X7DVA-8/X7DVA-E	X7DA8	X7DAE	X7DAL-E	Fan Setting
SC811 Series	**SC811T-520** * 2 hot-swap drive bays * 520W * Passive heatsink SNK-P0017	**SC811S-520** (X7DVA-8) **SC811T-520** (X7DVA-E) * 2 hot-swap drive bays * 520W * Passive heatsink SNK-P0017	N/A	N/A	N/A	3-pin Server
SC512 Series	**SC512F-520/280** * Cost-effective solution * 520W/280W(Woodcrest only) * Passive heatsink SNK-P0017	**SC512F-520/280** (X7DVA-E) * Cost-effective solution * 520W/280W(Woodcrest only) * Passive heatsink SNK-P0017	N/A	N/A	N/A	3-pin Server
SC825 Series	**SC825TQ-R700LP/560LP** * 8 hot-swap drive bays * High-efficiency power supply * Redundant 700W/560W * Passive heatsink SNK-P0018	**SC825S2-R700LP/560LP**(X7DVA-8) **SC825TQ-R700LP/560LP**(X7DVA-E) * 8 hot-swap drive bays * High-efficiency power supply * Redundant 700W/560W * Passive heatsink SNK-P0018	**SC825S2-R700LP/560LP** * 8 hot-swap drive bays * High-efficiency power supply * Redundant 700W/560W * Passive heatsink SNK-P0018	**SC825TQ-R700LP/560LP** * 8 hot-swap drive bays * High-efficiency power supply * Redundant 700W/560W * Passive heatsink SNK-P0018	N/A	3-pin Server
SC823 Series	**SC823T-550LP** * 6 hot-swap drive bays * 550W * Passive heatsink SNK-P0018	**SC823S-550LP** (X7DVA-8) **SC823T-550LP** (X7DVA-E) * 6 hot-swap drive bays * 550W * Passive heatsink SNK-P0018	**SC823S-550LP** * 6 hot-swap drive bays * 550W * Passive heatsink SNK-P0018	**SC823-i/SC823T-550LP** * 6 hot-swap drive bays * 550W * Passive heatsink SNK-P0018	N/A	3-pin Server
SC833 Series	N/A	N/A	**SC833S/SC833S2-R760** **SC833S/SC833S2-550** * 100% cooling redundancy * 8 hot-swap drive bays * Triple redundant 760W/550W * Passive heatsink: SNK-P0018	**SC833T-R760/550** * 100% cooling redundancy * 8 hot-swap drive bays * Triple redundant 760W/550W * Passive heatsink: SNK-P0018	**SC833T-R760/550** * 100% cooling redundancy * 8 hot-swap drive bays * Triple redundant 760W/550W * Passive heatsink: SNK-P0018	3-pin Server
SC836 Series	N/A	N/A	**SC836S2-R800** * 100% cooling redundancy * 16 hot-swap drive bays * High-Efficiency power supply * Redundant 800W * Passive heatsink: SNK-P0018	**SC836T-R800** * 100% cooling redundancy * 16 hot-swap drive bays * High-Efficiency power supply * Redundant 800W * Passive heatsink: SNK-P0018	**SC836T-R800** * 100% cooling redundancy * 16 hot-swap drive bays * High-Efficiency power supply * Redundant 800W * Passive heatsink: SNK-P0018	3-pin Server
SC933 Series	N/A	N/A	**SC933S1/SC933S2-R760** * 100% cooling redundancy * 16 hot-swap drive bays * Triple Redundant 760W * Passive heatsink: SNK-P0018	**SC933T-R760** * 100% cooling redundancy * 16 hot-swap drive bays * Triple Redundant 760W * Passive heatsink: SNK-P0018	**SC933T-R760** * 100% cooling redundancy * 16 hot-swap drive bays * Triple Redundant 760W * Passive heatsink: SNK-P0018	3-pin Server
SC743 Series	**SC743TQ-R760/SC743T-650** **SC743T/SC743i-645*** * 8 hot-swap drive bays (SC743TQ/SC743T) * 8 fixed drive bays (SC743i) * Triple redundant 760W/650W/ 645W low-noise control * Fan-0091 required for SC743T/SC743i-645) * Passive heatsink SNK-P0018	**SC743S2-R760/650** (X7DVA-8) **SC743S1-R760/650/645*** (X7DVA-8) **SC743TQ-R760** (X7DVA-E) **SC743T-R760/650/645*** (X7DVA-E) **SC743i-R760/650/645*** (X7DVA-E) * 2-ch (4+4) hot-swap drive bays (SC743S2) * 8 hot-swap drive bays (SC743S1/SC743TQ/SC743T) * 8 fixed drive bays (SC743i) * Triple redundant 760W/ 650W/645W low-noise control * Fan-0091 required for SC743S1/SC743T/SC743i-645 * Passive heatsink SNK-P0018	**SC743S2-R760/650** **SC743S1-R760/650/645*** * 2-ch (4+4) hot-swap drive bays (SC743S2) * 8 hot-swap drive bays (SC743S1) * Triple redundant 760W/ 650W/645W low-noise control * Fan-0091 required for SC743S2/SC743S1-645 * Passive heatsink SNK-P0018	**SC743TQ-R760** **SC743T-R760/650/645*** **SC743i-R760/650/645*** * 8 hot-swap drive bays (SC743TQ/SC743T) * 8 fixed drive bays (SC743i) * Triple redundant 760W/ 650W/645W low-noise control * Fan-0091 required for SC743T/SC743i-645 * Passive heatsink SNK-P0018	**SC743TQ-R760** **SC743T-R760/650/645*** **SC743i-R760/650/645*** * 8 hot-swap drive bays (SC743TQ/SC743T) * 8 fixed drive bays (SC743i) * Triple redundant 760W/ 650W/645W low-noise control * Fan-0091 required for SC743T/SC743i-645 * Passive heatsink SNK-P0018	3-pin Server & 4-pin Workstation for SC743T/ SC743S1/ SC743i-645 only
SC745 Series	N/A	N/A	**SC745S2-R800/700** * 100% cooling redundancy * High-efficiency power supply * Redundant 800W/700W * Passive heatsink: SNK-P0018	**SC745TQ-R800/700** * 100% cooling redundancy * High-efficiency power supply * Redundant 800W/700W * Passive heatsink: SNK-P0018		3-pin Server
SC733 Series	**SC733T/SC733TQ/SC733i-645** * 4 hot-swap drive bays (SC733T/SC733TQ) * 4 fixed drive bays (SC733i) * 645W low-noise control * For Xeon 5100 (Woodcrest) only * Active heatsink SNK-P0020A4	**SC733T/SC733TQ-645** (X7DVA-E) **SC733i-645** (X7DVA-E) * 4 hot-swap drive bays (SC733T/SC733TQ) * 4 fixed drive bays (SC733i) * 645W low-noise control * For Xeon 5100 (Woodcrest) only * Active heatsink SNK-P0020A4	N/A	N/A	**SC733T/SC733TQ-645** * 4 hot-swap drive bays (SC733T/SC733TQ) * 645W low-noise control * For Xeon 5100 (Woodcrest) only * Active heatsink SNK-P0020A4	4-pin Workstation

	Dual-core	**Dual-core**	**31W per CPU Dual-core**	**Dual-core**	**Dual-core**
MODEL	X6DH3-G2/ X6DHi-G2	X6DH8-G2+/ X6DHE-G2+	X6DLP-4G2/ X6DLP-EG2	X6DHR-3G2 X6DHR-EG2	X6DHP-3G2
Processor	Dual 64-bit Xeon up to 3.80GHz (Paxville support)	Dual 64-bit Xeon up to 3.80GHz (Paxville support)	Dual 64-bit Xeon LV up to 2.0GHz	Dual 64-bit Xeon up to 3.80GHz (Paxville support)	Dual 64-bit Xeon up to 3.80GHz (Paxville support)
Chipset/ System Bus	Intel E7520 800MHz	Intel E7520 800MHz	Intel E7520 667MHz	Intel E7520 800MHz	Intel E7520 800MHz
Form Factor	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	ATX 12" x 9.6"	Ext. ATX 12" x 13"	Proprietary 16.2" x 11.24"
Optimized Chassis	X6DH3-G2 2U: SC823T/TQ-R500RC SC823T-550LP SC823T/TQ-R500LP 3U: SC833T-R760 SC833T-550 4U/Tower: SC743T/TQ-650/R760 X6DHi-G2 2U: SC823i-R500RC/550LP	X6DH8-G2+ 2U: SC823S-R500RC/R500LP/550LP 3U: SC833S-R760/550 SC933S2-R760/SC933S1-R760 4U/Tower: SC743S1-R760/650 SC743S2-R760/650 X6DHE-G2+ 4U/Tower: SC743i-R760/650 2U: SC823i-R500RC/550LP	X6DLP-4G2 1U: SC813MS-300C X6DLP-EG2 1U: SC811LT-260 (OEM) SC512LF-260 (OEM)	X6DHR-3G2 1U: SC813TQ-500 SC813T-500 X6DHR-EG2 1U: SC812i-420	1U: SC816A-700 SC816A-R700
Memory Capacity & Slots	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs
Expansion Slots	2 PCI Express x8 1 PCI-X 133MHz 2 PCI-X 100MHz 1 PCI	2 PCI Express x8 1 PCI Express x4 1 PCI-X 133MHz 2 PCI-X 100MHz	1 Universal PCI-X 66MHz or 1 PCI Express x8 1 PCI Express x8 1 PCI-X 66MHz 1 PCI	1 Universal PCI-X 133MHz or 1 PCI Express x8 1 Universal PCI-X 100MHz or 1 PCI Express x8	1 Universal PCI-X 100MHz or 1 PCI Express x8 1 Universal PCI-X 100MHz or 1 PCI Express x8
Onboard SCSI/ SATA/SAS/ SATA RAID	Adaptec 9410 controller for 8 SAS/SATA; RAID 0, 1, 10 (X6DH3-G2 only) Intel 6300ESB controller for 2 SATA; RAID 0, 1	Adaptec 7902W dual-channel Ultra 320SCSI w/host RAID (X6DH8-G2+ only) Intel ICH5R for 2 SATA RAID 0, 1	Adaptec 7901 Ultra320 SCSI with host RAID (X6DLP-4G2 only) Intel 6300ESB controller for 2 SATA; RAID 0, 1	Adaptec 9410 controller for 8 SAS/SATA (4 Int. & 4 Ext.); RAID 0, 1, 10 (X6DHR-3G2 only) Intel ICH5R controller for 2 SATA; RAID 0, 1	Adaptec 9410 controller for 8 SAS/SATA; RAID 0, 1, 10 Intel ICH5R controller for 2 SATA; RAID 0, 1
Zero Channel RAID (ZCR) card support	AOC-LPZCR2 (X6DH3-G2 only)	AOC-LPZCR1 or AOC-LPZCR2 (X6DH8-G2+ only)	AOC-LPZCR1 (X6DLP-4G2 only)	AOC-SOZCR1 (X6DHR-3G2 only)	AOC-LPZCR2
Onboard LAN	Dual LAN w/Intel 82541PI Gigabit Ethernet controller	Dual LAN w/Intel 82546GB Gigabit Ethernet controller	Dual LAN w/Intel 82573V & 82573L PCI-Express Gigabit Ethernet controller	Dual LAN w/Intel 82546GB Gigabit Ethernet controller	Dual LAN w/Intel 82546B Gigabit Ethernet controller
Onboard VGA	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
Built-in EIDE/ USB ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 5 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.
Manageability	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	1U IPMI 2.0 slot w/3rd LAN support, Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +3.3V standby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 4-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +3.3V standby and 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and total of 10 6-pin proprietary fan headers with 10-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM & 3-pin fan speed control & overheat LED indication	4-pin PWM & 3-pin fan speed control & overheat LED indication	4-pin PWM & 3-pin fan speed control & overheat LED indication	3-pin fan speed control & overheat LED indication	Proprietary fans & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	AMI 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM

Optimized Chassis Highlights

SUPER● SC833T-R760
- 8 hot-swap SAS/SATA bays
- Triple redundant 760W power w/I^{2}C mgt.
- 6 Hot-swap fans for 100% cooling redundancy
- Air-shroud for optimal cooling
- 3U x 25.5"

SUPER● SC743T-R760
- 8 hot-swap SAS/SATA bays
- Triple redundant 760W power w/I^{2}C mgt.
- 6 Hot-swap fans for 100% cooling redundancy
- Tool-less PCI & rotatable drive bay module
- 4U x 25.5"/Tower

SUPER● SC813T-500
- 4 hot-swap SAS/SATA bays
- 500W cold swap power supply w/I^{2}C mgt.
- 2 PCI-X/Express slots
- 1 slim CD & 1 slim floppy drive
- 1U x 25.6"

Key Features & Accessories

MB Chassis	X6DHR-3G2/X6DLP-4G	X6DHP-3G2	X6DHR-EG2/X6DLP-EG2	Fan Setting

SC816A-700/R700	N/A	**SC816A-700/R700 - High performance & PCI-X/PCI-Express**
		• 4 hot-swap SAS/SATA drive bays with SES-2
		• 700W Redundant power supply with I^{2}C mgt. (SC816A-R700 only)
		• 700W cold-swap power supply with I^{2}C mgt. (SC816A-700 only)
		• 1U Passive heatsink: SNK-P0009*
		• 1U riser cards*:
		  PCI-X: CSE-RR1U-X
		  PCI-X: CSE-RR1U-XR
		  PCI-Express: CSE-RR1U-EL
		  PCI-Express: CSE-RR1U-ER
			N/A	3-pin Server

SC811-420/SC812-420	N/A	N/A	**SC812i-420 - Cost-effective & PCI-X/PCI-Express** • 2 fixed drive bays • 420W power supply • Optional slim CDROM & slim floppy • 1U Passive heatsink SNK-P0009* • 1U riser cards*: PCI-X: CSE-RR1U-X	3-pin Server

SC813T-500/SC813TQ-500	**SC813TQ/T-500 - High performance & PCI-X/PCI-Express (X6DHR-3G2 only)**
	• 4 hot-swap SAS/SATA drive bays with SES-2 (SC813TQ only)
	• 500W cold-swap power supply with I^{2}C mgt.
	• 1U Passive heatsink: SNK-P0009*
	• 1U riser cards*:
	  PCI-X: CSE-RR1U-X
	  PCI-X low profile: CSE-RR1U-XLP
	  PCI-Express: CSE-RR1U-EL
	  PCI-Express low profile: CSE-RR1U-ELP
		N/A	N/A	3-pin Server

MB Chassis	X6DH3-G2	X6DHi-G2/X6DHE-G2+	X6DH8-G2+	Fan Setting
SC743TQ	**SC743T/TQ-650/R760- High-performance & 100% cooling redundancy** • 8 hot-swap SAS/SATA drive bays with SES2 • Triple redundant 760W power supply with I^{2}C (SC743TQ-R760) • 650W redundant cooling power supply (SC743TQ-650) • Passive heatsink: SNK-P0010*	**SC743i-R760/650- High-performance & 100% cooling redundancy** • 8 x 3.5" fixed drive bays • Triple redundant 760W power supply with I^{2}C (SC743i-R760) • 650W redundant cooling power supply (SC743i-650) • Passive heatsink: SNK-P0010*	**SC743S-R760/650- High-performance & 100% cooling redundancy** • 8 hot-swap SCA drive bays with SAF-TE • Triple redundant 760W power supply with I^{2}C (SC743S-R760) • 650W redundant cooling power supply (SC743S-650) • Passive heatsink: SNK-P0010*	3-pin Server
SC833-R760	**SC833T-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SAS/SATA drive bays • Triple redundant 760W power supply with I^{2}C for remote mgt. • Passive heatsink: SNK-P0010*	N/A	**SC833S-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SCA drive bays with SAF-TE • Triple redundant 760W power supply with I^{2}C for remote mgt. • Passive heatsink: SNK-P0010*	3-pin Server
SC833-550	**SC833T-550 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SAS/SATA drive bays • 550W power supply • Passive heatsink: SNK-P0010*	N/A	**SC833S-550 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SCA drive bays with SAF-TE • 550W power supply • Passive heatsink: SNK-P0010*	3-pin Server
SC823-R500 (Riser Card)	**SC823TQ-R500RC - High-performance & power redundancy** • 6 hot-swap SAS/SATA drive bays with SES2 • Redundant 500W power supply with I^{2}C for remote mgt. • 3 Full-height & full-length expansion slots • Passive heatsink: SNK-P0010* • 2U active riser card: CSE-RR2UE-AX*	**SC823i-R500RC - High-performance & power redundancy** • 2 fixed drive cartridge (up to 6 HDD) • Redundant 500W power supply with I^{2}C for remote mgt. • 3 Full-height & full-length expansion slots • Passive heatsink: SNK-P0010* • 2U active riser card: CSE-RR2UE-AX*	**SC823S-R500RC - High-performance & power redundancy** • 6 hot-swap SCA drive bays • Redundant 500W power supply with I^{2}C for remote mgt. • 3 Full-height & full-length • Passive heatsink: SNK-P0010* • 2U active riser card: CSE-RR2UE-AX*	3-pin Server
SC823-R500 (Low profile)	**SC823TQ-R500LP - High-performance & power redundancy** • 6 hot-swap SAS/SATA drive bays • Redundant 500W power supply with I^{2}C for remote mgt. • 7 Low-profile slots • Passive heatsink: SNK-P0010*	N/A	**SC823S-R500LP - High-performance & power redundancy** • 6 hot-swap SCA drive bays • Redundant 500W power supply with I^{2}C for remote mgt. • 7 low-profile slots • Passive heatsink: SNK-P0010*	3-pin Server
SC823-550 (Low Profile)	**SC823T-550LP - Cost-effective** • 6 hot-swap SAS/SATA drive bays • 7 low-profile expansion slots • 550W power supply • Passive heatsink: SNK-P0010*	**SC823i-550LP - Cost-effective** • 2 fixed drive cartridge (up to 6 HDD) • 7 low-profile expansion slots • 550W power supply • Passive heatsink: SNK-P0010*	**SC823S-550LP - Cost-effective** • 6 hot-swap SCA drive bays • 7 low-profile expansion slots • 550W power supply • Passive heatsink: SNK-P0010*	3-pin Server

Note: Optional Rail Kit CSE-PT26(B) and Floppy Drive are available for SC743, SC742 and SC942 series chassis

* Sold separately

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MODEL	X6DH8-G2/ X6DHE-G2	X6DHT-G	X6DH8-XG2/ X6DHE-XG2	X6DH8-XB/ X6DHE-XB	X6DH8-G/ X6DHE-G
Processor	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz
Chipset/ System Bus	Intel E7520 800MHz	Intel E7520 800MHz	Intel E7520 800MHz	Intel E7520 800MHz	Intel E7520 800MHz
Form Factor	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"
Optimized Chassis	X6DH8-G2 2U: SC823S-R500RC/R500LP/550LP 3U: SC833S-R760/550 SC933S2-R760/SC933S1-R760 4U/Tower: SC743S1-R760/650 SC743S2-R760/650 X6DHE-G2 2U: SC823i-R500RC/550LP 4U/Tower: SC743i-R760/650	2U: SC823T-R500LP SC823T-550LP 3U: SC833T-R760, SC833T-550 4U/Tower: SC743T-R760 SC743T-650	X6DH8-XG2 2U: SC823S-R500LP/550LP 3U: SC833S-R760/550 SC933S1-R760, SC933S2-R760 4U/Tower: SC743S1-R760/650 SC743S2-R760/650 X6DHE-XG2 2U: SC823i-550LP 4U/Tower: SC743i-R760/650	X6DH8-XB 2U: SC823S-550LP/R500LP 4U/Tower: SC743S1-R760/650 SC743S2-R760/650 X6DHE-XB 2U: SC823i-550LP 4U/Tower: SC743i-R760/650	X6DH8-G 2U: SC823S-R500LP/550LP 3U: SC833S-R760/550 SC933S1-R760, SC933S2-R760 4U/Tower: SC743S1-R760/650 SC743S2-R760/650 X6DHE-G 2U: SC823i-R500LP 4U/Tower: SC743i-645/650/R760
Memory Capacity & Slots	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16/32 GB ECC Reg. DDR 333/266 SDRAM in 8 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16/32 GB ECC Reg. DDR333/266 SDRAM in 8 DIMMs	16/32 GB ECC Reg. DDR333/266 SDRAM in 8 DIMMs
Expansion Slots	2 PCI Express x8 1 PCI Express x4 1 PCI-X 133MHz 2 PCI-X 100MHz	2 PCI Express x8 1 PCI-X 133MHz 2 PCI-X 100MHz 1 PCI	1 PCI Express x8 (using x16 slot) 3 PCI-X 133MHz 2 PCI-X 100MHz	1 PCI Express x4 (using x8 slot) 2 PCI-X 133MHz 4 PCI-X 100MHz	2 PCI Express x8 1 PCI-X 133MHz 2 PCI-X 100MHz 1 PCI
Onboard SCSI/SAS SATA/SATA RAID	Adaptec 7902W dual-channel Ultra 320SCSI w/host RAID (X6DH8-G2 only) Intel ICH5R for 2 SATA RAID 0, 1	Adaptec AIC-8140 controller supports 8 SATA; RAID 0, 1 Intel 6300ESB for 2 SATA RAID 0, 1	Adaptec 7902W dual-channel Ultra 320SCSI w/host RAID (X6DH8-XG2 only) Intel ICH5R for 2 SATA RAID 0, 1	Adaptec 7902W dual-channel Ultra 320SCSI w/host RAID (X6DH8-XB only) Intel ICH5R for 2 SATA RAID 0, 1	Adaptec 7902W dual-channel Ultra 320SCSI w/host RAID (X6DH8-G) Intel 6300ESB for 2 SATA RAID 0, 1
Zero Channel RAID (ZCR) card support	AOC-LPZCR1 or AOC-2020S (X6DH8-G2 only)	AOC-LPZCR1 or AOC-2020SA	AOC-LPZR1 or AOC-2020S (X6DH8-XG2 only)	AOC-LPZCR1 or AOC-2020S (X6DH8-XB only)	AOC-LPZCR1 or AOC-2020S (X6DH8-G)
Onboard LAN	Dual LAN w/Intel 82546GB Gigabit Ethernet controller	Dual LAN w/Intel 82541GI Gigabit Ethernet controller	Dual LAN w/Intel 82546GB Gigabit Ethernet controller	Dual LAN w/Broadcom 5721 PCI Express Gigabit Ethernet	Dual LAN w/Intel 82541GI Gigabit Ethernet controller
Onboard VGA	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
Built-in EIDE/ USB ports	ATA100/ Up to 5 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 5 USB 2.0 ports	ATA100/ Up to 5 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.
Manageability	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +3.3V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +3.3V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM & 3-pin fan speed control & overheat LED indication	4-pin PWM & 3-pin fan speed control & overheat LED indication	4-pin PWM & 3-pin fan speed control & overheat LED indication	4-pin PWM & 3-pin fan speed control & overheat LED indication	4-pin PWM & 3-pin fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM

Optimized Chassis Highlights

SUPER○ ® SC743S1-R760/650
- 8 hot-swap SCA bays
- Triple redundant 760W power w/I²C mgt. (R760 only)
- 6 Hot-swap fans for 100% cooling redundancy
- Tool-less PCI & rotatable drive bay module
- 4U x 25.5"/Tower

SUPER○ ® SC823T-R500RC
- 6 hot-swap SATA bays
- Redundant 500W power w/I²C mgt.
- 4 high-performance hot-swap fans
- 3 full-size PCI expansion slots
- 2U x 25.5"

SUPER○ ® SC942S-600
- 10 hot-swap SCA bays (SAF-TE compliant)
- Triple redundant 600W power supply
- Optimized for either rack or tower
- 4U x 23.8"/Tower

SUPER○ ® SC833S-R760
- 8 hot-swap SCA bays (SAF-TE compliant)
- Triple redundant 760W power w/I²C mgt.
- 6 Hot-swap fans for 100% cooling redundancy
- Air-shroud for optimal cooling
- 3U x 25.5"

SUPER○ ® SC933S2-R760
- 14 hot-swap SCA 2-channel bays (SAF-TE compliant)
- Triple redundant 760W power w/I²C mgt.
- 6 Hot-swap fans for 100% cooling redundancy
- Air-shroud for optimal cooling
- 3U x 25.5"

SUPER○ ® SC742T-550
- 7 hot-swap SATA bays
- 550W redundant cooling power supply
- Hot-swap cooling fans
- 4U x 24.2"/Tower

Key Features & Accessories

MB Chassis	X6DH8-G2/XG2/G/XB	X6DHT-G/G2	X6DHE-G2/XG2/G/XB	Fan Setting
SC743-R760	**SC743S1-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SCA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	**SC743T-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SATA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	**SC743i-R760 - High-performance & 100% cooling redundancy** • 2 fixed drive cartridges (up to 8 HDD) • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	3-pin Server
SC743-650	**SC743S1-650 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SCA drive bays • 650W redundant cooling power supply • Passive heatsink: SNK-P0010*	**SC743T-650 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SATA drive bays • 650W redundant cooling power supply • Passive heatsink: SNK-P0010*	**SC743i-650 - Cost-effective & 100% cooling redundancy** • 2 fixed drive cartridges (up to 8 HDD) • 650W redundant cooling power supply • Passive heatsink: SNK-P0010*	3-pin Server
SC833-R760	**SC833S-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SCA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	**SC833T-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SATA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	N/A	3-pin Server
SC833-550	**SC833S-550 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SCA drive bays • 550W power supply • Passive heatsink: SNK-P0010*	**SC833T-550 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SATA drive bays • 550W power supply • Passive heatsink: SNK-P0010*	N/A	3-pin Server
SC933-R760	**SC933S2-R760 - High-performance & 100% cooling redundancy** • 14 hot-swap SCA drive bays for dual-channel SCSI • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	**SC933T-R760 - High-performance & 100% cooling redundancy** • 15 hot-swap SATA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	N/A	3-pin Server
SC823-R500 (Riser Card)	**SC823S-R500RC - High-performance & power redundancy** (X6DH8-G2) • 6 hot-swap SCA drive bays • Redundant 500W power supply with I²C for remote mgt. • 3 Full-height & full-length • Passive heatsink: SNK-P0010* • 2U active riser card: CSE-RR2UE-AX*	N/A	**SC823i-R500RC - High-performance & power redundancy** (X6DHE-G2) • 2 fixed drive cartridges (up to 6 HDD) • Redundant 500W power supply with I²C for remote mgt. • 3 Full-height & full-length slots • Passive heatsink: SNK-P0010* • 2U active riser card: CSE-RR2UE-AX*	3-pin Server
SC823-R500 (Low profile)	**SC823S-R500LP - High-performance & power redundancy** • 6 hot-swap SCA drive bays • Redundant 500W power supply with I²C for remote mgt. • 7 low-profile expansion slots • Passive heatsink: SNK-P0010*	**SC823T-R500LP - High-performance & power redundancy** • 6 hot-swap SATA drive bays • Redundant 500W power supply with I²C for remote mgt. • 7 low-profile expansion slots • Passive heatsink: SNK-P0010*	**SC823i-R500LP - High-performance & power redundancy** • 2 fixed drive cartridge (up to 6 HDD) • Redundant 500W power supply with I²C for remote mgt. • 7 low-profile expansion slots • Passive heatsink: SNK-P0010*	3-pin Server
SC823-550 (Low Profile)	**SC823S-550LP - Cost-effective** • 6 hot-swap SCA drive bays • 7 low-profile expansion slots • 550W power supply • Passive heatsink: SNK-P0010*	**SC823T-550LP - Cost-effective** • 6 hot-swap SATA drive bays • 7 low-profile expansion slots • 550W power supply • Passive heatsink: SNK-P0010*	**SC823i-550LP - Cost-effective** • 2 fixed drive cartridges (up to 6 HDD) • 7 low-profile expansion slots • 550W power supply • Passive heatsink: SNK-P0010*	3-pin Server
SC942-600	**SC942S-600 - High-performance & power redundancy** • 10 hot-swap SCA drive bays • Triple redundant 600W power supply • SCSI cable: CBL-0043 • Active heatsink: SNK-P0008A*	N/A	**SC942i-600 - High-performance & power redundancy** • 3 fixed drive cartridges (up to 15 HDD) • Triple redundant 600W power supply • Active heatsink: SNK-P0008A*	3-pin Server
SC742-600/500	**SC742S-600/500 - Cost-effective & power redundancy** • 7 hot-swap SCA drive bays • Triple redundant 600W/500W power supply • Active heatsink: SNK-P0008A*	N/A	**SC742i-600 - Cost-effective & power redundancy** • 2 fixed drive cartridges (up to 7 HDD) • Triple redundant 600W power supply • Active heatsink: SNK-P0008A*	3-pin Server
SC742-420/650	**SC742S-420 - Cost-effective** • 7 hot-swap SCA drive bays • 420W redundant cooling power supply • Active heatsink: SNK-P0008A*	**SC742T-650 - Cost-effective** • 7 hot-swap SATA drive bays • 550W redundant cooling power supply • Active heatsink: SNK-P0008A*	**SC742i-420 - Cost-effective** • 2 fixed drive cartridges (up to 7 HDD) • 420W redundant cooling power supply • Active heatsink: SNK-P0008A*	3-pin Server

Note: Optional Rail Kit CSE-PT26(B) and Floppy Drive are available for SC743, SC742 and SC942 series chassis
* Sold separately

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MODEL	X6DHR-8G2	X6DHR-iG2	X6DHR-TG	X6DHR-8G/iG	X6DHR-X8G/ X6DHR-XiG
Processor	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz
Chipset/ System Bus	Intel E7520 800MHz	Intel E7520 800MHz	Intel E7520 800MHz	Intel E7520 800MHz	Intel E7520 800MHz
Form Factor	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"
Optimized Chassis	1U: SC813S-500 SC812S-420	1U: SC812i-420 SC812L-420	1U: SC813T-500	X6DHR-8G 1U: SC813S-500, SC812S-420 X6DHR-iG 1U: SC812i-420, SC812L-420	X6DHR-X8G 1U: SC813S-500, SC812S-420 X6DHR-XiG 1U: SC812i-420, SC812L-420
Memory Capacity & Slots	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16/32 GB ECC Reg. DDR333/266 SDRAM in 8 DIMMs	16/32 GB ECC Reg. DDR333/266 SDRAM in 8 DIMMs	16/32 GB ECC Reg. DDR333/266 SDRAM in 8 DIMMs
Expansion Slots	1 Universal PCI-X 133MHz/ 1 PCI Express x8 1 Universal PCI-X 100MHz/ 1 PCI Express x8	1 Universal PCI-X 133MHz/ 1 PCI Express x8 1 Universal PCI-X 100MHz/ 1 PCI Express x8	1 Universal PCI-X 133MHz/ 1 PCI Express x8 1 Universal PCI-X 100MHz/ 1 PCI Express x8	1 Universal PCI-X 133MHz/ 1 PCI Express x8 1 Universal PCI-X 133MHz/ 1 PCI Express x4	2 PCI-X 133MHz
Onboard SCSI/ SATA/SATA RAID	Adaptec 7902W dual-channel Ultra 320SCSI w/host RAID Intel ICH5R for 2 SATA RAID 0, 1	Intel ICH5R for 2 SATA RAID 0, 1	Adaptec AIC-8130 controller for 4 SATA; RAID 0, 1 Intel ICH5R for 2 SATA RAID 0, 1	Adaptec 7902W dual-channel Ultra 320SCSI w/host RAID (X6DHR-8G only) Intel ICH5R for 2 SATA RAID 0, 1	Adaptec 7902W dual-channel Ultra 320SCSI w/host RAID (X6DHR-X8G only) Intel ICH5R for 2 SATA RAID 0, 1
ZCR card support	AOC-SOZCR1 or Adaptec SCSI RAID 2025S	N/A	AOC-SOZCR1 or Adaptec SATA RAID 2025SA	AOC-SOZCR1 or Adaptec SCSI RAID 2025S (X6DHR-8G)	AOC-SOZCR1 or Adaptec SCSI RAID 2025S (X6DHR-X8G)
Onboard LAN	Dual LAN w/Intel 82546GB Gigabit Ethernet	Dual LAN w/Intel 82546GB Gigabit Ethernet	Dual LAN w/Intel 82546GB Gigabit Ethernet	Dual LAN w/Intel 82546GB Gigabit Ethernet	Dual LAN w/Intel 82546GB Gigabit Ethernet
Onboard VGA	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
Built-in EIDE/ USB ports	ATA100/ Up to 4USB 2.0 ports	ATA100/ Up to 4USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.
Manageability	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, & +5V standy and 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V & +5V standy and 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, & +5V standy and 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, & +5V standy and 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, & +5V standy and 5-fan status, supports system management utility, chassis intrusion header
Thermal Control	3-pin fan speed control & overheat LED indication	3-pin fan speed control & overheat LED indication	3-pin fan speed control & overheat LED indication	3-pin fan speed control & overheat LED indication	3-pin fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM

SUPER● SC813S-500
- 4 hot-swap SCA bays
- 500W cold swap power supply w/I^{2}C mgt.
- 2 PCI-X/Express slots
- 1 slim CD & 1 slim floppy drive
- 1U x 25.6"

SUPER● SC812S-420
- 3 hot-swap SCA bays
- 420W power supply
- 2 PCI-X/Express slots
- Front side USB & COM ports
- 1U x 25.6"

SUPER● SC812L-420
- 3 internal drive bays
- 420W power supply
- 2 PCI-X/Express slots
- Optimized for clustering
- 1U x 25.6"

SUPER● SC813T-500
- 4 hot-swap SATA bays
- 500W cold swap power supply w/I^{2}C mgt.
- 2 PCI-X/Express slots
- 1 slim CD & 1 slim floppy drive
- 1U x 25.6"

SUPER● SC812i-420
- 3 fixed drive bays
- 420W power supply
- 2 PCI-X/Express slots
- Front side USB & COM ports
- 1U x 25.6"

SUPER● SC813TQ-500
- 4 hot-swap SAS/SATA bays w/SES-II
- 500W cold swap power supply w/I^{2}C mgt.
- 2 PCI-X/Express slots
- 1 slim CD & 1 slim floppy drive
- 1U x 25.6"

Key Features & Accessories

MB / Chassis	X6DHR-8G2/8G	X6DHR-TG	X6DHR-iG2/iG	Fan Setting

SC813-500	**SC813S-500 - High performance & PCI-X/PCI-Express**
	• 4 hot-swap SCA drive bays
	• 500W cold-swap power supply with I^{2}C mgt.
	• 1U Passive heatsink: SNK-P0009*
	• 1U riser cards*:
	  PCI-X: CSE-RR1U-X
	  PCI-X low profile: CSE-RR1U-XLP
	  PCI-Express: CSE-RR1U-EL
	  PCI-Express low profile: CSE-RR1U-ELP
		SC813T-500 - High performance & PCI-X/PCI-Express
		• 4 hot-swap SATA drive bays
		• 500W cold-swap power supply with I^{2}C mgt.
		• 1U Passive heatsink: SNK-P0009*
		• 1U riser cards*:
		  PCI-X: CSE-RR1U-X
		  PCI-X low profile: CSE-RR1U-XLP
		  PCI-Express: CSE-RR1U-EL
		  PCI-Express low profile: CSE-RR1U-ELP
			N/A	3-pin Server

SC812-420	**SC812S-420 - Cost-effective & PCI-X/PCI-Express**
	• 3 hot-swap SCA drive bays
	• 420W power supply
	• Optional slim CDROM & slim floppy
	• 1U Passive heatsink: SNK-P0009*
	• 1U riser cards*:
	  PCI-X: CSE-RR1U-X
	  PCI-X low profile: CSE-RR1U-XLP
	  PCI-Express: CSE-RR1U-EL
	  PCI-Express low profile: CSE-RR1U-ELP
		N/A	**SC812i-420 - Cost-effective & PCI-X/PCI-Express**
			• 3 fixed drive bays
			• 420W power supply
			• Optional slim CDROM & slim floppy
			• 1U Passive heatsink SNK-P0009*
			• 1U riser cards*:
			  PCI-X: CSE-RR1U-X
			  PCI-X low profile: CSE-RR1U-XLP
			  PCI-Express: CSE-RR1U-EL
			  PCI-Express low profile: CSE-RR1U-ELP
				3-pin Server

SC812L-420	**SC812L-420 - Cost-effective & PCI-X/PCI-Express**
	• 3 internal drive bays
	• 420W power supply
	• 1U Passive heatsink: SNK-P0009*
	• 1U riser cards*:
	  PCI-X: CSE-RR1U-X
	  PCI-X low profile: CSE-RR1U-XLP
	  PCI-Express: CSE-RR1U-EL
	  PCI-Express low profile: CSE-RR1U-ELP
		N/A	**SC812L-420 - Cost-effective & PCI-X/PCI-Express**
			• 3 internal drive bays
			• 420W power supply
			• 1U Passive heatsink: SNK-P0009*
			• 1U riser cards*:
			  PCI-X: CSE-RR1U-X
			  PCI-X low profile: CSE-RR1U-XLP
			  PCI-Express: CSE-RR1U-EL
			  PCI-Express low profile: CSE-RR1U-ELP
				3-pin Server

* Sold Separately

Dual-core   **Infiniband**

SUPER● **SERVER SOLUTION**

MODEL	X6DVA-4G2/ X6DVA-EG2	X6DVL-INF X6DVL-iG2	X6DVL-EG2	X6DVA-4G/ X6DVA-EG	X6DVL-EG/ X6DVL-G
Processor	Dual 64-bit Xeon up to 3.80GHz (Paxville support)	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz
Chipset/ System Bus	Intel E7320 800MHz	Intel E7320 800MHz	Intel E7320 800MHz	Intel E7320 800MHz	Intel E7320 800MHz
Form Factor	ATX 12" x 10"	ATX 12" x 10"	ATX 12" x 10"	ATX 12" x 10"	ATX 12" x 10"
Optimized Chassis	X6DVA-4G2 1U: SC811S-420 X6DVA-EG2 Mid-tower: SC733i-645/450 1U: SC811i-420, SC811T-420 Mimi 1U: SC513L-420 (For Dual-core MB need 500W power supply)	X6DVL-INF 1U: SC811T-420-INF X6DVL-iG2 1U: SC811i-420-INF	1U: SC811i-420, SC811T-420, SC513L-420 Mid tower: SC733i-450 SC733i-645	X6DVA-4G 1U: SC813MS-420C, SC811S-420 X6DVA-EG 1U: SC811i-420, SC811T-420, SC513L-420 Mid tower: SC733i-450 SC733i-645	X6DVL-EG 1U: SC811i-420, SC811T-420 SC513L-420 Mid tower: SC733i-450, SC733i-645 X6DVL-G Mid tower: SC733i-450, SC733i-645
Memory Capacity & Slots	12 GB ECC Reg. DDRII 400 SDRAM in 6 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	8 GB ECC Reg. DDRII 400 SDRAM in 4 DIMMs	12/24 GB ECC Reg. DDR333/266 SDRAM in 6 DIMMs	8/16 GB ECC Reg. DDR333/266 SDRAM in 4 DIMMs
Expansion Slots	1 PCI Express x4 1 PCI-X 133MHz 1 PCI-X 100MHz 1 PCI	1 PCI 66MHz	2 PCI Express x4 (using x8 slot) 1 PCI 66MHz 3 PCI	1 PCI Express x4 1 PCI-X 133MHz 1 PCI-X 100MHz 1 PCI	X6DVL-EG: 1 PCI Express x8 (using x16 slot) 1 PCI-X 66MHz & 2 PCI X6DVL-G: 1 PCI Express x8 (using x16 slot) 1 PCI-X 66MHz & 3 PCI
Onboard SCSI/ SATA/SATA RAID ZCR card support	LSI Ultra320 SCSI w/mirroring (X6DVA-4G2 only) Intel 6300ESB controller for 2 SATA; RAID 0, 1	Intel 6300ESB for 2 SATA RAID 0, 1	Intel 6300ESB for 2 SATA RAID 0, 1	LSI Ultra320 SCSI w/mirroring (X6DVA-4G only) Intel 6300ESB for 2 SATA RAID 0, 1	Intel 6300ESB for 2 SATA RAID 0, 1
Onboard LAN	Dual LAN w/Intel 82541PI Gigabit Ethernet controller	Dual Intel 82541PI Gigabit Ethernet	Dual Intel 82541PI Gigabit Ethernet	Intel 82541PI Gigabit Ethernet	Intel 82541PI Gigabit Ethernet
Onboard VGA	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller (X6DVL-EG only)
Built-in EIDE/ USB ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn. Dual x4 Infiniband ports with 1 ECC DDR DIMM slot (X6DVL-INF only)	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.
Manageability	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 6-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM & 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM fan speed control & overheat LED indication
Other Features	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM & CPU thermal trip support for processor protection
BIOS	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM

Optimized Chassis Highlights

SUPER● SC743S1-650
- 8 hot-swap SCA bays
- 650W redundant cooling power
- 6 hot-swap fans for 100% cooling redundancy
- Tool-less PCI & rotatable drive bay module
- 4U x 25.5"/Tower

SUPER● SC742i-420
- 7 fixed & 4 5.25" drive bays
- 420W redundant cooling fan
- Hot-swap cooling fans
- 4U x 23.8"/Tower

SUPER● SC733T-645
- 4 hot-swap SATA bays
- 645W w/low-noise cooling fan
- Maximum cost-effectiveness
- Mid tower: 7" x 16.8" x 20.9"

SUPER● SC513L-420
- 2 x 2.5" fixed drives bays
- 420W power supply
- 3 x 4cm counter-rotating fans
- Front I/O access
- 1U x 14"

SUPER● SC813MT-420C
- 4 hot-swap SATA bays
- 420W power supply
- High performance 4cm fans
- Shortened chassis for shallow racks
- 1U x 19.8"

SUPER● SC811S-420
- 2 hot-swap SCA bays
- 420W power supply
- 2 10cm blower fans
- 1U x 22.6" cost-effective solution

Key Features & Accessories

MB Chassis	X6DVA-4G/X6DVA-4G2	X6DVL-INF/X6DVL-iG2	X6DVA-EG/EG2 & X6DVL-EG/G	Fan Setting
SC743-650	**SC743S1-650 - 100% cooling redundancy & Cost-effective (X6DVA-4G only)** • 8 hot-swap SCA drive bays • 650W redundant cooling power supply • Passive heatsink: SNK-P0010* • 3-pin fan power extension cable: CBL-0064*	N/A	**SC743i-650 - 100% cooling redundancy & Cost-effective (X6DVA-EG, X6DVL-EG & X6DVL-G only)** • 2 fixed drive cartridges (up to 8 HDD) • 650W redundant cooling power supply • Passive heatsink: SNK-P0010* • 3-pin fan power extension cable: CBL-0064*	3-pin Server
SC742-650	N/A	N/A	N/A	3-pin Server
SC742-420	**SC742S-420 - Cost-effective (X6DVA-4G only)** • 7 hot-swap SCA drive bays • 420W redundant cooling power supply • Active heatsink: SNK-P0008A*	N/A	**SC742i-420 - Cost-effective (X6DVA-EG, X6DVL-EG & X6DVL-G only)** • 2 fixed drive caretridges (up to 7 HDD) • 420W redundant cooling power supply • Active heatsink: SNK-P0008A*	3-pin Server
SC733-645	N/A	N/A	**SC733i-645 - Cost-effective & low-noise (X6DVA-EG, X6DVL-EG & X6DVL-G only)** • 4 fixed drive bays • 645W low-noise power supply • Active heatsink: SNK-P0008A4*	4-pin Server
SC813M-420	**SC813MS-420C - High-performance 1U short-depth (X6DVA-4G only)** • 4 hot-swap SCA drive bays • 420W power supply • 1U Passive heatsink: SNK-P0009* • 1U PCI-X riser card: CSE-RR1U-X*	N/A	N/A	3-pin Server
SC811-420	**SC811S-420 - Cost-Effective 1U** • 2 hot-swap SCA drive bays • 420W power supply • 1U Passive heatsink: SNK-P0009* • 1U PCI-X riser card: CSE-RR1U-X*	**SC811T-420INF/SC811i-INF - Cost-effective 1U** • 2 hot-swap SATA drive bays (SC811T-420INF) • 2 fixed drive bays (SC811i-420INF) • 420W power supply • 1U Passive heatsink: SNK-P0009* • 1U PCI-X riser card: CSE-RR1U-X*	**SC811i-420 - Cost-effective 1U** • 2 fixed drive bays • 420W power supply • 1U Passive heatsink: SNK-P0009* • 1U PCI-X riser card: CSE-RR1U-X* (for X6DVA-EG/iG/EG2) • 1U PCI-E riser card: CSE-RR1U-E16* (for X6DVL-EG/G)	3-pin Server
SC513L-420	**SC513L-420 - Cost-Effective Mini 1U (X6DVA-4G only)** • 2 x 2.5" fixed drive bays • 420W power supply • 1U Passive heatsink: SNK-P0009* • 1U PCI-X riser card: CSE-RR1U-X	N/A	**SC513L-420 - Cost-Effective Mini 1U** • 2 x 2.5" fixed drive bays • 420W power supply • 1U Passive heatsink: SNK-P0009* • 1U PCI-X riser card: CSE-RR1U-X (for X6DVA-EG/iG/EG2) 1U PCI-x riser card: CSE-RR1U-E16 (for X6DVL-EG/G)	3-pin Server

Note: Optional Rail Kit CSE-PT26(B) and Floppy Drive are available for SC743, SC742 and SC942 series chassis
* Sold separately

SUPER●
SERVER
SOLUTION

MODEL	X6DA3-G2/ X6DAi-G2	X6DA8-G2	X6DAE-G2	X6DA8-G/ X6DAE-G	X6DAT-G/ X6DAi-G
Processor	Dual 64-bit Xeon up to 3.80GHz (Paxville support)	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz
Chipset/ System Bus	Intel E7525 800MHz	Intel E7525 800MHz	Intel E7525 800MHz	Intel E7525 800MHz	Intel E7525 800MHz
Form Factor	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"
Optimized Chassis	X6DA3-G2 Tower/4U: SC743T-645 SC743T-650 SC743T/TQ-R760 3U: SC833T-R760 SC833T-550 X6DAi-G2 Tower/4U: SC743i-645	Tower/4U: SC743S1-645/650 SC743S1-R760 3U: SC833S-R760/550 SC933S1-R760 SC933S2-R760 2U: SC823S-R500LP/550LP	Tower/4U: SC743i-645/650 SC743i-R760 SC742i-600 2U: SC823i-550LP	X6DA8-G Tower/4U: SC743S1-645/650 SC743S1-R760 3U: SC833S-R760/550 SC933S1-R760, SC933S2-R760 2U: SC823S-R500LP/550LP X6DAE-G Tower/4U: SC743i-645/650/R760 2U: SC823i-550LP	X6DAT-G: Tower/4U: SC743T-645/650 SC743T- R760 3U: SC833T-R760/550 2U: SC823T-R500LP/550LP X6DAi-G Tower/4U: SC743i-650/645/R760 Mid tower: SC823i-550LP
Memory Capacity & Slots	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16 GB ECC Reg. DDRII 400 SDRAM in 8 DIMMs	16/32 GB ECC Reg. DDR333/266 SDRAM in 8 DIMMs	16/32 GB ECC Reg. DDR333/266 SDRAM in 8 DIMMs
Expansion Slots	1 PCI Express x16 1 PCI Express x4 (using x16 slot) 1 PCI-X 133MHz 2 PCI-X 100MHz 1 PCI 33MHz	1 PCI Express x16 1 PCI Express x4 (using x16 slot) 1 PCI-X 133MHz 2 PCI-X 100MHz 1 PCI 33MHz	1 PCI Express x16 1 PCI Express x4 (using x16 slot) 1 PCI-X 133MHz 2 PCI-X 100MHz 1 PCI 33MHz	1 PCI Express x16 1 PCI Express x4 (using x16 slot) 1 PCI-X 133MHz 2 PCI-X 100MHz 1 PCI 33MHz	1 PCI Express x16 1 PCI Express x8 (using x16 slot) 2 PCI-X 66MHz 2 PCI 33MHz
Onboard SCSI/ SATA/SATA RAID	Adaptec 9410 controller for 8 SAS/SATA; RAID 0, 1, 10 (X6DA3-G2 only) Intel ICH5R controller for 2 SATA; RAID 0, 1	Adaptec 7902W dual channel Ultra 320SCSI w/host RAID Intel ICH5R for 2 SATA RAID 0, 1	Intel ICH5R for 2 SATA RAID 0, 1	Adaptec 7902W dual channel Ultra 320SCSI w/host RAID (X6DA8-G only) Intel ICH5R for 2 SATA RAID 0, 1	Adaptec AIC-8130 for 8 SATA RAID 0, 1, 10 (X6DAT-G only) Intel 6300ESB for 2 SATA RAID 0, 1
Zero Channel RAID (ZCR) card support	AOC-LPZCR2 (X6DA3-G2 only)	AOC-LPZCR1 or AOC-2020S	N/A	AOC-LPZCR1 or AOC-2020S (X6DA8-G only)	AOC-LPZCR1 or AOC-2020SA (X6DAT-G)
Onboard LAN	Dual LAN w/Intel 82546GB Gigabit Ethernet	Dual LAN w/Intel 82546GB Gigabit Ethernet	Dual LAN w/Intel 82546GB Gigabit Ethernet	Intel 82545GM Gigabit Ethernet	Intel 82541GI Gigabit Ethernet
Onboard VGA	N/A	N/A	N/A	N/A	N/A
Built-in EIDE/ USB ports	ATA100/ Up to 8 USB 2.0 ports	ATA100/ Up to 8 USB 2.0 ports	ATA100/ Up to 8 USB 2.0 ports	ATA100/ Up to 8 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound
Manageability	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 8-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM

Optimized Chassis Highlights

SUPER● SC743S1-645
- 8 hot-swap SCA bays
- 90-degree rotatable drive bay module
- 645W low-noise power supply
- Hot-swap redundant PWM cooling fans
- 4U x 25.5"/Tower

SUPER● SC743S1-R760/650
- 8 hot-swap SCA bays
- Triple redundant 760W power w/I²C mgt. (R760 only)
- 6 Hot-swap fans for 100% cooling redundancy
- Tool-less PCI & rotatable drive bay module
- 4U x 25.5"/Tower

SUPER● SC942i-R760/550
- Flexible for SCA/SATA via mobile rack
- Triple redundant 760W power w/I²C mgt. (R760 only)
- Fan speed control
- 4U x 23.8"/Tower

SUPER● SC733T-645
- 4 hot-swap SATA bays
- 645W low-noise power supply
- 4-wire Pulse Width Modulated (PWM) fans
- Mid tower: 7" x 16.8" x 20.9"

SUPER● SC742i-600/S-600
- 7 fixed/7 dual-channel (3+4) hot-swap SCA (SAT-TE compliant) & 4 x 5.25" drive bays
- 600W triple redundant power
- Hot-swap cooling fans
- 4U x 23.8"/Tower

SUPER● SC833S-R760
- 8 hot-swap SCA bays (SAF-TE compliant)
- Triple redundant 760W power w/ I²C mgt.
- 6 Hot-swap fans for 100% cooling redundancy
- Air-shroud for better cooling
- 3U x 25.5"

Key Features & Accessories

MB Chassis	X6DA8-G2/G	X6DAT-G2/G	X6DAE-G2/G & X6DAi-G	Fan Setting
SC743-645	**SC743S1-645 - Cost-effective & extreme low-noise** • 8 hot-swap SCA drive bays • 645W low-noise power supply • Passive heatsink: SNK-P00010*	**SC743T-645 - Cost-effective & extreme low-noise** • 8 hot-swap SATA drive bays • 645W low-noise power supply • Passive heatsink: SNK-P0010*	**SC743i-645 - Cost-effective & extreme low-noise** • 2 fixed drive cartridges (up to 8 HDD) • 645W low-noise power supply • Passive heatsink SNK-P0010*	4-pin SuperQuiet/ 4-pin Quiet Workstation
SC743-R760	**SC743S1-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SCA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	**SC743T-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SATA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	**SC743i-R760 - High-performance & 100% cooling redundancy** • 2 fixed drive cartridges (up to 8 HDD) • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	3-pin Server/ Wokstation
SC743-650	**SC743S1-650 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SCA drive bays • 650W redundant cooling power supply • Passive heatsink: SNK-P0010*	**SC743T-650 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SATA drive bays • 650W redundant cooling power supply • Passive heatsink: SNK-P0010*	**SC743i-650 - Cost-effective & 100% cooling redundancy** • 2 fixed drive cartridges (up to 8 HDD) • 650W redundant cooling power supply • Passive heatsink: SNK-P0010*	3-pin Server/ Workstation
SC942-R760	**SC942i-R760 - High-performance & flexible HD mobile racks** • 5 hot-swap SCA drive bays (optional: CSE-M35S) • Triple redundant 760W power supply with I²C for remote mgt. • Active heatsink: SNK-P0008A* • SCSI cable :CBL-0043*	**SC942i-R760 - High-performance & flexible HD mobile racks** • 5 hot-swap SCA drive bays (optional CSE-M35T) • Triple redundant 760W power supply with I²C for remote mgt. • Active heatsink: SNK-P0008A*	**SC942i-R760 - High-performance & flexible HD mobile racks** • 9 5.25" drive bays flexible for IDE/SATA devices • Triple redundant 760W power supply with I²C for remote mgt. • Active heatsink: SNK-P0008A*	3-pin Server/ Workstation
SC733-645	N/A	**SC733T-645 - Cost-effective & low-noise** • 4 hot-swap SATA drive bays • 645W low-noise power supply • Active heatsink: SNK-P0008A4*	**SC733i-645 - Cost-effective & low-noise** • 4 fixed drive bays • 645W low-noise power supply • Active heatsink: SNK-P0008A4*	4-pin Quiet Workstation
SC733-450	N/A	**SC733T-450 - Cost-effective & low-noise** • 4 hot-swap SATA drive bays • 450W redundant cooling low-noise power supply • Active heatsink: SNK-P0008A4*	**SC733i-450 - Cost-effective & low-noise** • 4 fixed drive bays • 450W redundant cooling low-noise power supply • Active heatsink: SNK-P0008A4*	4-pin Quiet Workstation
SC742-600	**SC742S-600 - Power redundancy** • 7 hot-swap SCA drive bays • Triple redundant 600W power supply • Active heatsink: SNK-P0008A*	N/A	**SC742i-600 - Power redundancy** • 2 fixed drive cartridges (up to 7 HDD) • Triple redundant 600W power supply • Active heatsink: SNK-P0008A*	3-pin Server
SC742-650/ 450	N/A	**SC742T-650 - Cost-effective** • 7 hot-swap SATA drive bays • 550W redundant cooling power supply • Active heatsink: SNK-P0008A*	**SC742i-450 - Cost-effective & low-noise** • 2 fixed drive cartridges (up to 7 HDD) • 450W redundant cooling low-noise power supply • Active heatsink: SNK-P0008A*	3-pin Workstation
SC833-R760	**SC833S-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SCA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	**SC833T-R760 - High-performance & 100% cooling redundancy** • 8 hot-swap SATA drive bays • Triple redundant 760W power supply with I²C for remote mgt. • Passive heatsink: SNK-P0010*	N/A	3-pin Server/ Workstation
SC833-550	**SC833S-550 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SCA drive bays • 550W power supply • Passive heatsink: SNK-P0010*	**SC833T-550 - Cost-effective & 100% cooling redundancy** • 8 hot-swap SATA drive bays • 550W power supply • Passive heatsink: SNK-P0010*	N/A	3-pin Server/ Workstation

Note: Optional Rail Kit CSE-PT26(B) and Floppy Drive are available for SC743, SC742 and SC942 series chassis
* Sold separately
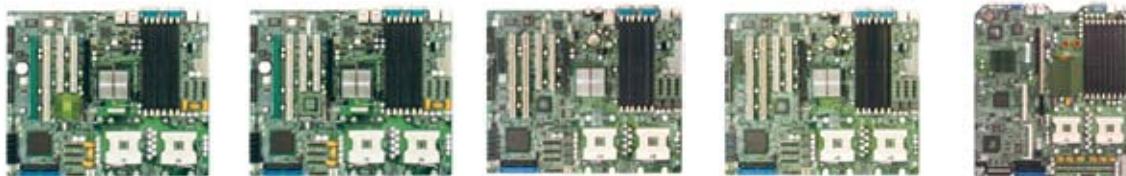
MODEL	X6DAL-TB2	X6DAL-B2	X6DAL-TG X6DAL-G	X6DAL-XTG/ X6DAL-XG	X6DAR-8G X6DAR-iG
Processor	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz	Dual 64-bit Xeon up to 3.80GHz
Chipset/ System Bus	Intel E7525 800MHz	Intel E7525 800MHz	Intel E7525 800MHz	Intel E7525 800MHz	Intel E7525 800MHz
Form Factor	ATX 12" x 10"	ATX 12" x 10"	ATX 12" x 10"	ATX 12" x 10"	Ext. ATX 12" x 13.05"
Optimized Chassis	Mid tower: SC733T-450 SC733T-645 1U: SC811T-420	Mid tower: SC733i-450 SC733i-645 1U: SC811T-420 SC811i-420	Mid tower: SC733T-450 SC733T-645	X6DAL-XTG Mid tower: SC733T-450/645 X6DAL-XG Mid tower: SC733i-450/645	X6DAR-8G 1U: SC812S-420, SC813S-500 X6DAR-iG 1U: SC812i-420, SC812L-420
Memory Capacity & Slots	12 GB ECC Reg. DDRII 400 SDRAM in 6 DIMMs	12 GB ECC Reg. DDRII 400 SDRAM in 6 DIMMs	12/24 GB ECC Reg. DDR333/266 SDRAM in 6 DIMMs	12/24 GB ECC Reg. DDR333/266 SDRAM in 6 DIMMs	16/32 GB ECC Reg. DDR333/266 SDRAM in 8 DIMMs
Expansion Slots	1 PCI Express x16 2 PCI-X 66MHz 2 PCI 33MHz	1 PCI Express x16 2 PCI-X 66MHz 2 PCI 33MHz	1 PCI Express x16 1 PCI Express x8 2 PCI-X 66MHz 2 PCI 33MHz	1 PCI Express x16 2 PCI-X 66MHz 2 PCI 33MHz	1 PCI Express x16 1 PCI Express x4 1 universal PCI-X 133MHz
Onboard SCSI/ SATA/SATA RAID	Adaptec AIC-8130 controller for 4 SATA RAID 0, 1 Intel 6300ESB SATA controller for 2 SATA; RAID 0, 1	Intel 6300ESB SATA controller for 2 SATA RAID 0, 1	Adaptec AIC-8130 controller for 4 SATA RAID 0, 1 (X6DAL-TG only) Intel 6300ESB SATA controller for 2 SATA; RAID 0, 1	Adaptec AIC-8130 controller for 4 SATA RAID 0, 1 (X6DAL-XTG only) Intel 6300ESB SATA controller for 2 SATA; RAID 0, 1	Adaptec 7902W dual-channel Ultra320 SCSI w/host RAID (X6DAR-8G) Intel ICH5R for 2 SATA RAID 0, 1
Zero Channel RAID (ZCR) card support	AOC-LPZCR1 or AOC-2020SA	N/A	N/A	N/A	AOC-SOZCR1 or AOC-2025S (X6DAR-8G)
Onboard LAN	Dual LAN w/Broadcom 5721 PCI Express Gigabit Ethernet	Dual LAN w/Broadcom 5721 PCI Express Gigabit Ethernet	Intel 82541GI Gigabit Ethernet	Intel 82541GI Gigabit Ethernet	Dual LAN with Intel 82546GB Gigabit Ethernet controller
Onboard VGA	N/A	N/A	N/A	N/A	ATI Rage XL 8MB PCI graphic controller
Built-in EIDE/ USB ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports	ATA100/ Up to 4 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.
Manageability	Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5Vstandby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, ±12V, +5V standby and 5-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	3-pin fan speed control & overheat LED indication
Other Features	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection
BIOS	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	AMI 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM

SUPER● SC733T-645
- 4 hot-swap SATA bays
- 645W low-noise power supply
- 4-wire Pulse Width Modulated (PWM) fans
- Mid tower: 7" x 16.8" x 20.9"

SUPER● SC743T-645
- 8 hot-swap SATA bays
- 90-degree rotatable drive bay module
- 645W low-noise power supply
- Hot-swap redundant PWM cooling fans
- 4U x 25"/Tower

SUPER● SC742i-450
- 7 fixed & 4 x 5.25" drive bays
- 450W redundant cooling low-noise power
- Hot-swap cooling fans
- 4U x 23.8"/Tower

SUPER● SC813S-500
- 4 hot-swap SCA bays
- 500W cold swap power supply w/I^{2}C mgt.
- 2 PCI-X/Express slots
- 1 slim CD & 1 slim floppy drive
- 1U x 25.6"
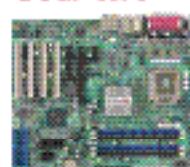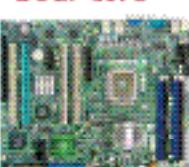
Key Features & Accessories

MB Chassis	X6DAL-XTG/TG/TB2	X6DAL-G/B2/XG	X6DAR-8G/iG	Fan Setting
SC733-645	**SC733T-645 - Cost-effective & extreme low-noise** • 4 hot-swap SATA drive bays • 645W low-noise power supply • Active heatsink: SNK-P0008A4*	**SC733i-645 - Cost-effective & extreme low-noise** • 4 fixed drive bays • 645W low-noise power supply • Active heatsink: SNK-P0008A4*	N/A	4-pin SuperQuiet/ 4-pin Quiet Workstation
SC733-450	**SC733T-450 - Cost-effective & low-noise** • 4 hot-swap SATA drive bays • 450W redundant cooling low-noise power supply • Active heatsink: SNK-P0008A4*	**SC733i-450 - Cost-effective & low-noise** • 4 fixed drive bays • 450W redundant cooling low-noise power supply • Active heatsink: SNK-P0008A4*	N/A	4-pin Quiet Workstation
SC743-645	**SC743T-645 - Cost-effective & low-noise** • 8 hot-swap SATA drive bays • 645W low-noise power supply • Passive heatsink: SNK-P0010* • Fan power cable CBL-0088*	**SC743i-645 - Cost-effective & low-noise** • 2 fixed drive cartridges (Up to 8 HDD) • 645W low-noise power supply • Passive heatsink: SNK-P0010* • Fan power cable CBL-0088*	N/A	4-pin Quiet Workstation
SC742-450	N/A	**SC742i-450 - Cost-effective & low-noise** • 2 fixed drive cartridges (Up to 7 HDD) • 450W redundant cooling low-noise power supply • Active heatsink: SNK-P0008A*	N/A	3-pin Workstation
SC811-420	**SC811T-420 - Cost-effective & 1U** (X6DAL-TB2 only) • 2 hot-swap SATA drive bays • 420W power supply • 1U Passive heatsink: SNK-P0009* • 1U PCI-Express x16 riser card CSE-RR1U-E16*	**SC811i-420 - Cost-effective & 1U** (X6DAL-B2 only) • 2 fixed drive bays • 420W power supply • 1U Passive heatsink: SNK-P0009* • 1U PCI-Express x16 riser card CSE-RR1U-E16*	N/A	3-pin Server/ Workstation

SC813-500	N/A	N/A	**SC813S-500 - High performance & PCI-X/PCI-Express**
			(X6DAR-8G only)
			• 4 hot-swap SCA drive bays
			• 500W cold-swap power supply with I^{2}C mgt.
			• 1U Passive heatsink: SNK-P0009*
			• 1U riser cards*:
			  PCI-X: CSE-RR1U-X
			  PCI-X low profile: CSE-RR1U-XLP
			  PCI-Express: CSE-RR1U-EL
			  PCI-Express low profile: CSE-RR1U-ELP
				3-pin Server

SC812-420	N/A	N/A	**SC812S/i-420 - Cost-effective & PCI-X/PCI-Express**
			• 3 hot-swap SCA drive bays / 3 fixed drive bays
			• Front side USB ports & COM port
			• 420W power supply
			• Optional slim CDROM & slim floppy
			• 1U Passive heatsink: SNK-P0009*
			• 1U riser cards*:
			  PCI-X: CSE-RR1U-X
			  PCI-X low profile: CSE-RR1U-XLP
			  PCI-Express: CSE-RR1U-EL
			  PCI-Express low profile: CSE-RR1U-ELP
				3-pin Server

SC812L-420	N/A	N/A	**SC812L-420 - Cost-effective & PCI-X/PCI-Express**
			(X6DAR-iG only)
			• 3 internal drive bays
			• 420W power supply
			• 1U Passive heatsink: SNK-P0009*
			• 1U riser cards*:
			  PCI-X: CSE-RR1U-X
			  PCI-X low profile: CSE-RR1U-XLP
			  PCI-Express: CSE-RR1U-EL
			  PCI-Express low profile: CSE-RR1U-ELP
				3-pin Server

Note: Optional Rail Kit CSE-PT26(B) and Floppy Drive are available for SC743, SC742 and SC942 series chassis
* Sold separately

SUPER●
SERVER
SOLUTION

MODEL	PDSM4+	PDSME+	PDSMi+	PDSBA	PDSBE
Processor	Intel core 2 Duo Processor E6000 & dual core Xeon 3000 Sequence Pentium D, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Intel core 2 Duo Processor E6000 & dual core Xeon 3000 Sequence Pentium D, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Intel core 2 Duo Processor E6000 & dual core Xeon 3000 Sequence Pentium D, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Intel core 2 Duo Processor E6000 & dual core Xeon 3000 Sequence Pentium D, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Intel core 2 Duo Processor E6000 & dual core Xeon 3000 Sequence Pentium D, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz
Chipset/ System Bus	Intel E3010 1066/800/533MHz	Intel E3010 1066/800/533MHz	Intel E3000 1066/800/533MHz	Intel G965 1066/800/533MHz	Intel P965 1066/800/533MHz
Form Factor	ATX 12" x 9.6"	ATX 12" x 9.6"	ATX 12" x 9.6"	ATX 11.5" x 9.6"	ATX 11.5" x 9.6"
Optimized Chassis	2U: SC825-R500LP/550LP 4U/Tower: SC742S-420	2U: SC825-R500LP/550LP SC826-550LP 4U/tower: SC742TGC/742S-420 Mid-tower: SC733T-645/450 SC733i-645/450	1U: SC512F-260, SC513F-260 SC811F-300, SC813MFT-300C Mid-tower: SC733T-645/450 SC733i-645/450	Mid-tower: SC733T-645/450 SC733i-645/450	Mid-tower: SC733T-645/450 SC733i-645/450
Memory Capacity & Slots	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII800/667/533 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII800/667/533 SDRAM in 4 DIMMs
Expansion Slots	1 PCI-Express x8 1 PCI-Express x4 2 64-bit PCI-X 133MHz 2 64-bit PCI-X 100MHz	1 PCI-Express x8 1 PCI-Express x4 2 64-bit PCI-X 133MHz 2 64-bit PCI-X 100MHz	1 Universal PCI-X 133MHz or PCI-Express x8 1 32-bit PCI 33MHz	1 PCI-Express x16 1 PCI-Express x4 (using x8) 1 PCI-Express x1 4 32-bit PCI 33MHz	1 PCI-Express x16 1 PCI-Express x4 (using x8) 1 PCI-Express x1 4 32-bit PCI 33MHz
Onboard SCSI/SATA/ SATA RAID	Adaptec Ultra320 SCSI w/host RAID; RAID 0, 1 Intel ICH7R SATA for 4 SATA (3 Gbps); RAID 0, 1, 5, 10	Intel ICH7R SATA for 4 SATA (3 Gbps); RAID 0, 1, 5, 10	Intel ICH7R SATA for 4 SATA (3 Gbps), RAID 0, 1, 5, 10	Intel ICH8 controller for 4 SATA (3 Gbps)	Intel ICH8 controller for 4 SATA (3 Gbps)
Zero Channel RAID (ZCR) card supported	AOC-LPZCR2 or AOC-LPZCR1	N/A	N/A	N/A	N/A
Onboard LAN	Dual LAN w/Intel 82573 PCI-Express Gigabit Ethernet	Dual LAN w/Intel 82573 PCI-Express Gigabit Ethernet	Dual LAN w/Intel 82573 PCI-Express Gigabit Ethernet	Intel 82573 PCI-Express Gigabit Ethernet	Intel 82573 PCI-Express Gigabit Ethernet
Onboard VGA	ATI ES1000 16MB PCI Graphics controller	ATI ES1000 16MB PCI Graphics controller	ATI ES1000 16MB PCI Graphics controller	On-chip Integrated Gfx Graphics	On-chip Integrated Gfx Graphics
Built-in EIDE/ USB ports	ATA100/USB 2.0 w/up to 4 USB ports	ATA100/USB 2.0 w/up to 4 USB ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 10 USB ports	ATA100/USB 2.0 w/up to 10 USB ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn. 7.1 channel HD-audio	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn. 7.1 channel HD-audio
Manageability	SIM1U slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	SIM1U slot (IPMI 2.0)[†] Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog Super●Doctor III	Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +1.5V +1.8V +3.3V, +5V, +12V, -12V, VBAT, +5V standby and total of six 4-pin fan headers with 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.5V +1.8V +3.3V, +5V, +12V, -12V, VBAT, +5V standby and total of six 4-pin fan headers with 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.5V +1.8V +3.3V, +5V, +12V, -12V, VBAT, +5V standby and total of six 4-pin fan headers with 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V +3.3V, +5V, +12V, -12V, VBAT & +5V standby and total of three 4-pin fan headers with 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V +3.3V, +5V, +12V, -12V, VBAT & +5V standby and total of three 4-pin fan headers with 3-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM

Optimized Chassis Highlights

SUPER● SC823S-400LP
- 6 hot-swap SCA drive bays
- 400W power supply
- 4 high-performance hot-swap fans
- 7 low-profile slots
  2U x 25"

SUPER● SC823S-R400LP
- 6 hot-swap SCA drive bays
- Redundant 400W power supply
- 4 high-performance hot-swap fans
- 7 low-profile slots
- 2U x 25"

SUPER● SC742S-450
- 7 hot-swap SCA bays
- 600W + 300W triple redundant power supply
- Hot-swap cooling fans
- 4U x 24.2"/Tower

SUPER● SC512F-260
- 1 x 3.5" fixed bay
- 260W power supply
- 1 full-height & half-length slot
- 1U x 14"

SUPER● SC513F-260
- Front I/O Access
- 1 x 3.5" fixed or 2 x 2.5" option bays
- 260W power supply
- 1 full-height & half-length slot
- 1U x 14"
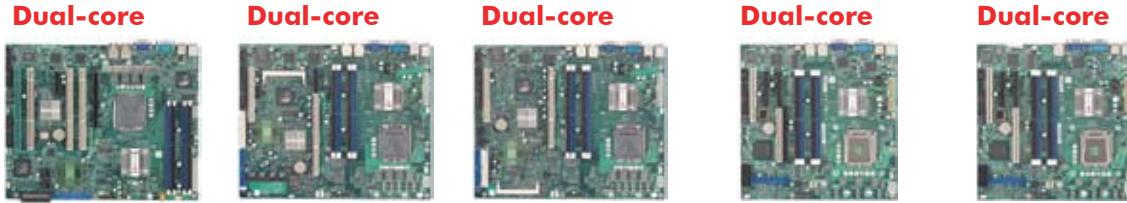
SUPER● SC813MFT-300C
- 4 hot-swap SCA drive bays
- 300W power supply
- 4 high-performance hot-swap fans
- Front USB 2.0 & serial ports
- 1U x 19.85"

Key Features & Accessories

MB / Chassis	PDSMi+	PDSM4+/PDMSE+	PDSBA/PDSBE	Fan Setting
SC512F	**SC512F-260 Cost-effective Mini 1U** • 1 x 3.5" fixed bay • 260 power supply • 1 full-height & half-length slot • Passive heatsink: SNK-P0016 • CSE-RR1U-X	N/A	N/A	3-pin Server
SC513F	**SC513F-260 Cost-effective Mini 1U** • 1 x 3.5" fixed or 2 x 2.5" option bays • 260 power supply • 1 full-height slot • Passive heatsink: SNK-P0016 • CSE-RR1U-X	N/A	N/A	3-pin Server
SC811	**SC811F-300 Cost-effective 1U** • 2 hot-swap bays • 300 power supply • 1 full-height slot • Passive heatsink: SNK-P0016 • CSE-RR1U-X	N/A	N/A	3-pin Server
SC813	**SC813MFT-300C 1U x 19.85" Chassis** • 4 hot-swap bays • 300 power supply • 1 full-height slot • Passive heatsink: SNK-P0016 • CSE-RR1U-X	N/A	N/A	3-pin Server
SC823S	N/A	**SC823S-R500LP/SC823S-550LP (PDSM4+ only)** **SC823T-R500LP/SC823T-550LP/SC823i-550LP (PDSME+ only) - High-performance & power redundancy** • 6 hot-swap SCA/SATA drive bays (SC823S/SC823T) • 6 fixed drive bays (SC823i) • Redundant 500 power supply (SC823S/SC823T-R500LP) • 550W power supply (SC823S/SC823T/SC823i-550LP) • 7 low-profile expansion slots • Active heatsink: SNK-P0015A4*	N/A	3-pin Server
SC742	N/A	**SC742S-420 (PDSM4+ only)** **SC742T/SC742i-450 (PDSME+ only) - Cost-effective & low-noise** • 7 hots-swap SCA drive bays • 420W power suppply (SC742S-420) • 450W power supply (SC742T-450) • 450W low-noise power supply (SC742i-450) • Active heatsink: SNK-P0015A4*	**SC742i-450 - Cost-effective & low-noise** • 7 hots-swap SCA drive bays • 450W low-noise power supply • Active heatsink: SNK-P0015A4*	3-pin server
SC733	N/A	**SC733T-645/SC733T-450 & SC733i-645/450 - (PDSME+only) Cost-effective & extreme low-noise** • 4 hots-swap SAS/SATA drive bays (SC733T-645/450) • 4 fixed drive bays (SC733i-645/450) • 645W low-noise power supply (SC733T-645/450) • 450W low-noise power supply (SC733i-645/450) • Active heatsink: SNK-P0015A4*	**SC733T-645/SC733T-450/SC733i-645/SC733i-450 - Cost-effective & extreme low-noise** • 4 hots-swap SAS/SATA drive bays (SC733T-645/SC733T-450) • 4 fixed drive bays (SC733i-645/SC733i-450) • 645W low-noise power supply (SC733T-645/SC733T-645) • 450W low-noise power supply (SC733i-450/SC733i-450) • Active heatsink: SNK-P0015A4*	3-pin Server

* Sold Separately

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MODEL	PDSM4/PDSME	PDSMi	PDSMi-LN4	PDSML-LN2	PDSML-LN1
	Dual-core	**Dual-core**	**Dual-core**	**Dual-core**	**Dual-core**
Processor	Pentium D, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Pentium D, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Pentium D, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Pentium D, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Pentium D, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz
Chipset/ System Bus	Intel E7230 1066/800/533MHz	Intel E7230 1066/800/533MHz	Intel E7230 1066/800/533MHz	Intel E7230 1066/800/533MHz	Intel E7230 1066/800/533MHz
Form Factor	ATX 12" x 9.6"	ATX 12" x 9.6"	ATX 12" x 9.6"	Micro ATX 9.6" x 9.6"	Micro ATX 9.6" x 9.6"
Optimized Chassis	PDSM4 2U: SC822S-R400LP/400LP 4U/Tower: SC742S-600/500 SC742S-450 PDSME 2U: SC822i-400LP Mid-tower: SC733T-645/450 SC733i-645/450	1U: SC811T-300 SC513F-260 (OEM) SC512F-260 (OEM) SC813MFT-300C (OEM)	Mini 1U: SC513F-260 (OEM)	1U: SC813MFT-300C (OEM) Mini 1U : SC513F-260 (OEM) SC512F-260 (OEM)	1U: SC811T-300 SC813MFT-300C (OEM) Mini 1U: SC513F-260 (OEM) SC512F-260 (OEM)
Memory Capacity & Slots	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs
Expansion Slots	1 PCI-Express x4 2 64-bit PCI-X 133MHz 2 64-bit PCI-X 100MHz	1 Universal PCI-X 133MHz or1 PCI-Express x8 1 32-bit PCI 33MHz	1 64-bit PCI-X 133MHz 1 32-bit PCI 33MHz	1 PCI-Express x8 1 PCI-Express x4 (using x8 slot) 2 32-bit PCI 33MHz	1 PCI-Express x8 1 PCI-Express x4 (using x8 slot) 2 32-bit PCI 33MHz
Onboard SCSI/SATA/ SATA RAID	Adaptec Ultra320 SCSI w/host RAID; RAID 0, 1(PDSM4 only) Intel ICH7R SATA for 4 SATA (3 Gbps); RAID 0, 1, 5, 10	Intel ICH7R controller for 4 SATA (3 Gbps); RAID 0, 1, 5, 10	Intel ICH7R controller for 4 SATA (3 Gbps); RAID 0, 1, 5, 10	Intel ICH7R controller for 4 SATA (3 Gbps); RAID 0, 1, 5, 10	Intel ICH7R controller for 4 SATA (3 Gbps); RAID 0, 1, 5, 10
Zero Channel RAID (ZCR) card supported	AOC-LPZCR2 or AOC-LPZCR1 (PDSM4 only)	N/A	N/A	N/A	N/A
Onboard LAN	Dual LAN w/Intel 82573 PCI-Express Gigabit Ethernet	Dual LAN w/Intel 82573 PCI-Express Gigabit Ethernet	**Four LAN** w/Intel 82573 PCI-Express Gigabit Ethernet	Dual LAN w/Intel 82573 PCI-Express Gigabit Ethernet	Intel 82573 PCI-Express Gigabit Ethernet
Onboard VGA	ATI Rage XL 8MB PCI Graphics controller	ATI Rage XL 8MB PCI Graphics controller	ATI Rage XL 8MB PCI Graphics controller	XGI 16MB XG20 DDR graphic controller	XGI 16MB XG20 DDR graphic controller
Built-in EIDE/ USB ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 6 USB ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.
Manageability	Low-profile IPMI 2.0 slot w/3rd LAN support, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 slot, Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, and total of five 4-pin fan headers with 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, VBAT, +3.3V & +5V standby and total of six 4-pin fan headers with 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, VBAT, +3.3V & +5V standby and total of six 4-pin fan headers with 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, VBAT, +3.3V & +5V standby and total of six 4-pin fan headers with 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, VBAT, +3.3V & +5V standby and total of six 4-pin fan headers with 6-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM or 3-pin fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM	Phoenix 8 Mb Flash ROM

Optimized Chassis Highlights

SUPER● SC811T-300
- 2 hot-swap SAS/SATA bays
- 300W power supply
- 3 counter-rotating fans
- 1U x 22.6" cost-effective solution

SUPER● SC822S-R400LP
- 6 hot-swap SCA drive bays
- Redundant 400W power supply
- 4 high-performance hot-swap fans
- 7 low-profile slots
- 2U x 25"

SUPER● SC742S-450
- 7 hot-swap SCA bays
- 450W low-noise power supply
- Hot-swap cooling fans
- 4U x 24.2"/Tower

SUPER● SC733T-450
- 4 hot-swap SATA bays
- 450W low-noise power supply
- 1 x 12cm & 1 x 9cm exhaust thermal fans
- Mid tower: 7" x 16.8" x 20.9"

SUPER● SC743S1-645
- 8 hot-swap SCA bays
- 90-degree rotatable drive bay module
- 645W low-noise power supply
- Hot-swap redundant PWM cooling fans
- 4U x 25"/Tower

SUPER● SC733i-645
- 4 x 3.5 fixed bays
- 645W low-noise power supply
- Hot-swap redundant cooling fans
- Mid tower: 7" x 16.8" x 20.9"

Key Features & Accessories

MB Chassis	PDSM4/PDSME/PDSMA	PDSMi//PDSMi-LN4	Fan Setting
SC513	N/A	**SC513F-260 - Cost-effective Mini 1U (PDSMi-LN4 only)** • 1 x 3.5" fixed or 2 x 2.5" option drive bays • 260W power supply • 1U Passive heatsink: SNK-P0016 • 1U PCI-X riser card: CSE-RR1U-Xi • 1U PCI-E riser card: CSE-RR1U-ELi	3-pin Server
SC811	N/A	**SC811T-300 - Cost-effective 1U** • 2 hot-swap SAS/SATA drive bays • 300W power supply • 1U Passive heatsink: SNK-P0016 • 1U PCI-E riser card: CSE-RR1U-ELi	3-pin Server
SC822S	**SC822S-R400LP/SC822S-400LP - High-performance & power redundancy (PDSM4 only)** **SC822i-400LP - High-performance & power redundancy (PDSME only)** • 6 hot-swap SCA drive bays (SC822S) • 6 fixed drive bays (SC822i) • Redundant 400 power supply (SC822S-R400LP) • 400W power supply (SC822S/SC822i-400LP) • 7 low-profile expansion slots • Active heatsink: SNK-P0015A4*	N/A	4-pin Server
SC743	**SC743S1-645/SC743S1-650/SC743S1-R760 - Extreme low-noise & workstation (PDSM4 only)** • 8 hots-swap SCA drive bays • 645W low-noise power supply (SC743S1-645) • 650W power supply (SC743S1-650) • Triple redundant 760W power supply (SC743S1-R760) • Active heatsink: SNK-P0015A4*	N/A	SC743S1-645: 4-pin Server SC743S1-650/ SC743S1-R760: 4-pin Server
SC742	**SC742S-600/SC742S-500/SC742S-450 - Cost-effective & low-noise (PDSM4 only)** • 7 hots-swap SCA drive bays • Triple redundant 600W power suppply (SC742S-600) • 500W power supply (SC742S-500) • 450W low-noise power supply (SC742S-450) • Active heatsink: SNK-P0015A4*	N/A	4-pin Server or 3-pin server
SC733	**SC733T-645/SC733i-645/SC733T-450/SC733i-450 -** **Cost-effective & extreme low-noise (PDSME/PDSMA only)** • 4 hots-swap SAS/SATA drive bays (SC733T-645/SC733T-450) • 4 fixed drive bays (SC733i-645/SC733i-450) • 645W low-noise power supply (SC733T-645/SC733i-645) • 450W low-noise power supply (SC733i-450/SC733i-450) • Active heatsink: SNK-P0015A4*	N/A	4-pin Server

* Sold Separately

SUPER● SERVER SOLUTION
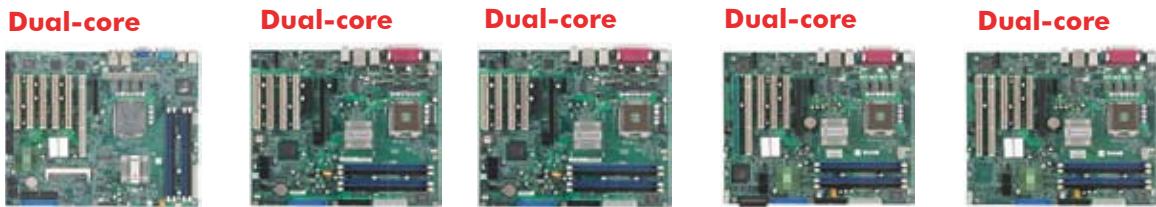
MODEL	PDSMA	PDSLA	PDSLE	PDSG4	PDSGE
Processor	Pentium D, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Pentium D, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Pentium D, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/Celeron D up to 3.06GHz	Pentium D, Pentium Extreme, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/ Celeron D up to 3.06GHz	Pentium D, Pentium Extreme, Pentium 4 Extreme, Pentium 4 up to 3.80GHz/ Celeron D up to 3.06GHz
Chipset/ System Bus	Intel E7230 1066/800/533MHz	Intel 945G 1066/800/533MHz	Intel 945P 1066/800/533MHz	Intel 955X 1066/800/533MHz	Intel 955X 1066/800/533MHz
Form Factor	ATX 12" x 9.6"	ATX 11.5" x 9.5"	ATX 11.5" x 9.5"	ATX 12" x 9.6"	ATX 12" x 9.6"
Optimized Chassis	4U/Tower: SC742i-420 Mid-Tower: SC733T-645/450, SC733i-645/450	Mid-tower: SC733T-645/450 SC733i-645/450	Mid-tower: SC733T-645/450 SC733i-645/450	4U/Tower: SC743S1-645	4U/Tower: SC743T/i-645 Mid-tower: SC733T-645/450 SC733i-645/450
Memory Capacity & Slots	Dual-channel DDRII 8 GB Unb. ECC, non-ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 4 GB Unb. DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 4 GB Unb. DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC DDRII667/533/400 SDRAM in 4 DIMMs	Dual-channel DDRII 8 GB Unb. ECC DDRII667/533/400 SDRAM in 4 DIMMs
Expansion Slots	1 64-bit PCI-X 133MHz 1 PCI-Express x8 5 32-bit PCI 33MHz	1 PCI-Express x16 1 PCI-Express x1 (using x8) 1 PCI-Express x1 4 32-bit PCI 33MHz	1 PCI-Express x16 1 PCI-Express x1 (using x8) 1 PCI-Express x1 4 32-bit PCI 33MHz	1 PCI-Express x16 1 PCI-Express x1 2 64-bit PCI-X 100MHz 3 32-bit PCI 33MHz	1 PCI-Express x16 1 PCI-Express x1 2 64-bit PCI-X 133MHz 3 32-bit PCI 33MHz
Onboard SCSI/SATA/ SATA RAID	Intel ICH7R controller for 4 SATA (3 Gbps); RAID 0, 1, 5, 10	Intel ICH7 controller for 4 SATA (3 Gbps)	Intel ICH7 controller for 4 SATA (3 Gbps)	Adaptec U320 SCSI w/host RAID; RAID 0, 1 Intel ICH7R controller for 4 SATA (3 Gbps); RAID 0, 1, 5, 10	Intel ICH7R controller for 4 SATA (3 Gbps); RAID 0, 1, 5, 10
Zero Channel RAID (ZCR) card supported	N/A	N/A	N/A	AOC-LPZCR1 or AOC-2020S	N/A
Onboard LAN	Dual LAN w/Intel 82573 PCI-Express Gigabit Ethernet	Intel 82573 PCI-Express Gigabit Ethernet	Intel 82573 PCI-Express Gigabit Ethernet	Intel 82573 PCI-Express Gigabit Ethernet	Intel 82573 PCI-Express Gigabit Ethernet
Onboard VGA	ATI Rage XL 8MB PCI Graphics controller	Integrated Gfx graphics	N/A	N/A	N/A
Built-in EIDE/ USB ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 8 USB ports	ATA100/USB 2.0 w/up to 8 USB ports	ATA100/USB 2.0 w/up to 8 USB ports	ATA100/USB 2.0 w/up to 8 USB ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC w/high quality 6-channel sound (front-side header)	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC w/high quality 6-channel sound (front-side header)	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC w/high quality 6-channel sound (front-side header)	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC w/high quality 6-channel sound (front-side header)
Manageability	IPMI 2.0 socket, Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III	Watch Dog, Super●Doctor III
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, VBAT, +3.3V & +5V standby and total of six 4-pin fan headers with 6-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.5V +3.3V, +5V, +12V, -12V, VBAT, 3.3V & +5V standby and total of three 4-pin fan headers with 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.5V +3.3V, +5V, +12V, -12V, VBAT, 3.3V & +5V standby and total of three 4-pin fan headers with 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, VBAT, +3.3V & +5V standby and total of five 4-pin fan headers with 5-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V, -12V, VBAT, +3.3V & +5V standby and total of five 4-pin fan headers with 5-fan status, supports system management utility, chassis intrusion header
Thermal Control	4-pin PWM or 3-pin fan speed control & overheat LED indication	4-pin PWM fan speed control & overheat LED indication	4-pin PWM fan speed control & overheat LED indication	4-pin PWM fan speed control & overheat LED indication	4-pin PWM fan speed control & overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, STR, CPU thermal trip support for processor protection, user-overclockable in BIOS	ACPI/APM power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, STR, CPU thermal trip support for processor protection, user-overclockable in BIOS	ACPI/APM power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, STR, CPU thermal trip support for processor protection, user-overclockable in BIOS	ACPI/APM power management, internal/external modem ring-on, WOR, WOL, control of power-on mode for recovery from AC power loss, STR, CPU thermal trip support for processor protection, user-overclockable in BIOS
BIOS	Phoenix 8 Mb Flash ROM	User-overclockable in BIOS Award 4 Mb Flash ROM	User-overclockable in BIOS Award 4 Mb Flash ROM	User-overclockable in BIOS Award 8 Mb Flash ROM	User-overclockable in BIOS Award 8 Mb Flash ROM

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Optimized Chassis Highlights

Super● SC733T-645
- 4 hot-swap SATA bays
- 645W low-noise power supply
- 4-wire Pulse Width Modulated (PWM) fans
- Mid tower: 7" x 16.8" x 20.9"

Super● SC743T-645
- 8 hot-swap SATA bays
- 90-degree rotatable drive bay module
- 645W low-noise power supply
- Hot-swap redundant PWM cooling fans
- 4U x 25"/Tower

Super● SC733i-450
- 4 x 3.5 fixed bays
- 450W low-noise power supply
- Hot-swap redundant cooling fans
- Mid tower: 7" x 16.8" x 20.9"

Super● SC743S1-645
- 8 hot-swap SCA bays
- 90-degree rotatable drive bay module
- 645W low-noise power supply
- Hot-swap redundant PWM cooling fans
- 4U x 25"/Tower

Super● SC733T-450
- 4 hot-swap SATA bays
- 450W low-noise power supply
- 1 x 12cm & 1 x 9cm exhaust thermal fans
- Mid tower: 7" x 16.8" x 20.9"

Super● SC733i-645
- 4 x 3.5 fixed bays
- 645W low-noise power supply
- Hot-swap redundant cooling fans
- Mid tower: 7" x 16.8" x 20.9"

Key Features & Accessories

MB Chassis	PDSLA/PDSLE/PDSMA	PDSG4	PDSGE	Fan Setting
SC743T/S	N/A	**SC743S1-645 - Cost-effective & extreme low-noise** • 8 hot-swap SATA/SCA drive bays • 645W low-noise power supply • Active heatsink: SNK-P0015A4*	**SC743T-645 - Cost-effective & extreme low-noise** • 8 hot-swap SATA drive bays • 645W low-noise power supply • Active heatsink: SNK-P0015A4*	4-pin Workstation
SC743i	N/A	N/A	**SC743i-645 - Cost-effective & extreme low-noise** • 8 fixed drive bays • 645W low-noise power supply • Active heatsink: SNK-P0015A4*	4-pin Workstation
SC733T	**SC733T-645/450 - Cost-effective & extreme low-noise** • 4 hot-swap SATA drive bays • 645W/450W low-noise power supply • Active heatsink: SNK-P0015A4*	N/A	**SC733T-645/450 - Cost-effective & extreme low-noise** • 4 hot-swap SATA drive bays • 645W/450W low-noise power supply • Active heatsink: SNK-P0015A4*	4-pin Workstation
SC733i	**SC733i-645/450 - Cost-effective & extreme low-noise** • 4 fixed drive bays • 645W/450W low-noise power supply • Active heatsink: SNK-P0015A4*	N/A	**SC733i-645/450 - Cost-effective & extreme low-noise** • 4 fixed drive bays • 645W/450W low-noise power supply • Active heatsink: SNK-P0015A4*	4-pin Workstation

* Sold Separately

	i2DML-8G2/ i2DML-iG2	X5DP8-G2/ X5DPE-G2	X5DPi-G2	X5DPR-TG2+	X5DPR-8G2+/ X5DPR-iG2+
MODEL	(image)	(image)	(image)	(image)	(image)
Processor	Dual IA-64 Itanium 2 up to 1.5GHz w/ 6M L3	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz
Chipset/ System Bus	Intel E8870/400MHz	Intel E7501/ 533/400MHz	Intel E7501/ 533/400MHz	Intel E7501/ 533/400MHz	Intel E7501/ 533/400MHz
Form Factor	Ext. 12.05" x 13.05"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"
Optimized Chassis	i2DML-8G2: 1U: SC813HS-500 2U: SC823HS-R500RC i2DML-iG2: 1U: SC813Hi-500 2U: SC823Hi-R500RC	X5DP8-G2: 2U: SC822S-400LP 3U: SC832S-R760 4U/Tower: SC742S-420, SC742S-600, SC942S-600 X5DPE-G2: 4U/Tower: SC742i-420/600	1U: SC812L-350C SC812i-400C 2U: SC822i-400RC	1U: SC813T-500	X5DPR-8G2+: 1U: SC812S-400, SC813S-500 X5DPR-iG2+: 1U: SC812L-350 SC812i-400
Memory Capacity & Slots	16 GB ECC Reg. DDR 200 SDRAM in 8 DIMMs	16 GB ECC Reg. DDR266/200 SDRAM in 8 DIMMs	16 GB ECC Reg. DDR266/200 SDRAM in 8 DIMMs	12 GB ECC Reg. DDR266/200 SDRAM in 6 DIMMs (Low-profile memory)	12 GB ECC Reg. DDR266/200 SDRAM in 6 DIMMs (Low-profile memory)
Expansion Slots	1 64-bit PCI-X 133/100 MHz	Total 6 PCI-X slots Max. up to 3 PCI-X 133MHz Default setting: 3 PCI-X 100 MHz, 3 PCI-X 66MHz	1 PCI-X 133/100MHz	1 PCI-X 133MHz 1 slim PCI 66MHz	1 PCI-X 133MHz 1 slim PCI-X 100MHz
Onboard SCSI/ SATA/SATA RAID	Dual-channel Ultra320 SCSI RAID 0, 1 (i2DML-8G2 only)	Adaptec 7902 dual-channel Ultra320 SCSI (X5DP8-G2)	N/A	Two Silicon 3112A for 4 SATA	Adaptec 7902 dual-channel Ultra320 SCSI
Zero Channel RAID (ZCR) card support	N/A	AOC-LPZCR1 or AOC-2020S (X5DP8-G2)	N/A	RAID 0, 1, 5 with Zero Channel RAID (DAC-ZCRINT)	AOC-SOZCR1 or AOC-2025S (X5DPR-8G2+)
Onboard LAN	Dual LAN with Intel 82546 Gigabit Ethernet	Dual LAN with Intel 82546 Gigabit Ethernet	Dual LAN with Intel 82546 Gigabit Ethernet	Dual LAN with Intel 82546 Gigabit Ethernet controller	Dual LAN with Intel 82546 Gigabit Ethernet controller
Onboard VGA	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
Built-in EIDE/ USB ports	ATA100/ USB 2.0 up to 6 USB ports	ATA100/Up to 5 USB ports	ATA100/Up to 5 USB ports	ATA100/Up to 5 USB ports	ATA100/Up to 5 USB ports
Other Onboard I/O Devices	2 fast UART 16550 serial	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.
Manageability	IPMI 1.5 socket, Super Doctor III, Watch Dog	IPMI 1.5 socket, Super Doctor III, Watch Dog	IPMI 1.5 socket, Super Doctor III, Watch Dog	IPMI 1.5 socket, Super Doctor III, Watch Dog	IPMI 1.5 socket, Super Doctor III, Watch Dog
PC Health Monitoring	Monitors CPU voltages, +1.5V, +1.3V, + 1.2V, +3.3V, +2.5V, +5V, +12V; standby +1.5V & 3.3V and 8-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V and +3.3V standby and 4-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V and +3.3V standby and 4-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +3.3V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header
Thermal Control	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication
Other Features	ACPI power management, internal/external modem ring-on, control of power-on mode for recovery from AC power loss	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection
BIOS	AMI 6 MB Flash ROM	Phoenix 4 Mb Flash ROM	Phoenix 4 Mb Flash ROM	Phoenix 4 Mb Flash ROM	Phoenix 4 Mb Flash ROM

SUPER● SERVER SOLUTION

	X5DPL-TGM	X5DPL-8GM / X5DPL-iGM	X5DPA-8GG	X5DPA-TGM+	X5DPA-GG	X5DMS-8GM
	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz
	Intel E7501/ 533/400MHz	Intel E7501/ 533/400MHz	Intel E7501/ 533/400MHz	Intel E7501/ 533/400MHz	Intel E7501/ 533/400MHz	Intel E7501/ 533/400MHz
	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	ATX 12" x 10"	ATX 12" x 10"	ATX 12" x 10"	Ext. ATX 12" x 13.05"
	4U: SC742T-550	X5DPL-8GM: 1U: SC813S-500C 2U: SC822S-400LP 4U/Tower: SC742S-600 X5DPL-iGM: 4U/Tower: SC742i-420/600 SC942i-550/600	1U: SC811S-350 SC813MS-420C	1U: SC813MT-420	1U: SC811i-350 4U/Tower: SC733i-450 SC742i-420	2U: SC822S-400LP 4U/Tower: SC742S-420, 3U: SC832S-550/R760
	12 GB ECC Reg. DDR266/200 SDRAM in 6 DIMMs	12 GB ECC Reg. DDR266/200 SDRAM in 6 DIMMs	8 GB ECC Reg. DDR266/200 SDRAM in 4 DIMMs	8 GB ECC Reg. DDR266/200 SDRAM in 4 DIMMs	8 GB ECC Reg. DDR266/200 SDRAM in 4 DIMMs	12 GB ECC Reg. DDR266/200 SDRAM in 6 DIMMs
	1 PCI-X 133MHz 2 PCI-X 100MHz 3 32-bit PCI 33MHz	1 PCI-X 133MHz 2 PCI-X 100MHz 3 32-bit PCI 33MHz	2 64-bit PCI-X 100MHz	5 32-bit PCI 33MHz	2 PCI-X 100MHz 2 32-bit PCI 33MHz	1 PCI-X 133MHz 2 PCI-X 100MHz 3 32-bit PCI 33MHz
	Marvell for 8 SATA RAID 0, 1, 10	Adaptec 7902 dual-channel Ultra320 SCSI (X5DPL-8GM)	Adaptec 7902 dual-channel Ultra320 SCSI	Intel ICH5R for 2 SATA RAID 0, 1 supported	N/A	Adaptec 7902 dual-channel Ultra320 SCSI
	AOC-2020SAH1	AOC-LPZCR1 or AOC-2020S (X5DPL-8GM)	AOC-LPZCR1 or AOC-2020S	N/A	N/A	AOC-LPZCR1 or AOC-2020S
	Intel 82545 Gigabit Ethernet Intel 82551 10/100 fast Ethernet	Intel 82545 Gigabit Ethernet Intel 82551 10/100 fast Ethernet	Dual Intel 82541 Gigabit Ethernet	Intel 82541 Gigabit Ethernet Intel 82551 10/100 fast Ethernet	Dual Intel 82541 Gigabit Ethernet	Intel 82544 Gigabit Ethernet Intel 82551 10/100 fast Ethernet
	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
	ATA100/Up to 5 USB ports	ATA100/Up to 5 USB ports	ATA100/Up to 5 USB ports	ATA100/Up to 5 USB ports	ATA100/Up to 5 USB ports	ATA100/Up to 5 USB ports
	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.
	IPMI 1.5 socket, Super●Doctor III, Watch Dog	IPMI 1.5 socket, Super●Doctor III, Watch Dog	IPMI 1.5 socket, Super●Doctor III, Watch Dog	IPMI 1.5 socket, Super●Doctor III, Watch Dog	IPMI 1.5 socket, Super●Doctor III. Watch Dog	IPMI 1.5 socket, Super●Doctor III, Watch Dog
	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header
	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication
	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, CPU thermal trip support for processor protection
	Phoenix 4 Mb Flash ROM	Phoenix 4 Mb Flash ROM	AMI 4 Mb Flash ROM	AMI 4 Mb Flash ROM	AMI 4 Mb Flash ROM	Phoenix 4 Mb Flash ROM

MODEL	X5DL8-GG	X5DLR-8G2/ X5DLR-8G2+	X5DE8-GG/ X5DEi-GG	X5DA8/E	X5DAL-TG2
Processor	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz	Dual Xeon up to 3.20GHz
Chipset/ System Bus	ServerWorks GC-LE 533/400MHz	ServerWorks GC-LE 533/400MHz	ServerWorks GC-SL 533/400MHz	Intel E7505/ 533/400MHz	Intel E7505/ 533/400MHz
Form Factor	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	Ext. ATX 12" x 13"	ATX 12" x 9.8"
Optimized Chassis	2U: SC822S-400LP 4U/Tower: SC742S-420 SC742S-600 3U: SC832S/550R760	X5DLR-8G2: 2U: SC822R-400RC X5DLR-8G2+: 1U: SC812S-400C SC813S-500C	X5DE8-GG: 2U: SC822S-400LP 4U/Tower: SC742S-420 1U:SC812S-400C,SC813S-500C X5DEi-GG: 1U: SC812i-400C/SC812L-350C 4U/Tower: SC742i-420	X5DAE: Tower/4U: SC742i-450 Mid-tower: SC733i-450 X5DA8: Tower/4U: SC742S-420, SC742S-600	Tower: SC733T-450 SC733i-450
Memory Capacity & Slots	16 GB ECC Reg. DDR266/200 SDRAM in 8 DIMMs	12 GB ECC Reg. DDR266/200 SDRAM in 6 DIMMs	4 GB ECC Reg. DDR266/200 SDRAM in 4 DIMMs	12 GB ECC Reg. DDR266/200 SDRAM in 6 DIMMs	8 GB buffered or unbuffered DDR266/200 SDRAM in 4 DIMMs
Expansion Slots	Total: 6 PCI-X slots Max. up to 3 PCI-X 133MHz Default setting: 6 PCI-X 100MHz	1 PCI-X (133MHz)	3 64-bit PCI 33MHz 2 32-bit PCI 33 MHz	1 8xAGP Pro 1.5V 1 64-bit PCI-X 133 MHz 2 64-bit PCI-X 100 MHz 2 32-bit PCI	1 8xAGP Pro 1 64-bit PCI-X 133 MHz 1 64-bit PCI 66 MHz 2 32-bit PCI
Onboard SCSI/ SATA/SATA RAID	Adaptec 7902 dual-channel Ultra320 SCSI	Adaptec 7902 dual-channel Ultra320 SCSI	Adaptec 7902 dual-channel Ultra320 SCSI (X5DE8-GG)	Adaptec 7902 dual-channel Ultra320 SCSI (X5DA8)	Two Sil 3112A for 4 SATA RAID 0, 1
Zero Channel RAID (ZCR) card support	AOC-LPZCR1 or AOC-2020S	AOC-SOZCR1 or AOC-2025S	AOC-LPZCR1 or AOC-2020S (X5DE8-GG)	AOC-LPZCR1 or AOC-2020S (X5DA8)	Zero channel SATA RAID support for ZCRINT
Onboard LAN	Intel 82540 Gigabit Ethernet Broadcom 5703 Gigabit Ethernet	Dual LAN with Broadcom 5704 Gigabit Ethernet (Integrated into CIOBE)	Two Intel 82540 Gigabit Ethernet	Intel 82545 Gigabit Ethernet	Dual LAN with Intel 82546 Gigabit Ethernet
Onboard VGA	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	N/A	N/A
Built-in EIDE/ USB ports	ATA100/Up to 4 USB ports	ATA100/Up to 4 USB ports	ATA100/Up to 4 USB ports	ATA100/ USB 2.0 w/Up to 6 USB ports	ATA100/ Up to 6 USB 2.0 ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial (1 port & 1 header) PS/2 mouse and keyboard conn. 1 ECP/EPP parallel port (X5DLR -8G2 only)	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.
Manageability	IPMI 1.5 socket, Super● Doctor III, Watch Dog	Super● Doctor III, Watch Dog	IPMI 1.5 socket (X5DE8-GG only), Super● Doctor III, Watch Dog	Super● Doctor III, Watch Dog	Super● Doctor III, Watch Dog
PC Health Monitoring	Monitors CPU voltages, +3.3V,+5V, +12V and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +5V,±12V, +3.3V, +1.5V, VBAT, +5V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V & +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header
Thermal Control	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication
Other Features	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, chipkill support, CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, chipkill support, CPU thermal trip support for processor protection	ACPI/APM power management, internal modem ring-on, WOL, control of power-on mode for recovery from AC power loss, CPU thermal trip support for processor protection, +5V standby alert LED	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, STR (Suspend-To-RAM), SDDC support, CPU thermal trip support for processor protection	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, STR (Suspend-To-RAM), SDDC support, CPU thermal trip support for processor protection
BIOS	AMI 4 Mb Flash ROM	AMI 4 Mb Flash ROM	AMI 4 Mb Flash ROM	Phoenix 4 Mb Flash ROM	Phoenix 4 Mb Flash ROM

	X5DAL-G	P8SC8	P8SCi	P8SCT	P8SGA	P8SAA
	Dual Xeon up to 3.20GHz	Pentium 4 LGA775 up to 3.80GHz/Celeron up to 3.06GHz	Pentium 4 LGA775 up to 3.80GHz/Celeron up to 3.06GHz	Pentium 4 LGA775 up to 3.80GHz/Celeron up to 3.06GHz	Pentium 4 LGA775 up to 3.80GHz/Celeron up to 3.06GHz	Pentium 4 LGA775 up to 3.80GHz/Celeron up to 3.06GHz
	Intel E7505/ 533/400MHz	Intel 7221 800/533MHz	Intel 7221 800/533MHz	Intel 7221 800/533MHz	Intel 915G 800/533MHz	Intel 925X 800/533MHz
	ATX 12" x 9.8"	ATX 12" X 9.5"	ATX 12" X 9.5"	ATX 12" X 9.5"	ATX 12" X 9.5"	ATX 12" X 9.5"
	Tower: SC733C-450 SC733i-450	1U: SC811S-260 SC813MS-300C	1U: SC813MT-300C SC513L-260 SC512C/L-260 Mid Tower: SC733T-350/450	1U: SC813MT-300C SC811T-260 SC513L-260 SC512C/L-260 Mid Tower: SC733T-350/450	Tower: SC733T-350/450	Tower: SC733T-645/450/350 SC733i-645
	8 GB buffered or unbuffered DDR266/200 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDRII533/400 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDRII533/400 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDRII533/400 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. non-ECC DDR400/333 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDRII533/400 SDRAM in 4 DIMMs
	1 8xAGP Pro 1 64-bit PCI-X 133 MHz 1 64-bit PCI 66 MHz 2 32-bit PCI	2 PCI-Express x1 1 64-bit PCI-X 133MHz 1 32-bit PCI 33MHz	2 PCI-Express x1 1 64-bit PCI-X 133MHz 1 32-bit PCI 33MHz	1 64-bit PCI-X 133MHz 5 32-bit PCI 33MHz	1 PCI-Express x16 3 PCI-Express x1 3 32-bit PCI 33MHz	1 PCI-Express x16 3 PCI-Express x1 3 32-bit PCI 33MHz
	N/A	Adaptec 7902 dual-channel U320 SCSI w/host RAID Intel ICH6R controller for 4 SATA RAID 0, 1	Intel ICH6R controller for 4 SATA RAID 0, 1	Intel ICH6R controller for 4 SATA RAID 0, 1, 10	Intel ICH6 controller for 4 SATA	Intel ICH6R controller for 4 SATA RAID 0, 1
	N/A	AOC-LPZCR1 or AOC-2020S	N/A	N/A	N/A	N/A
	Intel 82545 Gigabit Ethernet	Dual LAN w/Broadcom 5721 PCI-Express Gigabit Ethernet	Dual LAN w/Broadcom 5721 PCI-Express Gigabit Ethernet	Dual LAN w/Broadcom 5721 PCI-Express Gigabit Ethernet	Intel 82541GI Gigabit Ethernet	Intel 82541GI Gigabit Ethernet
	N/A	Integrated server quality graphics in MCH	Integrated server quality graphics in MCH	Integrated server quality graphics in MCH	Intel 3rd generation integrated gfx	N/A
	ATA100/ Up to 6 USB 2.0 ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 6 USB ports	ATA100/USB 2.0 w/up to 8 USB ports	ATA100/USB 2.0 w/up to 8 USB ports
	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared header PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared header PS/2 mouse and keyboard conn. AC'97 audio CODEC w/high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared header PS/2 mouse and keyboard conn. AC'97 audio CODEC w/high quality 6-channel sound
	Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	IPMI 2.0 socket, Watch Dog, Super●Doctor III	Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog
	Monitors CPU voltages, +1.8V, +3.3V, +5V, +12V and +3.3V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of five 3-pin fan headers with 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of five 3-pin fan headers with 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of five 3-pin fan headers with 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +3.3V standby, VBAT, +5V standby and total of three 4-pin fan headers with 3-fan status, supports system management utility, chassis intrusion	Monitors CPU voltages, +3.3V, +5V, +12V & +3.3V standby, VBAT, +5V standby and total of three 4-pin fan headers with 3-fan status, supports system management utility, chassis intrusion
	CPU thermal monitoring & throttling, overheat LED indication	3-pin fan speed control & overheat LED indication	3-pin fan speed control & overheat LED indication	3-pin fan speed control & overheat LED indication	4-pin PWM speed control & overheat LED indication	4-pin PWM speed control & overheat LED indication
	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, STR (Suspend-To-RAM), SDDC support, CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	Intel performance acceleration technology, ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	Intel performance acceleration technology, ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection
	Phoenix 4 Mb Flash ROM	Award 8 Mb Flash ROM	Award 8 Mb Flash ROM	Award 8 Mb Flash ROM	Award 4 Mb Flash ROM	Award 4 Mb Flash ROM

MODEL	P4SPE	P4SPA+	P4SCT+II	P4SCT	P4SCT+
Processor	Pentium 4 up to 3.4GHz/ Celeron up to 2.6 GHz	Pentium 4 up to 3.4GHz/ Celeron up to 2.6 GHz	Pentium 4 up to 3.4GHz/ Celeron up to 2.8 GHz	Pentium 4 up to 3.4GHz/ Celeron up to 2.8 GHz	Pentium 4 up to 3.4GHz/ Celeron up to 2.8 GHz
Chipset/ System Bus	Intel 865PE 800/533/400MHz	Intel 865G 800/533/400MHz	Intel 875P 800/533/400MHz	Intel 875P 800/533/400MHz	Intel E7210 800/533/400MHz
Form Factor	ATX 12" X 8.8"	ATX 12" X 8.8"	ATX 12" X 9.5"	ATX 12" X 9.5"	ATX 12" X 9.5"
Optimized Chassis	4U/Tower: SC733i-300 SC742i-300	4U/Tower: SC733i-300 SC742i-300	1U: SC813MT-300C, SC811T-260 2U: SC822T-550LP Tower: SC733T-350/450	4U/Tower: SC742i-450 SC742i-300 Mid-tower: SC733i-300	1U: SC813MT-300C SC811T-260 2U: SC822T-550LP Tower: SC733T-350/450
Memory Capacity & Slots	Dual channel DDR 4 GB, Unb. non-ECC DDR400/333/266 SDRAM in 4 DIMMs	Dual channel DDR 4 GB, Unb. non-ECC DDR400/333/266 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDR400/333/ 266 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDR400/333/ 266 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDR400/333/ 266 SDRAM in 4 DIMMs
Expansion Slots	1 8xAGP 1.5V 5 32-bit PCI 33MHz	1 8xAGP 1.5V 5 32-bit PCI 33MHz	1 AGP Pro 8x 3 64-bit PCI-X 66MHz 2 32-bit PCI 33MHz	1 AGP Pro 8x 3 64-bit PCI-X 66MHz 2 32-bit PCI 33MHz	3 64-bit PCI-X 66MHz 2 32-bit PCI 33MHz
Onboard SCSI/ SATA/SATA RAID	Intel ICH5 for 2 SATA	Intel ICH5 for 2 SATA	Adaptec AIC-8110 for 4 SATA Intel 6300ESB for 2 SATA RAID 0, 1	Intel 6300ESB for 2 SATA RAID 0, 1	Adaptec AIC-8110 for 4 SATA Intel 6300ESB for 2 SATA RAID 0, 1
Zero Channel RAID (ZCR) card support	N/A	N/A	AOC-2020SAH1	N/A	AOC-2020SAH1
Onboard LAN	Intel 82562EZ 10/100 fast Ethernet	Intel 82547 Gigabit Ethernet	Intel 82547GI CSA Gigabit Ethernet Intel 82541 Gigabit Ethernet	Intel 82547GI CSA Gigabit Ethernet	Intel 82547GI CSA Gigabit Ethernet Intel 82541 Gigabit Ethernet
Onboard VGA	N/A	Intel EXTREME graphics 2 on-chip	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller
Built-in EIDE/ USB ports	ATA100/USB 2.0 w/up to 8 USB ports	ATA100/USB 2.0 w/up to 8 USB ports	ATA100/USB 2.0 w/up to 4 USB ports	ATA100/USB 2.0 w/up to 4 USB ports	ATA100/USB 2.0 w/up to 4 USB ports
Other Onboard I/O Devices	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC w/high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 audio CODEC w/high quality 6-channel sound	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared port PS/2 mouse and keyboard conn.
Manageability	Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog
PC Health Monitoring	Monitors CPU voltages, +5V, +12V, +3.3V standby, +3.3V, VBAT, +5V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +5V, +12V, +3.3V standby, +3.3V, VBAT, +5V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +3.3V standby, VBAT, +5V standby and total of five 3-pin fan headers with 3-fan status, supports system management utility, chassis intrusion	Monitors CPU voltages, +3.3V, +5V, +12V & +3.3V standby, VBAT, +5V standby and total of five 3-pin fan headers with 3-fan status, supports system management utility, chassis intrusion	Monitors CPU voltages, +3.3V, +5V, +12V & +3.3V standby, VBAT, +5V standby and total of five 3-pin fan headers with 3-fan status, supports system management utility, chassis intrusion
Thermal Control	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication
Other Features	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	Intel performance acceleration technology, ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	Intel performance acceleration technology, ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	Intel performance acceleration technology, ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection
BIOS	Award 4 Mb Flash ROM	Award 4 Mb Flash ROM	Award 8 Mb Flash ROM	Award 8 Mb Flash ROM	Award 8 Mb Flash ROM

P4SC8/P4SCi	P4SCA	P4SCE	P4SGR/P4SGE	P4QH8	P4DC6+II/P4DCE+II
Pentium 4 up to 3.4GHz/ Celeron up to 2.8GHz	Pentium 4 up to 3.4GHz/ Celeron up to 2.8 GHz	Pentium 4 up to 3.4GHz/ Celeron up to 2.8 GHz	Pentium 4 up to 3.06GHz Celeron up to 2.2GHz	**QUAD** Intel Xeon MP up to 3.0 GHz	Dual Xeon up to 3.0GHz
Intel E7210 (Canterwood ES) 800/533/400MHz	Intel E7210 (Canterwood ES) 800/533/400MHz	Intel E7210 (Canterwood ES) 800/533/400MHz	Intel 845GE 533/400MHz	ServerWorks GC- HE /400MHz	Intel 860/400MHz
ATX 12" X 9.5"	ATX 12" X 9.5"	ATX 12" X 9.5"	ATX 12" x 9.5"	SWTX 16"x 13"	Ext. ATX 12" x 13"
P4SC8: 1U: SC813MS-300C 2U: SC822S-400LP 4U/Tower: SC742S-420 P4SCi 1U: SC811i-250/260 2U: SC822i-300LP 4U/Tower: SC742i-300	1U: SC811T-260 SC811i-260 4U/Tower: SC742i-300 SC733i-300	1U: SC811T-260 SC811i-260 4U/Tower: SC742i-300 SC733i-300	P4SGR: 1U: SC811-SCA 2U: SC822S-400LP P4SGE: 1U: SC512C	4U/Tower: SC862 SC850P4	P4DC6+II: 2U: SC822S-400LP 4U/Tower: SC742S-420 P4DCE+II: 4U/Tower: SC742i-450 SC742i-420
Dual-channel DDR 4 GB Unb. ECC, non-ECC DDR400/333/ 266 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDR400/333/ 266 SDRAM in 4 DIMMs	Dual-channel DDR 4 GB Unb. ECC, non-ECC DDR400/333/ 266 SDRAM in 4 DIMMs	2 GB unbuffered DDR333/266/200 SDRAM in 2 DIMMs	32 GB ECC Reg. DDR200 SDRAM in 16 DIMMs MEC (Memory Expansion Card)	2 GB RAMBUS in 4 RIMMs
2 64-bit PCI-X 66MHz 2 32-bit PCI 33MHz	4 32-bit PCI 33MHz 3 ISA	5 32-bit PCI 33MHz	5 PCI 33MHz 1 4xAGP 1.5V	6 PCI-X 100MHz	2 64-bit PCI 4 32-bit PCI 1 4xAGP Pro 1.5V
Adaptec 7902W 2-CH Ultra320 SCSI (P4SC8 only) Intel 6300ESB SATA for 2 SATA RAID 0, 1	Intel ICH5R for 2 SATA RAID 0, 1	Intel ICH5R for 2 SATA RAID 0, 1	Adaptec 7899W dual-channel Ultra160 SCSI (P4SGR only)	Adaptec 7902 dual-channel Ultra320 SCSI	Adaptec 7899W dual-channel Ultra160 SCSI Adaptec SCSI RAID 2005S (P4DC6+II only)
AOC-LPZCR1 or AOC-2010S (P4SC8)	N/A	N/A	N/A	AOC-LPZCR1 or AOC-2010S	N/A
Intel 82547GI CSA Gigabit Ethernet Intel 82541 Gigabit Ethernet	Intel 82541 Gigabit Ethernet	Dual LAN w/Intel 82541 Gigabit Ethernet	Dual Intel 82540 Gigabit Ethernet	Intel 82550 10/100 fast Ethernet	Intel 82559 10/100 fast Ethernet
ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	ATI Rage XL 8MB PCI graphics controller	Intel extreme graphics accelerator on-chip	ATI Rage XL 8MB PCI graphics controller	N/A
ATA100/USB 2.0 w/up to 4 USB ports	ATA100/USB 2.0 w/up to 8 USB ports	ATA100/USB 2.0 w/up to 8 USB ports	ATA100/ USB up to 6 USB ports	ATA100/Up to 3 USB ports	ATA100/Up to 4 USB ports
1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port 1 infrared port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn.	1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. AC'97 Audio CODEC
Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog	IPMI 1.5 socket, Super●Doctor III, Watch Dog	Super●Doctor III, Watch Dog
Monitors CPU voltages, +3.3V, +5V, +12V & +3.3V standby, VBAT, +5V standby and total of five 3-pin fan headers with 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +5V, +12V, +3.3V standby, +3.3V, VBAT, +5V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +5V, +12V, +3.3V standby, +3.3V, VBAT, +5V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +5V, +12V, +3.3Vstandby, +3.3V, +1.5V, VBAT, +5V standby and 3-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltagess, +3.3V, +5V, +12V and 4-fan status, supports system management utility, chassis intrusion header	Monitors CPU voltages, +5V, +12V, and 2-fan status, supports system management utility, chassis intrusion header
CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication	CPU thermal monitoring & throttling, overheat LED indication
Intel performance acceleration technology, ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	Intel performance acceleration technology, ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	Intel performance acceleration technology, ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, Wake-On-Ring. LAN, USB, keyboard & mouse, DMI 2.3, STR, CPU thermal trip support for processor protection	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, STR (Suspend-To-RAM), CPU thermal trip support for processor protection, +5V standby alert LED	ACPI/APM power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, chipkill support, CPU thermal trip support for processor protection	ACPI/APM power management, RTC wake-up, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, STR (Suspend-To-RAM)
Award 8 Mb Flash ROM	Award 4 Mb Flash ROM	Award 4 Mb Flash ROM	Award 4 Mb Flash ROM	AMI 4 Mb Flash ROM	Award 4 Mb Flash ROM

SC815 *1U High-Performance Chassis - Dual Processors*

SC815S/SC815TQ
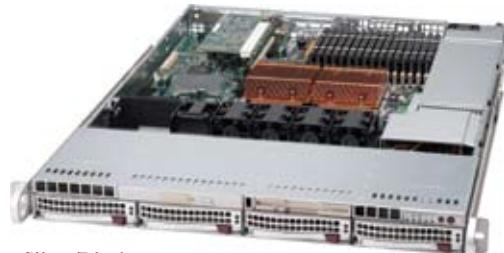
Silver/Black

Optional LCD Front Bezel (OEM)

Mechanical Drawing

D: 25.6"

W: 17.2"
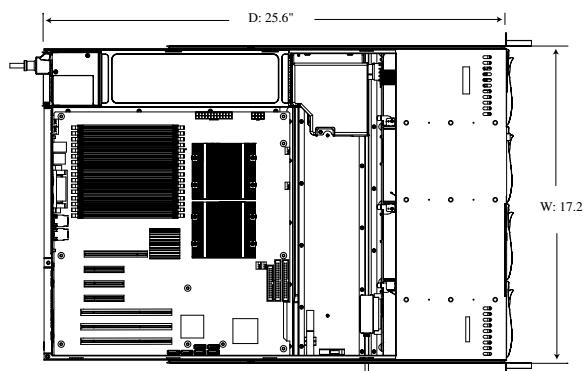
Features

✔ 700W/650W/560W power supply with high efficiency power (85% and up) ✔ 4 hot-swap drive support ✔ High performance fans

Specifications

Form Factor	1U chassis support for max. motherboard size - 13.68" x 13"
CPU support	Dual Xeon
Expansion	1 full-height & full-length expansion slot & 1 low-profile expansion slot (SC815S-700V/R650V/560V, SC815TQ-700V/R560V/560V only)
Peripheral Drives	1 slim DVD-ROM drive & optional slim FDD
Drive Bays	SC815S-700/SC815S-R650/SC815S-560: 4 x 3.5" hot-swap SCA drive bays with SAF-TE compliance
	SC815TQ-700/SC815TQ-R650/SC815TQ-560: 4 x 3.5" hot-swap SAS/SATA drive bays with SES2
Power Supply	SC815S/SC815TQ-700: 700W high-efficiency cold-swap power supply w/I^{2}C & fan speed control
	SC815S/SC815TQ-R650: 650W redundant high-efficiency cold-swap power supply w/I^{2}C & fan speed control
	SC815S/SC815TQ-560: 560W high-efficiency & fan speed control
Cooling System	4 x 4cm heavy duty counter-rotating fans with optimal fan speed control
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2"(437mm) x 1.7"(43mm) x 25.6" (650mm) Packing: 33.7" x 23.5" x 8.5"
Rail	Extendable lengths 26" to 33.5"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◔ Certain configuration

Model	MB (Max. 13.68" x 13")			PCI I/O	Drives	DVD-ROM	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5								
SC815S-700	●	●	◔	1 FF & 1 LP	4 SCA w/SAF-TE	slim	4 x 14000rpm fans	700W high-efficiency	4	57	38 lbs
SC815S-700C	●	◖	◔	1 FF	4 SCA w/SAF-TE	slim	4 x 14000rpm fans	700W high-efficiency	4	57	38 lbs
SC815TQ-700	●	●	◔	1 FF & 1 LP	4 SAS/SATA w/SES2	slim	4 x 14000rpm fans	700W high-efficiency	4	57	38 lbs
SC815TQ-700C	●	◖	◖	1 FF	4 SAS/SATA w/SES2	slim	4 x 14000rpm fans	700W high-efficiency	4	57	38 lbs
SC815S-R650	●	●	◖	1 FF & 1 LP	4 SCA w/SAF-TE	slim	4 x 14000rpm fans	650W redundant high-efficiency	3	54	40 lbs
SC815TQ-R650	●	●	◖	1 FF & 1 LP	4 SAS/SATA w/SES2	slim	4 x 14000rpm fans	650W redundant high-efficiency	3	54	40 lbs
SC815S-560	●	●	◔	1 FF & 1 LP	4 SCA w/SAF-TE	slim	4 x 14000rpm fans	560W high-efficiency	3	43	38 lbs
SC815S-560C	●	◖	◖	1 FF	4 SCA w/SAF-TE	slim	4 x 14000rpm fans	560W high-efficiency	3	43	38 lbs
SC815TQ-560	●	●	◔	1 FF & 1 LP	4 SAS/SATA w/SES2	slim	4 x 14000rpm fans	560W high-efficiency	3	43	38 lbs
SC815TQ-560C	●	◖	◔	1 FF	4 SAS/SATA w/SES2	slim	4 x 14000rpm fans	560W high-efficiency	3	43	38 lbs

FF: Full-height & full-length expansion slot
LP: Low-profile expansion slot

SC818 *1U High-end chassis - Quad Processors*

SC818S/SC818TQ View

Beige/Balck
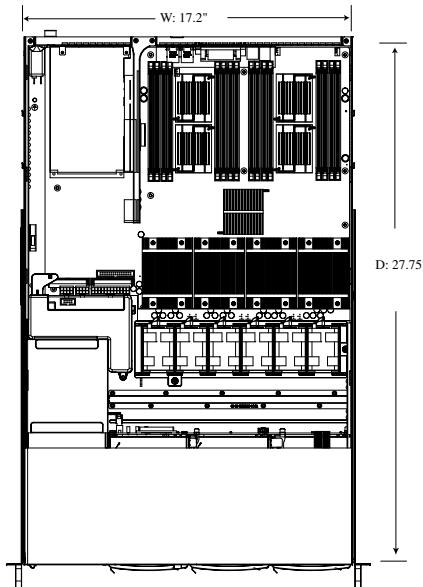
Front view

Rear view

Mechanical Drawing

W: 17.2"

D: 27.75"

Features

✔ 1000W power supply with high efficiency power (85% and up)   ✔ 3 hot-swap drive support   ✔ High performance fans

Specifications

Form Factor	1U chassis support for max. motherboard size - 14.3" x 17"
CPU support	Quad Xeon MP
Expansion	1 full-height & full-length expansion slot (with Riser Card)
Peripheral Drives	Slim DVD-ROM drive & optional slim FDD drive
Drive Bays	SC818S-1000: 3 x 3.5" hot-swap SCA drive bays with SAF-TE compliant
	SC818TQ-1000: 3 x 3.5" hot-swap SAS/SATA drive bays with SES2
Power Supply	SC818S/TQ-1000: Front-loading 1000W high-efficiency cold-swap power supply w/I^{2}C
Cooling System	6 x 4cm heavy duty counter-rotating fans with optimal fan speed control
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2"(437mm) x 1.7"(43mm) x 27.75" (705mm) Packing: 37.7" x 9" x 26.6"
Rail	Extendable lengths 26" to 33.5"
Temperature	Operating 10 - 35 ^{o}C (50°to 95 ^{o}F) non-operating -40 - +70 ^{o}C (-40 ^{o}to 158 ^{o}F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible

Model	MB (Max. 14.3" x 17")	PCI I/O	Drives	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
SC818S-1000 (OEM)	X6QT8	1 FF	3 SCA w/SAF-TE	6 x 14000rpm fans	1000W high-efficiency	4	83	38 lbs
SC818TQ-1000 (OEM)	X6QTE	1 FF	3 SAS/SATA w/SES2	6 x 14000rpm fans	1000W high-efficiency	4	83	38 lbs

Optional Kit	Model Part #	Description
Front Bezel	CSE-PTFB-813(B)	Front cover bezel with key lock and filter (beige or black color)
Front Tray	CSE-PT40(B)	Front USB and COM tray (occupies slim floppy drive location)
Riser Card(s)	CSE-RR1U-E16	1U PCI-E toPCI-E Riser Card (x16)

SC813S/SC813T/SC813TQ

Mechanical Drawing

(Beige/Black)

Optional LCD Front Bezel view (OEM)

D: 25.6"

W: 17.2"
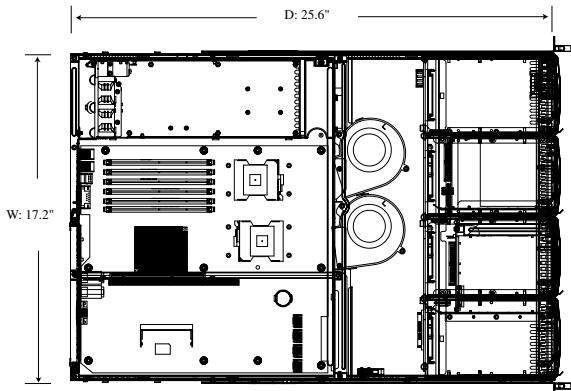
Features

4 hot-swap drive support, 520W high-efficiency/500W cold-swap power supply & butterfly design for 2 expansion slots

Specifications

Form Factor	1U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon
Expansion	1 full-height & full-length expansion slot & 1 low-profile expansion slot (SC813S-500, SC813T/TQ*-500 & SC813TQ-520 only)
Peripheral Drives	1 slim FDD & 1 slim CD-ROM drive
Drive Bays	SC813S-500C/SC813S-500: 4 x 3.5" hot-swap SCA drive bays with SAF-TE compliance
	SC813TQ*-520/500 & SC813T-500C/500: 4 x 3.5" hot-swap SAS/SATA drive bays with SES2
Power Supply	SC813S-500/500C, SC813T/SC813TQ-500, SC813T-500C: 500W cold-swap with I^{2}C built-in
	SC813S-520 & SC813TQ-520: 520W high-efficiency power supply
Cooling System	2 x 10cm blowers
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2"(437mm) x 1.7"(43mm) x 25.6" (650mm) Packing: 23.4" x 8.5" x 33.7"
Rail	Extendable lengths 26" to 33.5"
Temperature	Operating 10 - 35 ^{o}C (50°to 95°F) non-operating -40 - +70 ^{o}C (-40 ^{o}to 158 ^{o}F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◗ Certain configuration   ● <45W CPU optimized   ◖ <45W CPU compatible

Model	MB (Max. 12" x 13")			PCI I/O	Drives	CD/FDD	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5								
SC813S-520	◖	●	◗	1 FF & 1 LP	4 SCA w/SAF-TE	slim/slim	2 x 5000rpm blowers	520W high-efficiency	3	39	36 lbs
SC813S-500	◖	●	◗	1 FF & 1 LP	4 SCA w/SAF-TE	slim/slim	2 x 5000rpm blowers	500W cold-swap	2	39	36 lbs
SC813S-500C	◖	●	◗	1 FF	4 SCA w/SAF-TE	slim/slim	2 x 5000rpm blowers	500W cold-swap	2	39	36 lbs
SC813TQ*-520	◖	●	◗	1 FF & 1 LP	4 SAS/SATA w/SES2	slim/slim	2 x 5000rpm blowers	520W high-efficiency	3	39	36 lbs
SC813T/TQ*-500	◖	●	◗	1 FF & 1 LP	4 SAS/SATA w/SES2	slim/slim	2 x 5000rpm blowers	500W cold-swap	2	39	36 lbs
SC813T-500C	◖	●	◗	1 FF	4 SAS/SATA	slim/slim	2 x 5000rpm blowers	500W cold-swap	2	39	36 lbs

* Only SC813TQ-500/520 chassis with SES2 support

Optional Kit	Model Part #	Description
LCD Front Bezel	MCP-210-00007-02/01	LCD Front bezel with 6 function buttons & key lock for security (beige/black color)
Front Bezel	CSE-PTFB-813(B)	Front cover bezel with key lock and filter (beige or black color)
Front Tray	CSE-PT40(B)	Front USB and COM tray (occupies slim floppy drive location)
Riser Card(s)	CSE-RR1U-XLP	1U 1-Slot 64-bit 3.3V PCI-X (for Low-Profile Riser Slot)
	CSE-RR1U-X	1U 64-bit 3.3V PCI-X Riser Card (Full-height)

SC813MS/SC813MT/SC813MFT   **Mechanical Drawing**

Beige/Black
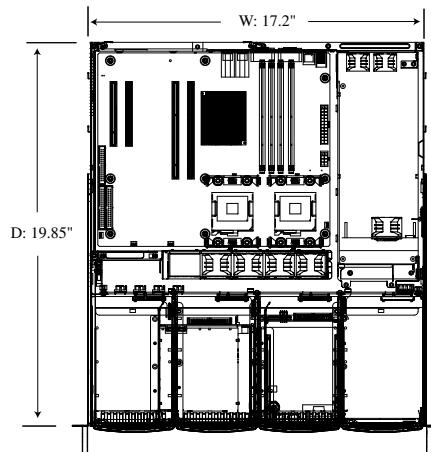
Optional LCD Front Bazel (OEM)

Rear view

W: 17.2"

D: 19.85"

Features

4 hot-swap drives support, high performance fans & compact size

Specifications

Form Factor	1U chassis support for max. motherboard size - 12" x 10" ATX
CPU support	Dual Xeon (SC813MS/SC813MT-420C/410C & SC813MTS/SC813MTQ-520C), Pentium 4 (SC813MS/MT-300C), Pentium D (SC813MFT-300C)
Expansion	1 full-height & half-length expansion slot
Peripheral Drives	1 slim CD-ROM drive optional
Front I/O port	2 front side USB ports & 1 COM port
Drive Bays	SC813MS-420C/410C/300C & SC813MTS-520: 4 x 3.5" hot-swap SCA drive bays with SAF-TE compliant
	SC813MT-420C & SC813MT-410C/300C & SC813MTQ-520: 4 x 3.5" hot-swap SAS/SATA drive bays
Cooling System	SC813MS-420C/410C & SC813MT-420C & SC813MT-410C & SC813MTQ/SC813MTS-520C: 4 x 4cm high performance fans
	SC813MS/SC813MT-300C: 3 x 4cm high performance fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2"(437mm) x 1.7"(43mm) x 19.85" (503mm) Packing: 23.4" x 8.5" x 29.7"
Rail	Extendable lengths 26" to 33.5"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◖ Certain configuration   ● <45W CPU optimized   ◖ <45W CPU compatible

Model	MB (Max. 12" x 10")						PCI I/O	Drive	Cooling System	Power	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5	PD	P8	P4							
SC813MS-520C	●	●	◖				1 FF	4 SCA w/SAF-TE	4 x 12500rpm fans	520W high-efficiency	3	39	31 lbs
SC813MTQ-520C	●	●	◖				1 FF	4 SAS/SATA	4 x 12500rpm fans	520W hign-efficiency	3	39	31 lbs
SC813MS-420C		●	◖				1 FF	4 SCA w/SAF-TE	4 x 12500rpm fans	420W	2	32	31 lbs
SC813MS-410C		●	◖				1 FF	4 SCA w/SAF-TE	4 x 12500rpm fans	410W DC (24-pin)	2	32	31 lbs
SC813MT-420C		●	◖				1 FF	4 SAS/SATA	4 x 12500rpm fans	420W	2	32	31 lbs
SC813MT-410C		●	◖				1 FF	4 SAS/SATA	4 x 12500rpm fans	410W DC (24-pin)	2	32	31 lbs
SC813MS-300C		●			●	●	1 FF	4 SCA w/SAF-TE	3 x 12500rpm fans	300W	2	20	31 lbs
SC813MT-300C		●			●	●	1 FF	4 SAS/SATA	3 x 12500rpm fans	300W	2	20	31 lbs
SC813MFT-300C (OEM)			●	●	●		1 FF	4 SAS/SATA	3 x 10000rpm fans	300W	2	20	31 lbs

Optional Kit	Model Part #	Description
LCD Front Bezel	MCP-210-00007-02/01	LCD Front bezel with 6 function buttons & key lock for security (beige/black color)
Front Bezel	CSE-PTFB-813(B)	Front cover bezel with key lock and filter (beige or black color)
Riser Card(s)	CSE-RR1U-X	1U 64-bit 3.3V PCI-X Riser Card

SC812S
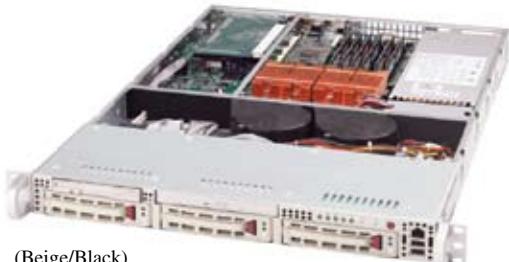
(Beige/Black)

Rear view (SC812i-420/SC812S-400/SC812i-400)

Rear view (SC812i-420C/SC812S-400C/SC812i-400C)

Mechanical Drawing

W: 16.8"

D: 25.6"
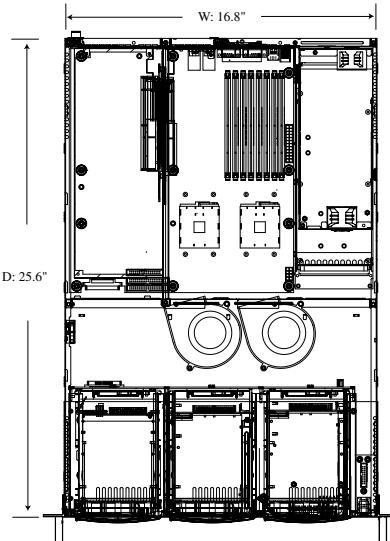
Features

3 hot-swap drive support, butterfly design for 2 expansion slots & dual heavy duty blowers

Specifications

Form Factor	1U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon
Expansion	1 full-height & full-length expansion slot & 1 low-profile expansion slot (SC812S-420/410/400 & SC812i-420/400 only)
Drive Bays	3 x 3.5" hot-swap drive bays
Cooling System	2 x 10cm blowers
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimension	W x H x D: 16.8" (426mm) x 1.7" (43mm) x 25.6" (650mm) Packing: 22" x 8.1" x 31.7"
Rail	Extendable lengths 29" to 35.25"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◖ Certain configuration   ● <45W CPU optimized   ◖ <45W CPU compatible

Model	MB (Max. 12" x 13")		PCI I/O	Drive	CD-ROM/FDD	Cooling System	Power	+5V$_{SB}$	+12V	Gross Weight
	X6	X5								
SC812S-420C	●	◖	1 FF	3 SCA	Optional	2 x 5000rpm blowers	420W	2	32	34 lbs
SC812S-420	●	◖	1 FF & 1 LP	3 SCA	Optional	2 x 5000rpm blowers	420W	2	32	34 lbs
SC812i-420C	●	◖	1 FF	3 fixed	Optional	2 x 5000rpm blowers	420W	2	32	34 lbs
SC812i-420	●	◖	1 FF & 1 LP	3 fixed	Optional	2 x 5000rpm blowers	420W	2	32	34 lbs
SC812S-410	●	◖	1 FF & 1 LP	3 SCA	Optional	2 x 5000rpm blowers	410W DC (24-pin)	2	32	34 lbs

Optional Kit	Model Part #	Description
Front Bezel	CSE-PTFB-812(B)	Front cover bezel with key lock and filter (beige or black color)
Front Tray	CSE-PT40(B)	Front USB and COM port tray (occupies slim floppy drive location)
Riser Card(s)	CSE-RR1U-XLP	1U 1-Slot 64-bit 3.3V PCI-X (for Low-Profile Riser Slot)
	CSE-RR1U-X	1U 64-bit 3.3V PCI-X Riser Card (Full-height)

SC812L *1U High-Performance Chassis - Dual Processors*

SC812L

Mechanical Drawing
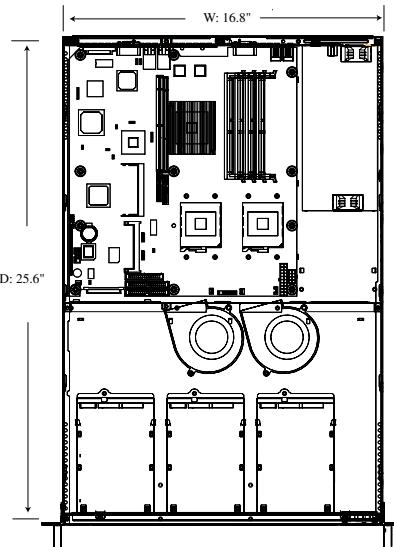
(Beige/Black)

Rear view (SC812L-420/SC812L-350)

Rear view (SC812L-420C/SC812L-350C)

W: 16.8"

D: 25.6"

Features

Server chassis design optimized for clustering, butterfly expansion slot design for 2 cards

Specifications

Form Factor	1U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon
Expansion	1 full-height & full-length expansion slot & 1 low-profile expansion slot (SC812L-420/410/350 only)
Cooling Systems	2 x 10cm blowers
Drive Bays	3 fixed drive bays
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 16.8"(426mm) x 1.7"(43mm) x 25.6" (650mm) Packing: 22" x 8.1" x 31.7"
Rail	Extendable lenghts 29" to 35.25"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◐ Compatible   ◑ Certain configuration   ● <45W CPU optimized   ◑ <45W CPU compatible

Model	MB (Max. 12" x 13")			PCI I/O	Drive	Cooling System	Power	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5							
SC812L-420		●	◑	1 FF & 1 LP	3 fixed	2 x 5000rpm blowers	420W (20-pin)	2	32	34 lbs
SC812L-410		●	◑	1 FF & 1 LP	3 fixed	2 x 5000rpm blowers	410W DC (20-pin)	2	32	34 lbs
SC812L-420C		●	◑	1 FF	3 fixed	2 x 5000rpm blowers	420W (24-pin)	2	32	34 lbs
SC812L-350			●	1 FF & 1 LP	3 fixed	2 x 4200rpm blowers	350W (20-pin)	2	25	33 lbs
SC812L-350C			●	1 FF	3 fixed	2 x 4200rpm blowers	350W (24-pin)	2	25	33 lbs
SC812L-520	●	●	◑	1 FF & 1 LP	3 fixed	2 x 5000rpm blowers	520W high-efficiency (20-pin)	3	39	34 lbs
SC812L-520C	●	●	◑	1 FF	3 fixed	2 x 5000rpm blowers	520W high-efficiency (24-pin)	3	39	34 lbs

Optional Kit	Model Part #	Description
Riser Card(s)	CSE-RR1U-E16	1U PCI-E to PCI-E Riser Card (x16)
	CSE-RR1U-EL	1U Universal to PCI-E (x8) Full-height
	CSE-RR1U-ELP	1U Universal (SXB-E) Slot to PCI-E (x8) Slot (Low-profile)
	CSE-RR1U-X	1U 64-bit 3.3V PCI-X Riser Card (Full-height)
	CSE-RR1U-XLP	1U 1-Slot 64-bit 3.3V PCI-X (for Low-Profile Riser Slot)

SC811 *1U The Best Cost/Performance Ratio*

Mechanical Drawing

SC811S/SC811TQ-520 as shown (Beige/Black)

D: 22.6"
W: 16.8"
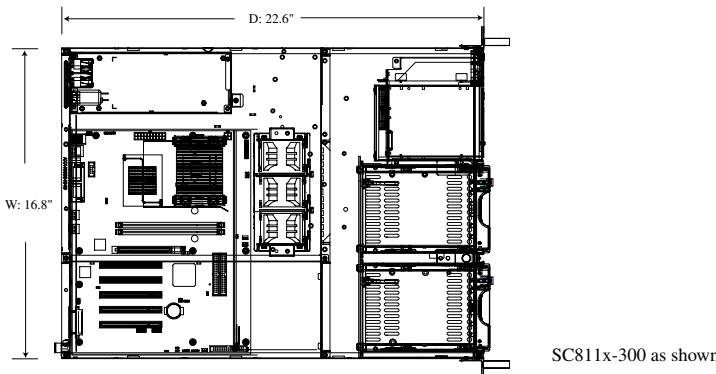
SC811x-300 as shown

Features

An efficient 1U rackmount design optimized for the best cost/performance ratio, dual heavy-duty blowers for superior cooling

Specifications

Form Factor	1U chassis support for max. motherboard size - 12" x 10" ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	1 full-height full-length expansion slot
Peripheral Drives	1 Floppy drive (SC811S/SC811TQ/SC811i-520 & 280 no floppy option) & option CD-ROM drive
Drive Bays	SC811S/SC811TQ/SC811T: 2 x 3.5" hot-swap drive bays; SC811i: 2 x 3.5" fixed drive bays
Cooling System	SC811S/SC811TQ/SC811T/SC811i: 2 x 10cm blowers ; SC811T/SC811i-300: 3 x 4cm counter-rotating fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 16.8"(426mm) x 1.7"(43mm) x 22.6" (574mm) Packing: 24.4" x 7.7" x 27.4"
Rail	Extendable lengths 25" to 33.25"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible   ◐ Certain configuration   ● <45W CPU optimized   ◑ <45W CPU compatible

Model	Motherboard (Max. 12" x 10")						PCI I/O	Drive	Cooling System	Power	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5	PD	P8	P4							
SC811S-520	●	●	◑				1 FF	2 SCA	2 x 5000rpm blowers	520W high-efficiency	3	39	28 lbs
SC811S-420		●	◑				1 FF	2 SCA	2 x 5000rpm blowers	420W	2	32	28 lbs
SC811S-410		●	◑				1 FF	2 SCA	2 x 5000rpm blowers	410W DC (24-pin)	2	32	28 lbs
SC811S-350			●				1 FF	2 SCA	2 x 3800rpm blowers	350W	2	25	28 lbs
SC811S-300				●	●	◑	1 FF	2 SCA	3 x 14000rpm fans	300W	2	20	28 lbs
SC811S-280	●						1 FF	2 SCA	2 x 5000rpm blowers	280W high-efficiency	2	23	28 lbs
SC811S-260					●	●	1 FF	2 SCA	2 x 4200rpm blowers	260W	2	18	27 lbs
SC811TQ-520	●	●	◑				1 FF	2 SAS/SATA w/SES2	2 x 5000rpm blowers	520W high-efficiency	3	39	28 lbs
SC811T-420		●	◑				1 FF	2 SAS/SATA	2 x 5000rpm blowers	420W	2	32	28 lbs
SC811T-410		●	◑				1 FF	2 SAS/SATA	2 x 5000rpm blowers	410W DC (24-pin)	2	32	28 lbs
SC811T-300				●	●	◑	1 FF	2 SAS/SATA	3 x 14000rpm fans	300W	2	20	28 lbs
SC811TQ-280	●						1 FF	2 SAS/SATA	2 x 5000rpm blowers	280W high-efficiency	2	23	28 lbs
SC811T-260					●	●	1 FF	2 SAS/SATA	2 x 4200rpm blowers	260W	2	18	27 lbs
SC811i-520	●	●	◑				1 FF	2 fixed	2 x 5000rpm blowers	520W high-efficiency	3	39	28 lbs
SC811i-420		●	◑				1 FF	2 fixed	2 x 5000rpm blowers	420W	2	32	28 lbs
SC811i-410		●	◑				1 FF	2 fixed	2 x 5000rpm blowers	410W DC (24-pin)	2	32	28 lbs
SC811i-350			●				1 FF	2 fixed	2 x 3800rpm blowers	350W	2	25	28 lbs
SC811i-300				●	●	◑	1 FF	2 fixed	3 x 14000rpm fans	300W	2	20	28 lbs
SC811i-280	●						1 FF	2 fixed	2 x 5000rpm blowers	280W high-efficiency	2	23	28 lbs
SC811i-260					●	●	1 FF	2 fixed	2 x 4200rpm blowers	260W	2	18	27 lbs
SC811LT-260 (OEM)		●					1 FF	2 SAS/SATA	2 x 12500rpm fans	260W	2	18	27 lbs

SC513L *14" 1U Optimized Space Efficiency*

Front I/O Access

- Power switch, reset & 5 LED indications
- Keyboard
- Mouse
- USB 2.0
- Serial
- Printer
- VGA
- Gb LAN
- Beige/Black
- PCI expansion slot
- Optional I/O Panel
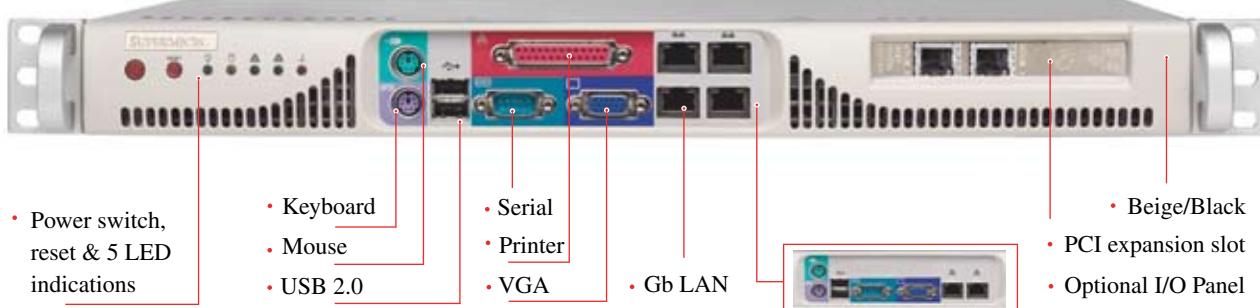
Optimized Air-Flow (front to back)

SC513L-420/410

W: 16.8"
D: 14"

SC513L-260

W: 16.8"
D: 14"
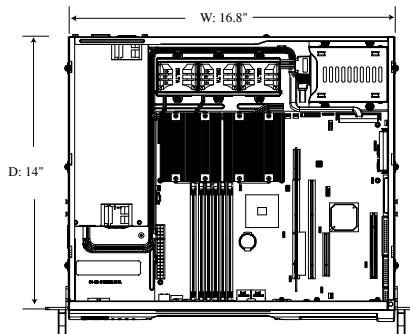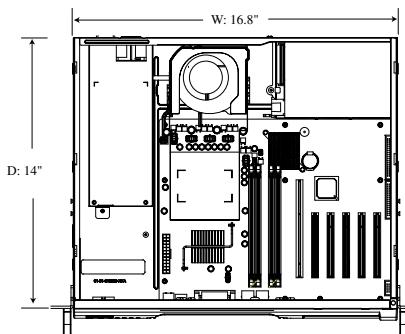
Features

14" depth small form factor 1U server, dual Xeon support, front I/O access, full-height expansion

Specifications

Form Factor	14" Mini 1U chassis support for maximum motherboard size: 12" x 10" ATX (SC513L-420/410) / 12" x 9.5" (SC513L-260)
CPU support	Dual Xeon (SC513L-420/SC513L-410), Pentium D (SC513F-260), Pentium 4 (SC513L-260/SC513F-260)
Expansion	1 full-height half-length expansion slot (with Riser Card)
Drive Bay	SC513L-420/410: 2 x 2.5" fixed ; SC513L-260/SC513F-260: 2 x 2.5" option or 1 x 3.5" fixed
Cooling System	SC513L-420/410: 3 x 4cm counter-rotating fans ; SC513L-260: 1 x 10cm heavy-duty blower ; SC513F-260: 2 x 4cm counter-rotating fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power on/Off button & System reset button
Dimension	W x H x D: 16.8" (424mm) x 1.7" (43mm) x 14" (356mm) Packing: 19.5" x 6.9" x 22.4"
Rail (optional)	Extendable lengths 25" to 33.5"
Temperature	Operating 10 - 35 ^{o}C (50 ^{o}to 95 ^{o}F) non-operating -40 - +70 ^{o}C (-40 ^{o}to 158 ^{o}F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◔ <45W CPU compatible
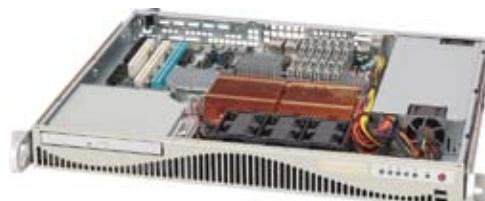
Model	MB (Max. 12" x 10")						PCI I/O	Drive	Cooling System	Power	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5	PD	P8	P4							
SC513L-420	●	●	◖				1 FH	2 x 2.5 fixed	3 x 10000rpm fans	420W	2	32	15 lbs
SC513L-410	●	●	◖				1 FH	2 x 2.5 fixed	3 x 10000rpm fans	410W DC (24-pin)	2	32	15 lbs
SC513L-260				●	●		1 FH	1 x 3.5" fixed or 2 x 2.5" option	1 x 5000rpm blower	260W	2	18	14.5 lbs
SC513F-260 (OEM)				●	●	◖	1 FH	1 x 3.5" fixed or 2 x 2.5" option	2 x 14000rpm fans	260W	2	18	14.5 lbs

Optional Kit	Model Part #	Description
Rail Kit	CSE-PT8	Rail Kit for 1U SC512, SC513, SC811 Chassis
Hard Drive Kit	CSE-PT73	2.5" Hard Drive Mounting Kit (SC513L-260 & SC513F-260)

SC512F *14.5" 1U Optimized Space Efficiency*
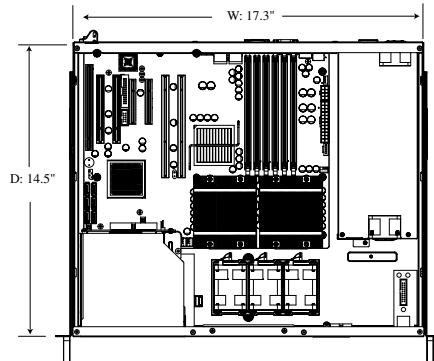
SC512F-280 (Beige/Black)

Front view (SC512F-520)

Rear view

W: 17.3"

D: 14.5"

Features

✔ 14.5" depth small form factor 1U   ✔ 520W/280W High-Efficiency power supply

Specifications

Form Factor	14.5" mini 1U chassis support for maximum motherboard size: 12" x 10" ATX
CPU support	Dual Xeon
Expansion	1 full-height & half-length expansion slot (with Riser Card)
Peripheral Drives	SC512F-520: 1 DVD-ROM & 2 USB 2.0 ports
	SC512F-280: 1 DVD-ROM
Drive Bays	SC512F-520, SC512F-520L: 1 x 3.5" fixed
	SC512F-280: 2 x 3.5" fixed
Power Supply	SC512F-520/520L: 520W high-efficiency power supply
	SC512F-280: 280W high-efficiency power supply
Cooling System	SC512F-520/520L: 3 x 4cm counter-rotating fans
	SC512F-280: 2 x 4cm counter-rotating fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.3"(439mm) x 1.7"(43mm) x 14.5" (369mm) Packing: 19.5" x 6.9" x 22.4"
Rail (optional)	Extendable lengths 28.5" to 33.25"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◐ <45W CPU compatible

Model	MB (Max. 12" x 10") X7	X6	PCI I/O	Drive	USB	CD-ROM	Cooling System	Power	+5V$_{SB}$	+12V	Gross Weight
SC512F-520	●	●	1 FH	1 fixed	2.0	slim	3 x 14000rpm fans	520W high-efficiency	3	39	14 lbs
SC512F-520L	●	●	1 FH	1 fixed	–	–	3 x 14000rpm fans	520W high-efficiency	3	39	14 lbs
SC512F-280	●		1 FH	2 fixed	_	slim	2 x 14000rpm fans	280W high-efficiency	2	23	13 lbs

Optional Kit	Model Part #	Description
Riser Card(s)	CSE-RR1U-X	1U 64-bit 3.3V PCI-X Riser Card (Full-height)
Rail Kit	MCP-290-00004-03	SC512F-520 chassis Rail kit

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SC512 *14" 1U Optimized Space Efficiency*

LCD Front Panel

- 2-line x 16-Character Backlit LCD
- USB Interface
- User Programmable
  (Linux application programing interface provided)

- 6 Function Buttons
  (Up, Down, Left, Right, Select, Cancel)

- Power switch, reset
  & 5 LED indicators
- Beige or black

Front view (SC512L-260/SC512L)

Rear view

W: 16.8"

D: 14"
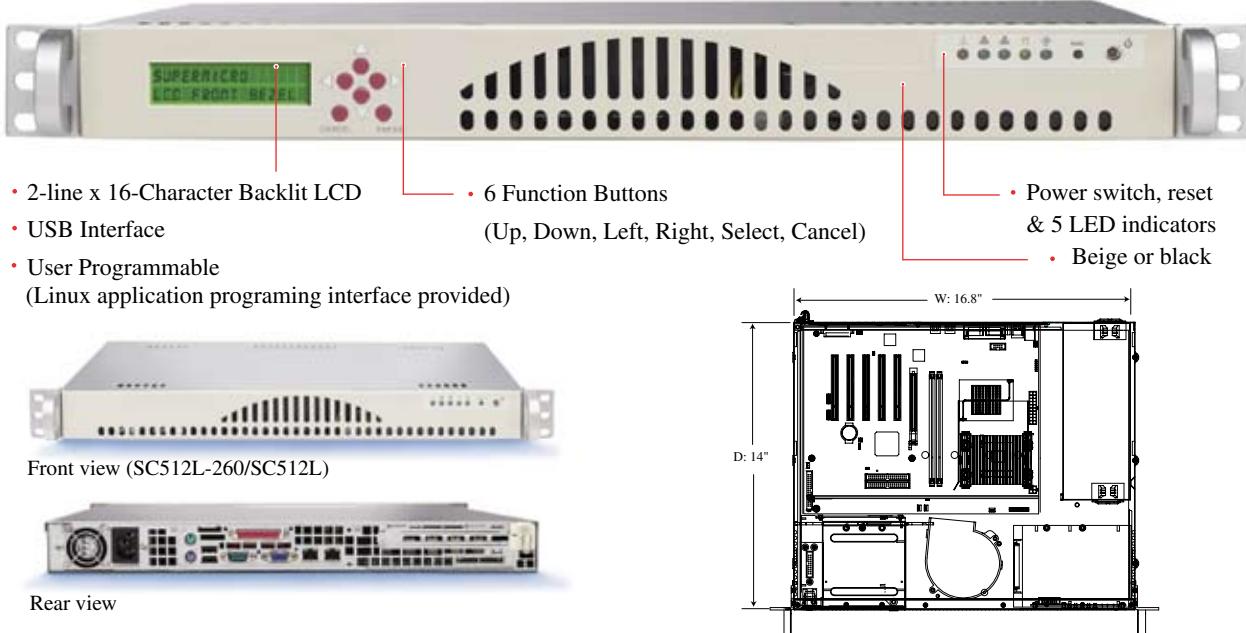
Features

14" depth small form factor 1U server, heavy duty blower for superior cooling

Specifications

Form Factor	14" mini 1U chassis support for maximum motherboard size: 12" x 9.7" ATX
CPU support	Pentium 4, Pentium D (SC512F-260 only)
Expansion	1 full-height & half-length expansion slot (with Riser Card)
Drive Bays	SC512L-260, SC512L & SC512L-260-LCD: 1 x 3.5" fixed
	SC512C-260 & SC512C & SC512F-260: 1 x 3.5" fixed
Cooling System	SC512L/SC512C-260 & SC512L & SC512C: 1 x 10cm blower; SC512F-260: 2 x 4cm counter-rotating fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 16.8" (427mm) x 1.7" (43mm) x 14" (356mm) Packing: 19.5" x 6.9" x 22.4"
Rail (optional)	Extendable lengths 28.5" to 33.25"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◖ <45W CPU compatible

Model	MB (Max. 12" x 9.7")				PCI I/O	Drive	USB	FDD	CD-ROM	Cooling System	Power	+5VSB	+12V	Gross Weight
	X6	PD	P8	P4										
SC512L				●	1 FH	2 fixed	–	–	–	1 x 3800rpm blower	200W	2	12	14 lbs
SC512L-260			●	●	1 FH	2 fixed	–	–	–	1 x 5000rpm blower	260W	2	18	14 lbs
SC512C				●	1 FH	1 fixed	2.0	slim	slim	1 x 3800rpm blower	200W	2	12	15 lbs
SC512C-260			●	●	1 FH	1 fixed	2.0	slim	slim	1 x 5000rpm blower	260W	2	18	15 lbs
SC512F-260 (OEM)		●	●	◖	1 FH	1 fixed	2.0	–	slim	2 x 14000rpm fans	260W	2	18	15 lbs
SC512LF-260 (OEM)	●				1 FH	1 fixed	2.0	–	slim	2 x 12500rpm fans	260W	2	18	15 lbs
SC512L-260-LCD (OEM)			●	●	1 FH	1 fixed	–	–	–	1 x 5000rpm blower	260W	2	18	14 lbs

Optional Kit	Model Part #	Description
Rail Kit	CSE-PT8	Rail kit for 1U 512, SC513, SC811 Chassis
Riser Card(s)	CSE-RR1U-X	1U 64-bit 3.3V PCI-X Riser Card (Full-height)
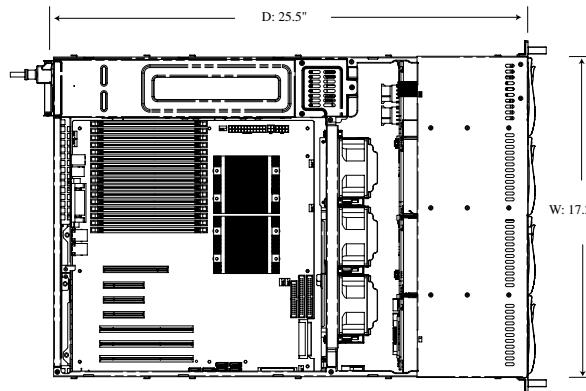
SC825 *2U 7 Low-Profile Expansion Slots*

Mechanical Drawing

Silver/Black

D: 25.5"

W: 17.2"

Features

✔ 700W redundant/560W power supply with high efficiency power (85% and up)
✔ 7 low-profile expansion slots
✔ Redundant power supply with advanced airflow/thermal-control design

Specifications

Form Factor	2U chassis support for max. motherboard size - 13.68" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	7 low-profile expansion slots
Peripheral Drives	1 slim DVD-ROM drive, 2 USB 2.0 ports & 2 x 3.5" bays for optional floppy drive or up to 2 fixed hard disk drives
Drive Bays	SC825S2-R700LP/560LP: 8 x 3.5" dual-channel (4 + 4) hot-swap SCA drive bays w/SAF-TE compliance & 1 x 3.5" drive bay
	SC825TQ-R700LP/560LP: 8 x 3.5" hot-swap SAS/SATA drive bays w/SES2 & 1 x 3.5" drive bay
Power Supply	SC825S2/SC825TQ-R700LP: 700W redundant high-efficiency power supply w/I^{2}C & fan speed control
	SC825S2-560LP & SC825TQ-560LP: 560W high-efficiency power supply & fan speed control
Cooling System	3 x 8cm hot-swap cooling fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2"(437mm) x 3.5"(89mm) x 25.5" (648mm) Packing: 23.8"x 9.8" x 32.9"
Rail	Extendable lengths 28.25" to 33"
Temperature	Operating 10 - 35°C (50° to 95°F) non-operating -40 - +70°C (-40° to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible   ◔ Certain configuration

Model	MB (Max. 13.68" x 13")					PCI I/O	Drive	Cooling System	Power +5V$_{SB}$ +12V			Gross Weight
	X7	X6	X5	PD	P8							
SC825S2-R700LP	●	●	◑	◑	◑	7 LP	8 dual-channel (4+4) SCA w/SAF-TE	3 x 6300rpm fans	700W redundant high-efficiency	4	57	52 lbs
SC825TQ-R700LP	●	●	◑	◑	◑	7 LP	8 SAS/SATA w/SES2	3 x 6300rpm fans	700W redundant high-efficiency	4	57	52 lbs
SC825S2-560LP	●	●	◑	◑	◑	7 LP	8 dual-channel (4+4) SCA w/SAF-TE	3 x 6300rpm fans	560W high-efficiency	3	43	50 lbs
SC825TQ-560LP	●	●	◑	◑	◑	7 LP	8 SAS/SATA w/SES2	3 x 6300rpm fans	560W high-efficiency	3	43	50 lbs
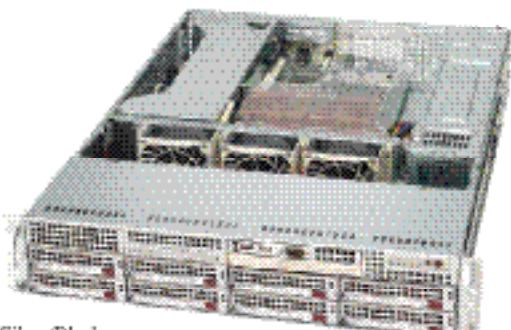
LP: Low-profile expansion slot

Optional Kit	Model Part #	Description
Riser Card(s)	RSC-R2UXE-X2E8	Passive Riser for 2U, 1PCI-X & 2 PCI-E x8
	RSC-R2UE-2E4R	Passive Riser card for 2U right slot, 2 PCI-E x4

SC825 *2U 3 Full-Length & 3 Low-Profile*
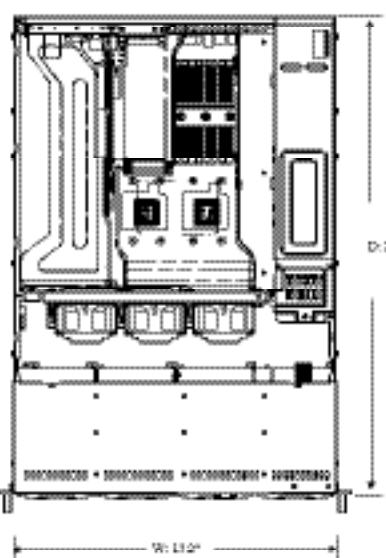
Mechanical Drawing

Silver/Black

Rear view (SC825S2/SC825TQ-R700RC)

D: 25.5"

W: 19.2"

Features

✔ Butterfly riser card ✔ 3 full-length & 3 low-profile expansion slots
✔ 700W redundant/560W power supply with high efficiency power (85% and up)
✔ Redundant power supply with advanced airflow/thermal-control design

Specifications

Form Factor	2U chassis support for max. motherboard size - 13.68" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	3 full-height & full-length & 3 low-profile expansion slots (Butterfly riser card required)
Peripheral Drives	1 slim DVD-ROM drive, 2 USB 2.0 ports & 2 x 3.5" bays for optional floppy drive or up to 2 fixed hard disk drives
Drive Bays	SC825S2-R700RC/R560RC: 8 x 3.5" dual-channel (4 + 4) hot-swap SCA drive bays w/SAF-TE compliance & 2 x 3.5" drive bay
	SC825TQ-R700RC/R560RC: 8 x 3.5" hot-swap SAS/SATA drive bays w/SES2 & 2 x 3.5" drive bay
Power Supply	SC825S2/SC825TQ-R700RC: 700W redundant high-efficiency power supply w/I²C & fan speed control
	SC825S2/SC825TQ-560RC: 560W high-efficiency power supply & fan speed control
Cooling System	3 x 8cm hot-swap cooling fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2"(437mm) x 3.5"(89mm) x 25.5" (648mm) Packing: 23.8"x 9.8" x 32.9"
Rail	Extendable lengths 28.25" to 33"
Temperature	Operating 10 - 35°C (50° to 95°F) non-operating -40 - +70°C (-40° to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◐ Compatible   ◑ Certain configuration

Model	X7 NB (Non-JAIST's-IC)	PCI I/O	Drive	Cooling System	Power	+5Vsb	+12V	Gross Weight
SC825S2-R700RC (OEM)	●	3 FF & 3 LP	8 dual-channel (4+4) SCA w/SAF-TE	3 x 6300rpm fans	700W redundant high-efficiency	4	57	52 lbs
SC825TQ-R700RC (OEM)	●	3 FF & 3 LP	8 SAS/SATA w/SES2	3 x 6300rpm fans	700W redundant high-efficiency	4	57	52 lbs
SC825S2-560RC (OEM)	●	3 FF & 3 LP	8 dual-channel (4+4) SCA w/SAF-TE	3 x 6300rpm fans	560W high-efficiency	3	43	50 lbs
SC825TQ-560RC (OEM)	●	3 FF & 3 LP	8 SAS/SATA w/SES2	3 x 6300rpm fans	560W high-efficiency	3	43	50 lbs

FF: Full-height & full-length expansion slot   LP: Low-profile expansion slot

Optional Kit	Model Part #	Description
Riser Card(s)	RSC-R2UXB-X2E8	Passive Riser for 2U, 1 PCI-X & 2 PCI-E x8
	RSC-R2UE-2E4R	Passive Riser card for 2U right slot, 2 PCI-E x4

SC823/SC822 *2U 7 Low-Profile Expansion Slots*
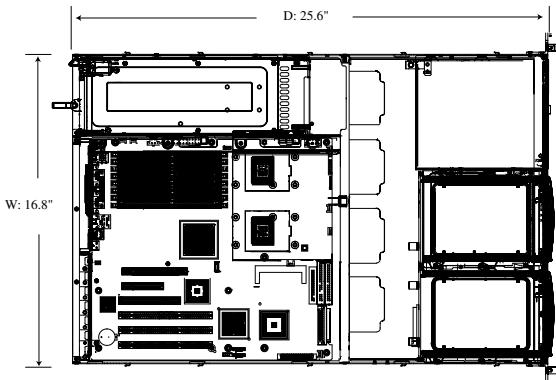
Mechanical Drawing

Beige/Black

D: 25.6"

W: 16.8"

Features

Offers superb benchmark performance for any rackmount servers, redundant power supply, advanced airflow/thermal-control design, 7 low-profile expansion slots

Specifications

Form Factor	2U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	7 low-profile full-length expansion slots
Peripheral Drives	1 FDD & 1 slim CD-ROM drive optional
Drive Bays	SC823S-550LP/R500LP & SC822S-400LP: 6 x 3.5" hot-swap SCA drive bays & 1 x 5.25" drive bay
	SC823T-550LP & SC823T/TQ*-R500LP & SC822T-550LP: 6 x 3.5" hot-swap SAS/SATA drive bays w/SES2 & 1 x 5.25" drive bay
	SC823i-550LP/300LP: 6 fixed drive bays & 1 x 5.25" drive bay
Cooling System	4 x 9cm hot-swap redundant cooling fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED (for redundant Power supply only)
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	Chassis: W x H x D: 16.8"(427mm) x 3.5"(89mm) x 25.6" (650mm)　　Packing: 23.8"x 9.8" x 32.9"
Rail	Extendable lengths 28.25" to 33"
Temperature	Operating 10 - 35 ^{o}C (50 ^{o}to 95 ^{o}F)　　non-operating -40 - +70 ^{o}C (-40 ^{o}to 158 ^{o}F)
Humidity	Operating 8 - 90% non-condensing　　non-operating 5 - 95% non-condensing

● Optimized　◖ Compatible　◔ Certain configuration　● <45W CPU optimized　◖ <45W CPU compatible

Model	Motherboard (Max. 12" x 13")						Drive	CD/FDD	Cooling System	Power	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5	PD	P8	P4							
SC823S-550LP	◔	●	◖	◔	◖	◖	6 SCA	Slim/Opt.	4 x 6300rpm fans	550W	2	42	50 lbs
SC823T-550LP	◔	●	◖	◔	◖	◖	6 SAS/SATA	Slim/Opt.	4 x 6300rpm fans	550W	2	42	50 lbs
SC823i-550LP	◔	●	◖	◔	◖	◖	6 fixed	Slim/Opt.	4 x 6300rpm fans	550W	2	42	50 lbs
SC823S-R500LP	◔	●	◖	◔	◖	◖	6 SCA	Slim/1	4 x 6300rpm fans	Redundant 500W w/I^{2}C	2	39	54 lbs
SC823T/TQ*-R500LP	◔	●	◖	◔	◖	◖	6 SAS/SATA w/SES2	Slim/1	4 x 6300rpm fans	Redundant 500W w/I^{2}C	2	39	54 lbs
SC822S-400LP			●	●	●	●	6 SCA	Slim/Opt.	4 x 3400rpm fans	400W	2	26	48 lbs
SC822T-550LP			●	●	●	●	6 SAS/SATA	Slim/Opt.	4 x 3400rpm fans	550W	2	42	49 lbs
SC822i-300LP						◖	6 fixed	Slim/Opt.	4 x 3400rpm fans	300W	2	15	47 lbs

* Only SC822TQ-R500LP chassis with SES2 support

Optional Kit	Model Part #	Description
Front USB Kit	CSE-PT29(B)	2-Port Front USB Kit (B = Black)
Peripheral Drive	DVM-PNSC-824(B)	Slim 8x DVD / 24x CD-ROM Combo Drive (B=Black)

SC823S/SC823T/SC823TQ

Beige/Black

Mechanical Drawing
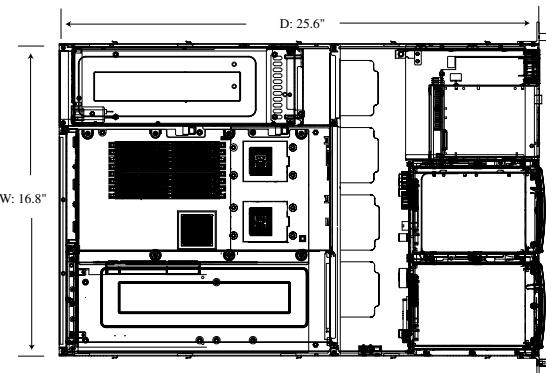
D: 25.6"

W: 16.8"

Features

Offers superb benchmark performance for any rackmount servers, redundant power supply, advanced airflow/thermal-control design, 3x full-height/length expansion slots

Specifications

Form Factor	2U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon
Expansion	3 full-height full-length expansion slots (with riser card)
Peripheral Drives	1 FDD & 1 slim CD-ROM drive
Drive Bays	SC823S-R500RC/SC822R-400RC: 6 x 3.5" hot-swap SCA drive bays & 1 x 5.25" drive bay
	SC823T-R500RC/SC823TQ*-R500RC & SC822T-R500RC: 6 x 3.5" hot-swap SAS/SATA drive bays w/SES2 & 1 x 5.25" drive bay
	SC823i-R500RC/SC822i-400RC: 6 fixed drive bays & 1 x 5.25" drive bay
Cooling System	4 hot-plug redundant cooling fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED (for redundant power supply only)
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	Chassis: W x H x D: 16.8" (427mm) x 3.5" (89mm) x 25.6" (650mm) Packing: 23.8" x 9.8" x 32.9"
Rail	Extendable lengths 28.25" to 33"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◖ Certain configuration   ● <45W CPU optimized   ◖ <45W CPU compatible

Model	MB Max. 12" x 13"			Drive	CD/FDD	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5							
SC823S-R500RC	◖	●	◖	6 SCA	Slim/1	4 x 6300rpm fans	500W Redundant w/I^{2}C	2	39	53 lbs
SC823T/TQ*-R500RC	◖	●	◖	6 SAS/SATA w/SES2	Slim/1	4 x 6300rpm fans	500W Redundant w/I^{2}C	2	39	53 lbs
SC823i-R500RC	◖	●	◖	6 fixed	Slim/1	4 x 6300rpm fans	500W Redundant w/I^{2}C	2	39	53 lbs
SC822T-R500RC			●	6 SAS/SATA	Slim/1	4 x 3400rpm fans	500W Redundant w/I^{2}C	2	39	53 lbs
SC822R-400RC			●	6 SCA	Slim/1	4 x 3400rpm fans	400W Redundant	2	26	53 lbs
SC822i-400RC			●	6 fixed	Slim/Opt.	4 x 3400rpm fans	400W	2	25	49 lbs

* Only SC823TQ-R500RC chassis with SES2 support

Optional Kit	Model Part #	Description
Front USB Kit	CSE-PT29(B)	2-port Front USB Kit (B = Black)
Rear Panel (low-profile)	CSE-PT21	7-slot Low-profile Rear Panel
Rear Panel (riser card)	CSE-PT22	2U Riser Rear Panel & Riser Carrier
Riser Card(s)	CSE-RR2UE-AX	3-slot PCI-E to PCI-X Active Riser Card
	CSE-RR2U-PS	3-slot PCI-X (SXB) to PCI-X Active Riser Card
	CSE-RR2U-X	2-slot PCI-X to PCI-X Passive Riser Card
Peripheral Drive	CDM-TEAC-24(B)	Slim 24x TEAC CD-ROM Drive (B = Black)
	DVM-PNSC-824 (B)	Slim 8x DVD/24x CD-ROM Combo Drive (B=Black)

SC836 *3U Chassis with 100% Cooling Redundancy*

SC836TQ/SC836E1/SC836E2/SC836S2

Mechanical Drawing

100% cooling redundancy

Sliver/Black

D: 25.5"

W: 17.2"
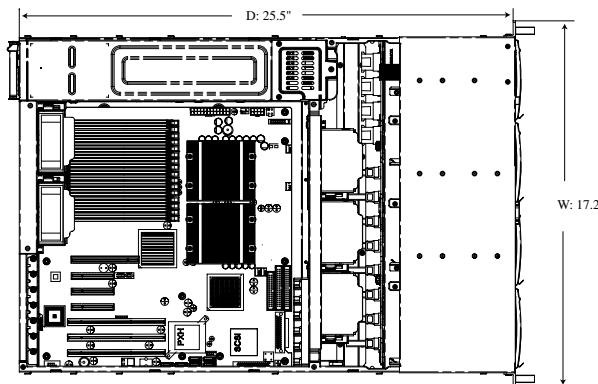
Features

✔ 16 hot-swap drives support
✔ 800W redundant power supply with high efficiency power (85% and up)
✔ 100% cooling redundancy
✔ 5 hot-plug redundant cooling fans

Specifications

Form Factor	3U chassis support for max. motherboard size - 13.68" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	7 expansion slots
Peripheral Drives	1 slim DVD-ROM drive, 2 USB 2.0 ports & 1 optional slim FDD
Drive Bays	SC836TQ-R800: 16 x 3.5" hot-swap SAS/SATA drive bays with SES2
	SC836E2-R800: 16 x 3.5" hot-swap SAS/SATA drive bays with SES2 (2 expanders for dual-port support)
	SC836E1-R800: 16 x 3.5" hot-swap SAS/SATA drive bays with SES2 (1 expander for single-port support)
	SC836S2-R800: 16 x 3.5" dual-channel (8+8) hot-swap SCA drive bays with SAF-TE compliance
Power Supply	800W redundant high-efficiency power supply w/I^{2}C & fan speed control
Cooling System	3 x 8cm hot-swap cooling fans, 2 x 8cm exhaust fans & air shroud
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2"(437mm) x 5.2"(132mm) x 25.5" (648mm)　　Packing: 26.6" x 13" x 33.9"
Rail	Extendable lengths 30" to 33"
Temperature	Operating 10 - 35°C (50°to 95°F)　　non-operating -40 - +70° C (-40° to 158°F)
Humidity	Operating 8 - 90% non-condensing　　non-operating 5 - 95% non-condensing

● Optimized　　◖ Compatible　　◐ Certain configuration

Model	MB (Max. 13.68" x 13.5")					Drive	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5	PD	P8						
SC836TQ-R800	●	●	◖	◐	◖	16 SAS/SATA w/SES2	5 x 6300rpm fans	800W redundant high-efficiency	4	66	70 lbs
SC836E2-R800	●	●	◖	◐	◖	16 SAS/SATA w/SES2 (for dual-ports)	5 x 6300rpm fans	800W redundant high-efficiency	4	66	70 lbs
SC836E1-R800	●	●	◖	◐	◖	16 SAS/SATA w/SES2 (for single-port)	5 x 6300rpm fans	800W redundant high-efficiency	4	66	70 lbs
SC836S2-R800	●	●	◖	◐	◖	16 dual-channel (8+8) SCA w/SAF-TE	5 x 6300rpm fans	800W redundant high-efficiency	4	66	70 lbs

Optional Kit	Model Part #	Description
Peripheral Drives	FPD-PNSC-SV	Panasonic 3.5" 1.44MB Floppy Drive (Silver color)
	FPD-PNSC-01	Panasonic 3.5" 1.44MB Floppy Drive (Black color)

SC833S/SC833T/SC833TQ view

Mechanical Drawing

100% cooling redundancy

Beige/Black

D: 25.5"

W: 17.7"
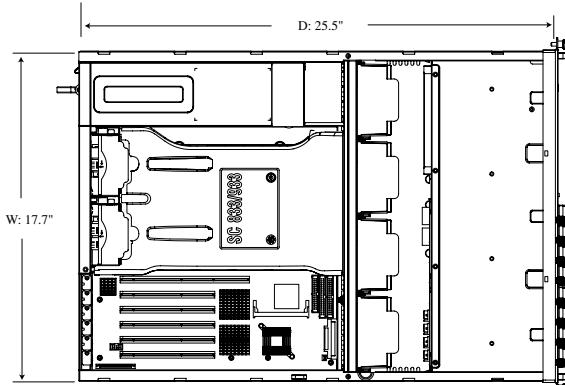
Features

8 hot-swap drive support, 760W triple redundant power supply, 100% cooling redundancy & 6 hot-plug redundant cooling fans

Specifications

Form Factor	3U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	6 expansion slots
Peripheral Drives	1 FDD & option 1 slim CD-ROM drive
Drive Bays	SC833S2-R760/550: 8 x 3.5" dual-channel (4 + 4) hot-swap SCA drive bays w/SAF-TE compliant & 2 x 5.25" drive bays
	SC833S-R760/550: 8 x 3.5" hot-swap SCA drive bays w/SAF-TE compliant & 2 x 5.25" drive bays
	SC833T-R760 & SC833T-550: 8 x 3.5" hot-swap SAS/SATA drive bays & 2 x 5.25" drive bays
Cooling System	4 x 9cm hot-swap cooling fans, 2 x 8cm exhaust fans & air shroud
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED (redundant only)
Front Panel Buttons	Power On/Off button, System Reset button & Mute button
Dimensions	W x H x D: 17.7" (450mm) x 5.2" (132mm) x 25.5" (647mm) Packing: 26.6" x 13.6" x 34.6"
Rail	Extendable lengths 28" to 33.67"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◑ <45W CPU compatible

Model	MB (Max. 12" x 13")					Drive	Cooling System	Power Supply +5V$_{SB}$ +12V			Gross Weight
	X7	X6	X5	PD	P8						
SC833S2-R760	●	●	◔			8 dual-channel (4+4) SCA w/SAF-TE	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	72 lbs
SC833S-R760	●	●	◔	◑	◔	8 SCA w/SAF-TE	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	72 lbs
SC833T-R760	●	●	◔	◑	◔	8 SAS/SATA	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	72 lbs
SC833S2-550	●	●	◔			8 dual-channel (4+4) SCA w/SAF-TE	6 x 5000rpm fans	550W		2	42	67 lbs
SC833S-550	●	●	◔	◑	◔	8 SCA w/SAF-TE	6 x 5000rpm fans	550W		2	42	67 lbs
SC833T-550	●	●	◔	◑	◔	8 SAS/SATA	6 x 5000rpm fans	550W		2	42	67 lbs

Optional Kit	Model Part #	Description
Front USB Kit	CSE-PT29(B)	2-Ports Front USB Kit (B=Black)
Peripheral Drives	CDM-TEAC-24(B)	Slim 24x TEAC CD-ROM Drive
	DVM-PNSC-824(B)	Slim 8x DVD ROM/24x CD-ROM Combo Drive (B= Black)

Mechanical Drawing

Beige/Black

D: 25.5"

W: 17.7"
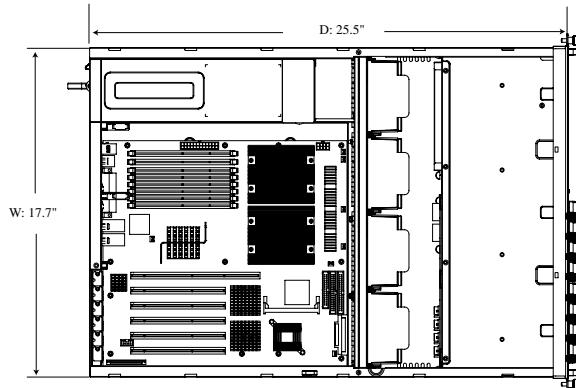
Features

3U form factor supports full-size slots, 8 hot-swap drives support, 760W triple redundant power & 4 hot-swap heavy-duty fans

Specifications

Form Factor	3U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	6 expansion slots
Peripheral Drives	1 FDD & optional 1 slim CD-ROM drive
Drive Bays	SC832S-R760/550: 8 x 3.5" hot-swap SCA drive bays w/SAF-TE compliant & 2 x 5.25" drive bays
	SC832T-R760 & SC832T-550: 8 x 3.5" hot-swap SAS/SATA drive bays & 2 x 5.25" drive bays
Cooling System	4 x 9cm hot-swap cooling fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED (redundant only)
Front Panel Buttons	Power On/Off button, System Reset button & Mute button
Dimensions	Chassis: W x H x D: 17.7" (450mm) x 5.2" (132mm) x 25.5" (648mm) Packing: 26.6" x 13.6" x 34.6"
Rail	Extendable lengths 28" to 33.67"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◖ <45W CPU compatible

Model	MB (Max. 12" x 13")				Drive	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X6	X5	PD	P8						
SC832S-R760	◖	●	◖	◖	8 SCA w/SAF-TE	4 x 4300rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	70 lbs
SC832T-R760	◖	●	◖	◖	8 SAS/SATA	4 x 4300rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	70 lbs
SC832S-550	◖	●	◖	◖	8 SCA w/SAF-TE	4 x 4300rpm fans	550W	2	42	67 lbs
SC832T-550	◖	●	◖	◖	8 SAS/SATA	4 x 4300rpm fans	550W	2	42	67 lbs

Optional Kit	Model Part #	Description
Front USB Kit	CSE-PT29(B)	2-Ports Front USB Kit (B=Black)
Peripheral Drives	CDM-TEAC-24(B)	Slim 24x TEAC CD-ROM Drive (B=Black)
	DVM-PNSC-824(B)	Slim 8x DVD / 24x CD-ROM Combo Drive (B = Black)

SC933 *3U Storage Chassis with 100% Cooling Redundancy*

Mechanical Drawing

100% cooling redundancy

Beige/Black

D: 25.5"

W: 17.7"
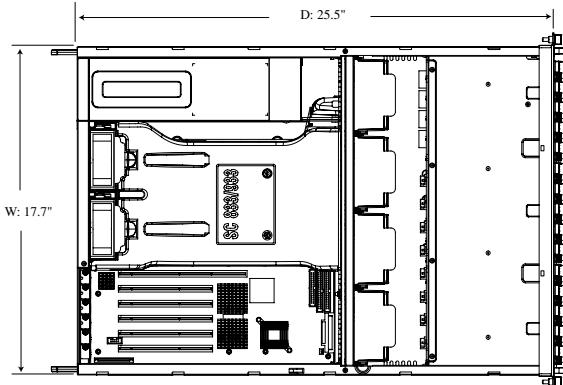
Features

100% cooling redundancy, supports up to 15 hot-swap SAS/SATA drives, 760W triple redundant power supply & 6 hot-plug redundant cooling fans

Specifications

Form Factor	3U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	6 expansion slots
Peripheral Drives	SC933S2-R760/SC933S1-R760: front side USB, 1 COM port & 1 x 2.5" SATA hot-swap bay
Drive Bays	SC933S2-R760: 14 x 3.5" dual-channel (7+7) hot-swap SCA drive bays with SAF-TE compliant
	SC933S1-R760: 14 x 3.5" hot-swap SCA drive bays with SAF-TE compliant
	SC933T-R760: 15 x 3.5" hot-swap SAS/SATA drive bays
	SC933E2-R760: 15 x 3.5" hot-swap SAS/SATA drive bays with SES2 (2 expanders for dual-port support)
	SC933E1-R760: 15 x 3.5" hot-swap SAS/SATA drive bays with SES2 (1 expander for single-port support)
Cooling System	4 x 9cm hot-swap cooling fans, 2 x 8cm exhaust fans & air-shroud
Front Panel LEDs	Power LED, network activity LED, system overheat LED & power fail LED
Front Panel Buttons	Power On/Off button, system reset button & mute button
Power supply	760W + 380W triple-redundant power supply w/I^{2}C built-in & fan speed control
Dimensions	W x H x D: 17.7" (450mm) x 5.2" (132mm) x 25.5" (648mm) Packing: 26.6" x 13.6" x 34.6"
Rail	Extendable lengths 28" to 33.67"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40° to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◐ Compatible   ◐ Certain configuration   ● <45W CPU optimized   ◐ <45W CPU compatible

Model	MB (Max. 12" x 13")					Drive	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5	PD	P8						
SC933S2-R760	●	●	◐			14 dual-channel (7+7) SCA w/SAF-TE	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	75 lbs
SC933S1-R760	●	●	◐	◐	◐	14 SCA w/SAF-TE	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	75 lbs
SC933T-R760	●	●	◐	◐	◐	15 SAS/SATA	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	75 lbs
SC933E2-R760	●	●	◐	◐	◐	15 SAS/SATA w/SES2 (for dual-port)	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	75 lbs
SC933E1-R760	●	●	◐	◐	◐	15 SAS/SATA w/SES2 (for single-port)	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	75 lbs

Optional Kit	Model Part #	Description
Control Board	CSE-PTJBOD-CB1	JBOD Storage Power-up Control Board

SC932 *3U Storage Chassis*

SC932S2/SC932S1

Mechanical Drawing

Beige/Black

D: 25.5"

W: 17.7"
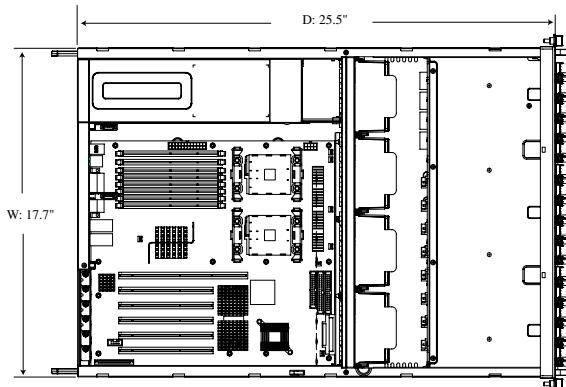
Features

Supports up to 15 hot-swap SAS/SATA drives, 760W triple redundant power supply & 4 hot-plug redundant cooling fans

Specifications

Form Factor	3U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	6 expansion slots
Peripheral Drives	SC932S2/932S1-R760: 2 front-side USB, 1 COM port & 1 x 2.5" SATA bay
Drive Bays	SC932S2-R760: 14 x 3.5" dual-channel (7 + 7) hot-swap SCA drive bays with SAF-TE compliant
	SC932S1-R760: 14 x 3.5" hot-swap SCA drive bays with SAF-TE compliant
	SC932T-R760/SC932TQ*-R760: 15 x 3.5" hot-swap SAS/SATA drive bays with SES2
Cooling System	4 x 9cm hot-swap cooling fans
Power supply	760W + 380W triple-redundant power supply w/I^{2}C built-in & fan speed control
Front Panel LEDs	Power LED, network activity LED, system overheat LED & power fail LED
Front Panel Buttons	Power On/Off button, system reset button & mute button
Dimensions	W x H x D: 17.7" (450mm) x 5.2" (132mm) x 25.5"(648mm) Packing: 26.6" x 13.6" x 34.6"
Rail	Extendable lengths 28" to 33.67"
Temperature	Operating 10 - 35°C (50° to 95°F) non-operating -40 - +70° C (-40° to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◐ Compatible   ◓ Certain configuration   ● <45W CPU optimized   ◐ <45W CPU compatible

Model	MB (Max. 12" x 13")				Drive	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X6	X5	PD	P8						
SC932S2-R760	◐	●			14 dual-channel (7+7) SCA w/SAF-TE	4 x 3500rpm fans	760W + 380W triple-redundant w/I ^{2}C	3.5	50	72 lbs
SC932S1-R760	◐	●	◐	◐	14 SCA w/SAF-TE	4 x 3500rpm fans	760W + 380W triple-redundant w/I ^{2}C	3.5	50	72 lbs
SC932T/TQ*-R760	◐	●	◐	◐	15 SAS/SATA w/SES2	4 x 3500rpm fans	760W + 380W triple-redundant w/I ^{2} C	3.5	50	72 lbs

* Only SC932TQ-R760 chassis with SES2 support

Optional Kit	Model Part #	Description
Control Board	CSE-PTJBOD-CB1	JBOD Storage Power-up Control Board

SC745-R800/700   *High-Efficiency Power Supply*
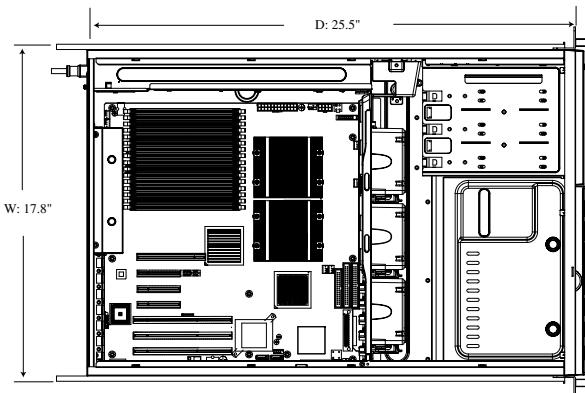
SC745S2/SC745TQ/SC745T

Mechanical Drawing

100% cooling redundancy

Beige/Black

D: 25.5"

W: 17.8"

Features

✔ 800W redundant/700W power supply with high efficiency power (85% and up) ✔ 4U Rackmount/Tower
✔ 8 hot-swap drive bays ✔ 90-degree rotatable module ✔ 7 tool-less expansion slots

Specifications

Form Factor	4U chassis support for max. motherboard size - 13.68" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	7 tool-less expansion slots
Peripheral Drives	90-degree rotatable module: 2 USB ports, 2 x 5.25" drive bays & 1 floppy drive bay
Drive Bays	SC745S2-R800/700: 8 x 3.5" dual-channel (4 + 4) hot-swap SCA drive bays with SAF-TE compliance
	SC745TQ-R800/700: 8 x 3.5" hot-swap SAS/SATA drive bays with SES2 compliance
Power supply	SC745S2/SC745TQ-R800: 800W redundant high-efficiency power supply w/I^{2}C & fan speed control
	SC745S2/SC745TQ-700: 700W high-efficiency cold-swap power supply w/I^{2}C & fan speed control
Cooling System	3 x 8cm hot-swap cooling fans, 2 x 8cm exhaust fans & air shroud
Front Panel Buttons	Power On/Off button & System Reset button
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED
Dimensions	W x H x D: 17.8"(452mm) x 7"(178mm) x 25.5" (648mm) Packing: 24.6" x 14" x 31.3"
Rail (optional)	Extendable length 26" to 38.25"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◖ Compatible   ◔ Certain configuration

Model	MB (Max. 13.68" x 13")					Drive Bays	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5	PD	P8						
SC745S2-R800	●	●	◖	◖	◔	8 dual-channel (4+4) SCA w/SAF-TE	5 x 5000rpm fans	800W redundant high-efficiency	4	66	62 lbs
SC745TQ-R800	●	●	◖	◖	◔	8 SAS/SATA w/SES2	5 x 5000rpm fans	800W redundant high-efficiency	4	66	62 lbs
SC745S2-700	●	●	◖	◖	◔	8 dual-channel (4+4) SCA w/SAF-TE	5 x 5000rpm fans	700W high-efficiency cold-swap	4	57	58 lbs
SC745TQ-700	●	●	◖	◖	◔	8 SAS/SATA w/SES2	5 x 5000rpm fans	700W high-efficiency cold-swap	4	57	58 lbs

Optional Kit	Model Part #	Description
Mounting Rails	CSE-PT26(B)	4U Chassis Rail Kit (Includes Side Handles) (B = Black)
Peripheral Drives	FPD-PNSC-02 (01)	Panasonic 3.5" 1.44MB Floppy Drive (01 = Black)
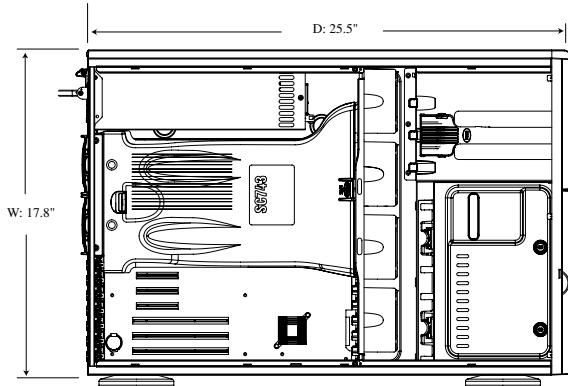
SC743S2/SC743S1/SC743TQ/SC743T

Mechanical Drawing

100% cooling redundancy

Beige/Black

D: 25.5"

W: 17.8"

Features

4U Rackmount/Tower, 8 hot-swap drive bays, 90-degree rotatable module, 7 tool-less expansion slots & 760W triple redundant power supply/650W power supply with redundant cooling fans

Specifications

Form Factor	4U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	7 tool-less expansion slots
Peripheral Drives	90-degree rotatable module: 2 USB ports, 2 x 5.25" drive bays & 1 floppy drive bay
Drive Bays	SC743S2-R760/SC743S2-650: 8 x 3.5" dual-channel (4 + 4) hot-swap SCA drive bays with SAF-TE compliant
	SC743S1-R760/SC743S1-650: 8 x 3.5" hot-swap SCA drive bays with SAF-TE compliant
	SC743T/TQ*-R760 & SC743T-650: 8 x 3.5" hot-swap SAS/SATA drive bays with SES2
	SC743i-R760/SC743i-650: 8 x 3.5" fixed drive bays
Cooling System	4 x 8cm hot-swap cooling fans, 2 x 8cm exhaust fans & air shroud
Power supply	760W + 380W triple-redundant power supply w/I^{2}C built-in & fan speed control
Front Panel Buttons	Power On/Off button & System Reset button
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED
Dimensions	W x H x D: 17.8"(452mm) x 7"(178mm) x 25.5" (648mm) Packing: 24.6" x 14" x 31.3"
Rail (optional)	Extendable length 26" to 38.25"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70° C (-40° to 158 ^{o}F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◐ <45W CPU compatible

Model	Motherboard (Max. 12" x 13")						Cooling System	Power Supply	+5SB	+12V	Gross Weight
	X7	X6	X5	PD	P8	P4					
SC743S2-R760	●	●	◑				8 dual-channel (4+4) SCA w/SAF-TE	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	66 lbs
SC743S1-R760	●	●	◑	◑	◑	◑	8 SCA w/SAF-TE	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	66 lbs
SC743T/TQ*-R760	●	●	◑	◑	◑	◑	8 SAS/SATA w/SES2	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	66 lbs
SC743i-R760	●	●	◑	◑	◑	◑	8 fixed	6 x 5000rpm fans	760W + 380W triple-redundant w/I^{2}C	3.5	50	66 lbs
SC743S2-650	●	●	◑				8 Dual-Channel (4+4) SCA w/SAF-TE	6 x 5000rpm fans	650W redundant cooling fans	4	46	56 lbs
SC743S1-650	●	●	◑	●	●	●	8 SCA w/SAF-TE	6 x 5000rpm fans	650W redundant cooling fans	4	46	56 lbs
SC743T-650	●	●	◑	●	●	●	8 SAS/SATA	6 x 5000rpm fans	650W redundant cooling fans	4	46	56 lbs
SC743i-650	●	●	◑	●	●	●	8 fixed	6 x 5000rpm fans	650W redundant cooling fans	4	46	56 lbs

* Only SC743TQ-R760 chassis with SES2 support

Optional Kit	Model Part #	Description
Mounting Rails	CSE-PT26(B)	4U Chassis Rail Kit (Includes Side Handles) (B = Black)
Peripheral Drives	FPD-PNSC-02 (01)	Panasonic 3.5" 1.44MB Floppy Drive (01 = Black)

Mechanical Drawing

Low-noise fan control

Beige/Black

D: 25.5"

W: 17.8"
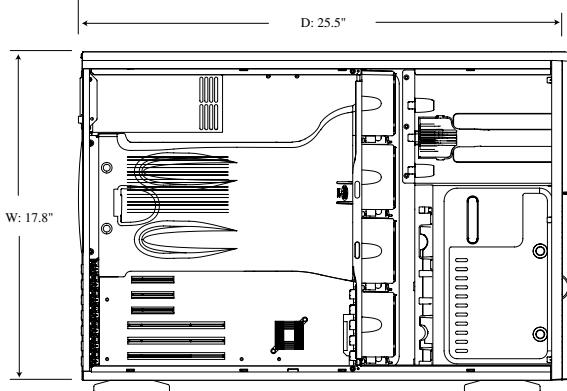
Features

8 hot-swap drive, 90-degree rotatable module, 7 tool-less expansion slots & power supply with low-noise fan speed control

Specifications

Form Factor	4U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	7 tool-less expansion slots
Peripheral Drives	90-degree rotatable module: 2 USB ports, 2 x 5.25" drive bays & 1 floppy drive bay
Drive Bays	SC743S1-645: 8 x 3.5" hot-swap SCA drive bays
	SC743T-645: 8 x 3.5" hot-swap SAS/SATA drive bays
	SC743i-645: 8 x 3.5" fixed drive bays
Cooling System	4 x 4-wire Pulse Width Modulated (PWM) fans & air shroud
Power supply	645W with low-noise fan speed control
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & system overheat LED & power fail LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.8"(452mm) x 7"(178mm) x 25.5" (648mm) Packing: 24.6" x 14" x 31.3"
Rail (optional)	Extendable lengths 26" to 38.25"
Temperature	Operating 10 - 35°C (50° to 95°F) non-operating -40 - +70° C (-40° to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◐ Compatible   ◑ Certain configuration   ● <45W CPU optimized   ◑ <45W CPU compatible

Model	MB Max. 12" x 13"			Drive	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5						
SC743S1-645	●	●	◑	8 SCA	4 x 5000rpm fans	645W with low-noise fan speed control	4	46	55 lbs
SC743T-645	●	●	◑	8 SAS/SATA	4 x 5000rpm fans	645W with low-noise fan speed control	4	46	55 lbs
SC743i-645	●	●	◑	8 fixed	4 x 5000rpm fans	645W with low-noise fan speed control	4	46	55 lbs

Optional Kit	Model Part #	Description
Mounting Rails	CSE-PT26(B)	4U Chassis Rail Kit (Includes Side Handles) (B = Black)
Peripheral Drives	FPD-PNSC-02 (01)	Panasonic 3.5" 1.44MB Floppy Drive (01 = Black)

SC742S/SC742T/SC742TQ

Mechanical Drawing

Beige/Black

D: 23.8"
W: 17.8"
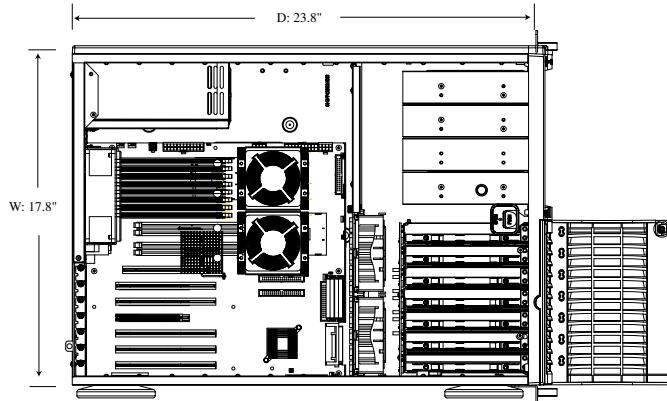
Features

4U rackmount or Tower, 7 hot-swap drive bays & 7 expansion slots

Specifications

Form Factor	4U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	7 expansion slots
Peripheral Drives	3 x 5.25" drive bays, 1 floppy drive bay & 2 front USB ports (SC742i-450 only)
Drive Bays	SC742S-600: 7 x 3.5" dual-channel (3 + 4) hot-swap SCA drive bays w/SAF-TE compliant & 4 x 5.25" drive bays
	SC742S-500/420: 7 x 3.5" hot-swap SCA drive bays & 4 x 5.25" drive bays
	SC742T-650: 7 x 3.5" hot-swap SAS/SATA drive bays & 4 x 5.25" drive bays
	SC742i-450/600/420/300: 7 fixed drive bays & 4 x 5.25" drive bays
Cooling System	SC742S-600/500/420/T/TQ-550: 2 x 9cm hot-swap cooling fans & 1 x 12cm exhaust fan
	SC742i-450/300: 1 x 9cm hot-swap cooling fans & 1 x 12cm exhaust fans
Dimensions	W x H x D: 17.8" (452mm) x 7" (178mm) x 23.8" (605mm) Packing: 24.6" x 14" x 29.9"
Front Panel Buttons	Power On/Off button, System Reset button & NMI
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED
Rail (optional)	Extendable lengths 26" to 38.25"
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70° C (-40° to 158 ^{o}F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◐ <45W CPU compatible

Model	Motherboard (Max. 12" x 13")						Drive	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5	PD	P8	P4						
SC742S-600	◔	◑	●	●	◑	◑	7 (3 + 4) dual-channel SCAw/SAF-TE	2 x 9cm & 1 x 12cm	600W + 300W triple redundant	2	40	56 lbs
SC742S-420		◑	●	●	●	●	7 SCA	2 x 9cm & 1 x 12cm	420W redundant cooling fan	2	30	49 lbs
SC742T-650	◔	◑	●	●	◑	◑	7 SAS/SATA	2 x 9cm & 1 x 12cm	650W redundant cooling	4	46	49 lbs
SC742i-450		◑	●	●	●	●	7 fixed	1 x 9cm & 1 x 12cm	450W low-noise redundant cooling	2	34	49 lbs
SC742i-600	◔	◑	●	●	◑	◑	7 fixed	2 x 9cm & 1 x 12cm	600W + 300W triple redundant	2	40	54 lbs
SC742i-420		◑	●	●	●	●	7 fixed	2 x 9cm & 1 x 12cm	420W redundant cooling fan	2	30	49 lbs
SC742i-300						●	7 fixed	1 x 9cm & 1 x 12cm	300W	2	15	45 lbs

| Optional Kit	Model Part #	Description
Mounting Rails	CSE-PT26(B)	4U Chassis Rail Kit (Includes Side Handles) (B = Black)
Peripheral Drives	FPD-PNSC-02 (01)	Panasonic 3.5" 1.44MB Floppy Drive (01 = Black)
Front USB	CSE-PT29(B)	Front side USB Kit (USB 2.0)

SC748S/SC748TQ

Mechanical Drawing

Beige/Black

D: 29.4"

W: 17.8"
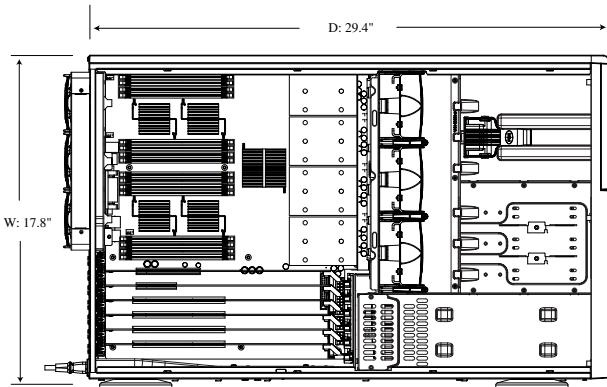
Features

Up to 10 hot-swap drive bays, 7 expansion slots & Front load 1000W (1+1) redundant high-efficiency power supply

Specifications

Form Factor	4U chassis support for max. motherboard size - 14.3" x 17" E-ATX
CPU support	Quad dual-core Xeon MP
Expansion	7 expansion slots
Peripheral Drives	2 front USB ports
Drive Bays	SC748S-R1000: 5 hot-swap SCA drive bays with SAF-TE & 3 x 5.25" drive bays or optional CSE-M35S mobile rack support
	SC748TQ-R1000: 5 hot-swap SAS/SATA drive bays with SES2 & 3 x 5.25" drive bays or optional CSE-M35TQ mobile rack support
Cooling System	3 x 9cm hot-swap cooling fans & 3 x 8cm exhaust fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.8"(452mm) x 7"(178mm) x 29.4" (746mm) Packing: 26.4" x 14" x 38.2"
Rail (optional)	Extendable lengths 26" to 38.25"
Temperature	Operating 10 - 35 C (50 to 95 F) non-operating -40 - +70 C (-40 to 158 F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◑ <45W CPU compatible

Model	MB	Drive	Power Supply	+5V$_{SB}$	+12V	Gross Weight
SC748S-R1000	X6QT8	5 SCA w/SAF-TE & 3 x 5.25" or optional CSE-M35S mobile rack support	1000W redundant high-efficiency w/I^{2}C	4	83	64 lbs
SC748TQ-R1000	X6QTE	5 SAS/SATA w/SES2 & 3 x 5.25" or optional CSE-M35TQ mobile rack support	1000W redundant high-efficiency w/I^{2}C	4	83	66 lbs

| Optional Kit	Model Part #	Description
Front USB Kit	CSE-PT29(B)	2 Ports Front USB Kit
Mobile Rack	CSE-M35TQ	SATA Mobile Rack 3 x 5.25" Openings to 5 x 3.5" Drives
	CSE-M34S	SCSI Mobile Rack 3 x 5.25" Openings to 4 x 3.5" Drives
	CSE-M28E1	SAS/SATA Mobile Rack 2 x 5.25" Openings to 8 x 2.5" Drives
	CSE-M28E2	SAS/SATA Mobile Rack 2 x 5.25" Openings to 8 x 2.5" Drives
Mounting Rails	MCP-290-00001-00	4U Chassis Rail Kit (Includes Side Handles)
Peripheral Drives	FPD-PNSC-02 (01)	Panasonic 3.5" 1.44MB Floppy Drive (beige)

SC942 *4U /Tower rackmount high-end Server chassis*

SC942S

Beige/Black

Mechanical Drawing

D: 23.8"

W: 17.8"
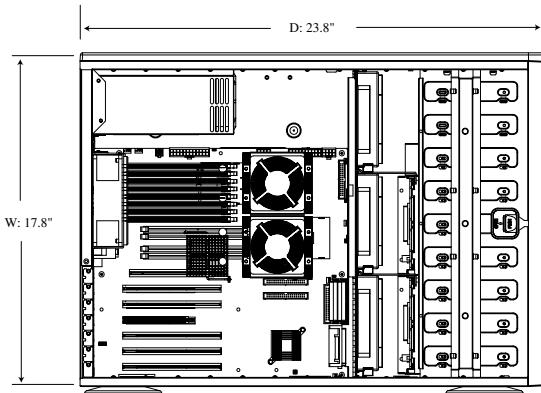
Features

Up to 15 hot-swap drive bays, 7 expansion slots & 760W triple redundant power supply

Specifications

Form Factor	4U chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon
Expansion	7 expansion slots
Peripheral Drives	2 front USB ports (SC942i-R760/600/500)
Drive Bays	SC942S-600: 10 x 3.5" dual-channel (5 + 5) SCA hot-swap drive bays with SAF-TE compliant (up to 15 x 3.5") & 3 x 5.25" drive bays
	SC942i-R760/550/600: 9 x 5.25" drive bays
Cooling System	SC942S-600/SC942i-R760/600: 3 x 12cm hot-swap cooling fans & 1 x 12cm exhaust fan
	SC942i-550/650: 2 x 12cm hot-swap cooling fans & 1 x 12cm low-noise exhaust fan
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.8" (452mm) x 7" (178mm) x 23.8" (605mm) Packing: 25" x 14" x 29.9"
Rail (optional)	Extendable lengths 26" to 38.25"
Temperature	Operating 10 - 35°C (50° to 95°F) non-operating -40 - +70° C (-40° to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◐ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◐ <45W CPU compatible

Model	MB Max. 12" x 13"			Drive	USB	Cooling System	Power Supply	+5V$_{SB}$	+12V	Gross Weight
	X7	X6	X5							
SC942S-600	◔	◐	●	10 dual-channel (5+5) SCA with SAF-TE & 3 x 5.25"	Opt.	4 x 12cm fans	600W + 300W triple redundant	2	40	64 lbs
SC942i-R760	◔	◐	●	9 x 5.25"	Yes	4 x 12cm fans	760W + 380W triple redundant w/ I ^{2}C	3.5	50	66 lbs
SC942i-650	◔	◐	●	9 x 5.25"	Yes	3 x 12cm fans	650W redundant cooling fan	4	46	49 lbs
SC942i-600	◔	◐	●	9 x 5.25"	Yes	4 x 12cm fans	600W + 300W triple redundant	2	40	50 lbs

Optional Kit	Model Part #	Description
Front USB Kit	CSE-PT29(B)	2 Ports Front USB Kit
Mobile Rack	CSE-M35T1	SATA Mobile Rack 3 x 5.25" Openings to 5 x 3.5" Drives
	CSE-M34S	SCSI Mobile Rack 3 x 5.25" Openings to 4 x 3.5" Drives
	CSE-M34T	SATA Mobile Rack 3 x 5.25" Openings to 4 x 3.5" Drives
	CSE-M28E1	SAS/SATA Mobile Rack 2 x 5.25" Openings to 8 x 2.5" Drives
	CSE-M28E2	SAS/SATA Mobile Rack 2 x 5.25" Openings to 8 x 2.5" Drives
Mounting Rails	CSE-PT26(B)	4U Chassis Rail Kit (Includes Side Handles)
Peripheral Drives	FPD-PNSC-02 (01)	Panasonic 3.5" 1.44MB Floppy Drive (beige)

SC733 *Mid-Tower Workstation Chassis*

Mechanical Drawing

D: 20.9"

H: 16.8"
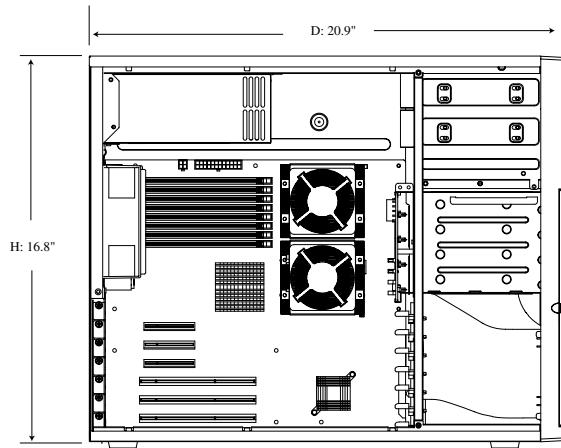
Features

4 hot-swap drives support, 7 expansion slots & 645W power supply w/low-noise fan speed control

Specifications

Form Factor	Mid-tower chassis support for max. motherboard size - 12" x 13" E-ATX
CPU support	Dual Xeon, Pentium D & Pentium 4
Expansion	7 expansion slots
Peripheral Drives	2 front USB ports & floppy
Drive Bays	SC733T-645/450/350 & SC733TQ-645: 4 x 3.5" hot-swap SAS/SATA drive bays with SES2 & 2 x 5.25" drive bays
	SC733i-645/450/300: 4 x 3.5" fixed & 2 x 5.25" drive bays
Cooling System	SC733T/i-645: 1 x 12cm & 1 x 9cm 4-wire Pulse Width Modulated (PWM) fans
	SC733T/i-450/350: 1 x 12cm exhaust thermal fan & 1 x 9cm cooling thermal fan
	SC733i-300: 1 x 12cm exhaust thermal fan
Dimensions	H x W x D: 16.8" (427mm) x 7" (178mm) x 20.9" (531mm) Packing: 24.2" x 12.8" x 26.4"
Front Panel LEDs	Power LED, hard drive activity LED, network activity LEDs & system overheat LED
Front Panel Buttons	Power On/Off button & System Reset button
Temperature	Operating 10 - 35°C (50°to 95°F) non-operating -40 - +70°C (-40°to 158°F)
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing

● Optimized   ◑ Compatible   ◔ Certain configuration   ● <45W CPU optimized   ◐ <45W CPU compatible

Model	Motherboard (Max. 12" x 13")						Drive	Cooling System	Power Supply	Gross Weight
	X7	X6	X5	PD	P8	P4				
SC733T/TQ*-645	◔	●	◑	●	●	◐	4 SAS/SATA w/SES2	1x12cm & 1x9cm PWM fans	645W w/low-noise fan speed control	40 lbs
SC733i-645	◔	●	◑	●	●	◐	4 fixed	1x12cm & 1x9cm PWM fans	645W w/low-noise fan speed control	40 lbs
SC733T-450		●	●	●	●	●	4 SAS/SATA	1x12cm & 1 x 9cm fans	450W w/low-noise redundant cooling	37 lbs
SC733T-350						●	4 SAS/SATA	1x12cm & 1 x9cm fans	350W	38 lbs
SC733i-450		●	●	●	●	●	4 fixed	1x12cm & 1x9cm fans	450W w/low-noise redundant cooling	37 lbs
SC733i-300						●	4 fixed	1x12cm fan	300W	39 lbs

* SC733TQ-645 chassis with SES2 only

2.5" SAS/SATA Mobile Rack

High performance, Scalability & Flexibility

For next generation enterprise server/storage solutions

Key Features
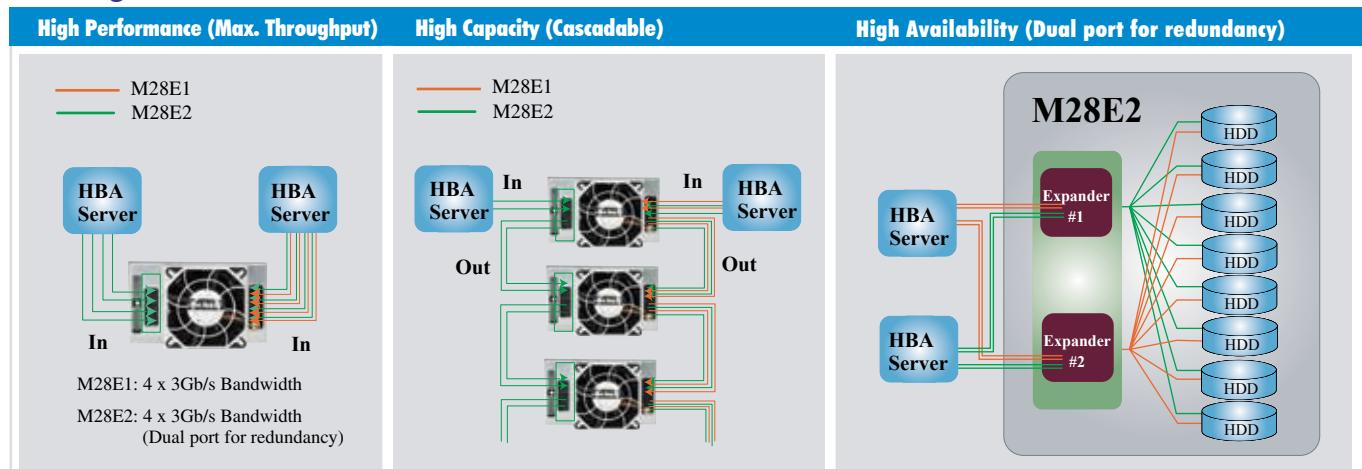
✔ 8 x 2.5" SFF hot-swappable SAS and SATA drive bays
✔ Supports 3 Gb/s SAS and SATA data transfer rates
✔ Universal connection-works w/ SAS and SATA drives
✔ Supports dual port SAS drives for redundancy
✔ Cascade up to 16 mobile racks
✔ 80mm exhaust fan for system cooling

SAS/SATA Mobile Rack Specifications

SAS/SATA Mobile Rack	SUPER○ CSE-M28E1	SUPER○ CSE-M28E2
Max. Bandwidth	4 x 3Gb/s	4 x 3Gb/s (Dual port)
Cascadable	Capable of 144 routing table entry	Capable of 144 routing table entry
Occupancy	2 x 5.25" drive bays	2 x 5.25" drive bays
Capacity	8 x 2.5" hot-swap SAS/SATA hard drives	8 x 2.5" hot-swap SAS/SATA hard drives
Daughter card	1 expander chip	2 expander chips
Cooling Subsystem	80mm exhaust fan	80mm exhaust fan
System Monitoring	. Overheat LED & alarm . Fan failure LED & alarm . Drive Activity LED	. Overheat LED & alarm . Fan failure LED & alarm . Drive Activity LED
Dimensions (W x H x D)	5.8" (147mm) x 3.4" (86mm) x 8.7" (220mm)	
Gross Weight	6 lbs	6 lbs
Cables	CBL-0116: Mini SAS 4i fan-out cable, CBL-0103: SAS 4i fan-out cable (CBL-0101 cascade crossover cable optional)	

Available Colors — beige / black

Configurations

High Performance (Max. Throughput)	High Capacity (Cascadable)	High Availability (Dual port for redundancy)

M28E1
M28E2

HBA Server   HBA Server

In   In

M28E1: 4 x 3Gb/s Bandwidth
M28E2: 4 x 3Gb/s Bandwidth
(Dual port for redundancy)

M28E1
M28E2

HBA Server   In   In   HBA Server

Out   Out

M28E2

HBA Server   Expander #1   HDD HDD HDD HDD HDD HDD HDD HDD HDD
HBA Server   Expander #2

M28T/M28TS SATA Mobile Rack Specifications

SAS/SATA Mobile Rack	SUPER●®CSE-M28T	SUPER●® CSE-M28TS
Occupancy	2 x 5.25" drive bays	2 x 5.25" drive bays
Capacity	8 x 2.5" hot-swap SAS/SATA hard drives	8 x 2.5" hot-swap SAS/SATA hard drives
Daughter card	N/A	AMI chip with SES-2
Cooling Subsystem	80mm exhaust fan	80mm exhaust fan
System Monitoring	. Overheat LED & alarm . Drive activity LED	. Overheat LED & alarm . Fan failure & alarm . Drive activity & failure LED
Dimensions (W x H x D)	5.8" (147mm) x 3.4" (88mm) x 8.7" (220mm)	
Gross Weight	6 lbs	6 lbs

M14T/M14TS SAS/SATA Mobile Rack Specifications

SAS/SATA Mobile Rack	SUPER●® CSE-M14T	SUPER●® CSE-M14TS
Occupancy	1 x 5.25" drive bays	1 x 5.25" drive bays
Capacity	4 x 2.5" hot-swap SAS/SATA hard drives	4 x 2.5" hot-swap SAS/SATA hard drives
Daughter card	N/A	Vitesse chip with SES-2
Cooling Subsystem	40mm exhaust fan	40mm exhaust fan
System Monitoring	. Overheat LED & alarm . Drive activity LED	. Overheat LED & alarm . Fan failure LED & alarm . Drive activity & failure LED
Dimensions (W x H x D)	5.8" (147mm) x 1.7" (43mm) x 7.9" (200mm)	
Gross Weight	4 lbs	4 lbs

SCSI & Serial ATA Mobile Racks Specifications

SCSI/SAS/SATA Mobile Rack	SUPER●®CSE-M35S	SUPER●®CSE-M35T-1/CSE-M35TQ *
Occupancy	3 x 5.25" drive bays	3 x 5.25" drive bays
Capacity	5 x 1" hot-swap SCA U320/160 hard drives with SAF-TE built-in	5 x 3.5" hot-swap SAS/SATA hard drives with SES2
Cooling Subsystem	90mm exhaust fan	90mm exhaust fan
System Monitoring	. Fan fail detection LED & alarm . Overheat LED indication alarm . Drive fail alarm & indication . Built-in termination	. Fan fail detection LED & alarm . Overheat LED indication . Drive activity LED
Dimensions (W x H x D)	5.8" (147mm) x 5" (127mm) x 9.7" (246mm)	
Gross Weight	7.5 lbs	7.5 lbs

* SES2 is only available on CSE-M35TQ model

SCSI & Serial ATA Mobile Racks Specifications

SCSI/SATA Mobile Rack	SUPER●®CSE-M34S (CSE-031)	SUPER●® CSE-M34T
Occupancy	3 x 5.25" drive bays	3 x 5.25" drive bays
Capacity	4 x 3.5" hot-swap SCA Ultra320/160 hard drives	4 x 3.5" hot-swap SATA hard drives
Cooling Subsystem	90mm exhaust fan	90mm exhaust fan
System Monitoring	. Fan fail detection LED and alarm . Overheat LED indication alarm . Built-in termination	. Fan fail detection LED and alarm . Overheat LED indication alarm . Drive activity LED
Dimensions (W x H x D)	5.8" (147mm) x 5" (127mm) x 9.7" (246mm)	
Gross Weight	6.8 lbs	6.8 lbs

All-in-One Zero-channel RAID Cards

Key RAID Features
. RAID detection, buildup, delete, error detection
. Background initialization
. Hot-spare disk drive support for easy replacement
. Hot-spare disk support with automatic rebuild
. S.M.A.R.T support (AOC-LPZCR2 only)
. Supports bootable arrays via jumper
. Storage management utility
. RAID configuration utility

Advantages
. Support SAS, SATA and SCSI modes (interchangeable via jumper settings)
. Utilize motherboard's existing SAS/SATA/SCSI host controller
. Eliminate the need of a SAS/SATA/SCSI I/O chip on motherboard. Save on the cost of a regular RAID card
. Offer high-speed throughput, scalability and space-saving/cost-effective hardware RAID solution

Low-Profile All-in-One Zero-Channel RAID Card

AOC-LPZCR2 NEW!	Zero-Channel RAID Card	
SES2 Features	. Provide disk drive activity, failure, presence & hot-spare indication for each drive slot . Provide buzzer/alarm control output . Temperature monitoring	
Compatible Controllers	. Adaptec AIC-9410W SAS Host Controller (8-port) . Adaptec AIC-8130 or AIC-8140 SATA Host Controller (4 or 8-port) . Adaptec AIC-7902 Dual Channel Ultra320 SCSI . AMI MG-9072 or AMI MG-9071 (4 or 8-port) SAS/SATA management chip	
Processor	Intel 600 MHz Verde I/O Processor	
Data Transfer Rate	SAS/SATA up to 300MB/sec per port; SCSI up to 320MB/sec per channel	
RAID Levels	0, 1, 10, 5, JBOD; 50 (SAS mode only)	
Cache Memory	256MB onboard ECC DDR memory	
Bus Type	64-bit/PCI-X 100MHz	
Dimensions	2.5" x 6.6" (W xH)	

Low-Profile All-in-One Zero-Channel RAID Card

AOC-LPZCR1	Zero-Channel RAID Card	
Compatible Controllers	. Adaptec AIC-9410W SAS Host Controller (8-port) . Adaptec AIC-8130 or AIC-8140 SATA Host Controller (4 or 8-port) . Adaptec AIC-7902 Dual Channel Ultra320 SCSI	
Processor	Intel 400 MHz Verde I/O Processor	
Data Transfer Rate	SAS/SATA up to 300MB/sec per port; SCSI up to 320MB/sec per channel	
RAID Levels	0, 1, 10, 5, JBOD; 50 (SAS mode only)	
Cache Memory	64MB onboard ECC DDR memory	
Bus Type	64-bit/PCI-X 100MHz	
Dimensions	2.5" x 6.6" (W xH)	

Socket DIMM All-in-One Zero-Channel RAID Card

AOC-SOZCR1	Zero-Channel RAID Card	
Compatible Controllers	. Adaptec AIC-9410W SAS Host Controller (8-port) . Adaptec AIC-8130 or AIC-8140 SATA Host Controller (4 or 8-port) . Adaptec AIC-7902 Dual Channel Ultra320 SCSI	
Processor	Intel 400 MHz Verde I/O Processor	
Data Transfer Rate	SAS/SATA up to 300MB/sec per port; SCSI up to 320MB/sec per channel	
RAID Levels	0, 1, 10, 5, JBOD; 50 (SAS mode only)	
Cache Memory	64MB onboard ECC DDR memory	
Bus Type	64-bit/PCI-X 100MHz	
Dimensions	3.2" x 3.8" (W xH)	

Storage Adapters

Low-profile RAID design

AOC-2020SA	SATA Zero-Channel RAID Card	
Key RAID Features	. Background initialization . S.M.A.R.T. support . Enclosure management support . Hot-swap disk drive support for easy replacement . Hot-spare disk support with automatic rebuild . Supports bootable arrays	
Processor	Intel 400 MHz Verde I/O processor	
Onboard Controller	Adaptec AIC-8130 or AIC-8140 SATA Host Controller (4 or 8-port)	
Device Support	1 SATA Hard Disk Drive per port	
Data Transfer Rate	Up to 300MB/sec per port	
RAID Levels	0, 1, 10, 5, JBOD; 50 (SAS mode only)	
Cache Memory	64MB onboard ECC DDR memory	
Bus Type	64-bit/PCI-X 100MHz	

Credit card size SO-DIMM RAID design

| AOC-2025SA	SATA Zero-Channel RAID Card	
Key RAID Features	. Background initialization . S.M.A.R.T. support . Enclosure management support . Hot-swap disk drive support for easy replacement . Hot-spare disk support with automatic rebuild . Supports bootable arrays	
Processor	Intel 400MHz Verde I/O processor	
Onboard Controller	Adaptec AIC-8130 or AIC-8140 SATA host controller	
Device Support	1 SATA Hard Disk Drive per port	
Data Transfer Rate	Up to 300 MB/sec per port	
RAID Levels	0, 1, 10, 5, JBOD	
Cache Memory	64 MB onboard ECC DDR Memory	
Bus Type	64-bit/PCI-X 100MHz	

## Affordable PCI-X Marvell Hercules-2 8-port, Low-profile card
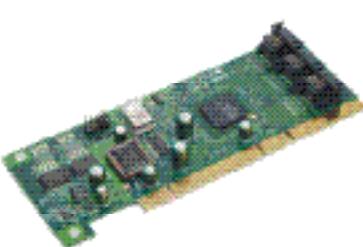
AOC-SAT2-MV8	8-port SATA Low-profile Card	
Key RAID Features	. Affordable, easy-install, eight-port Serial-ATA card . Storage arrays for Network Attached Storage (NAS) and Nearline Backup . Supports bootable arrays	
Onboard Controller	Marvell Hercules-2 88SX6081 SATA Host Controller	
Device Support	Up to 8 Serial-ATA disk drives, activity LED indicated for each drive (LED cables not included)	
Data Transfer Rate	Up to 300MB/sec per port	
RAID Levels	Software RAID supported	
Bus Type	64-bit/PCI-X 133MHz	
Internal Connectors	8 Serial ATA connectors	
Cables in Kit	8 x 2-ft Serial-ATA cables	

Low-profile RAID design
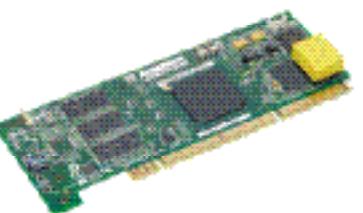
AOC-2020SA/T	SATA Zero-Channel RAID Card	
Key RAID Features	. Background initialization . S.M.A.R.T. support . Hot-swap disk drive support for easy replacement . Hot-spare disk support with automatic rebuild . Supports bootable arrays	
Processor	Intel 400MHz Verde I/O processor	
Onboard Controller	Adaptec AIC-8110 or AIC-8120 SATA host controller	
Device Support	1 SATA Hard Disk Drive per port	
Data Transfer Rate	Up to 150 MB/sec per port	
RAID Levels	0, 1, 10, 5, JBOD	
Cache Memory	64 MB onboard ECC DDR Memory	
Bus Type	64-bit/PCI 66MHz	

Model Part#	SNK-P0017	SNK-P0009	SNK-P0019	SNK-P0003
Application System	1U Form Factor	1U Form Factor	1U Form Factor	1U Form Factor
CPU Type	Intel Xeon (1333/1066/667FSB)	Intel Xeon (800FSB)	Intel Xeon processor LV	Intel Xeon (533/400FSB)
Socket Type	LGA 771	604 pin	479 pin	603/604 pin
Heat Sink Material	Copper base/Copper stacked fin	Copper base/Copper stacked fin	Aluminium Fin	Copper base/Copper stacked fin
Cooler Dimension	3.5"L x 3.1" W x 1.1" H	3.5"L x 3.1" W x 1.1" H	2" L x 2.5" W x 1.2" H	3.5" L x 3.1" W x 1.1" H
Mounting Method	Screw + Spring	Screw + Spring	Screw + Spring	Clip
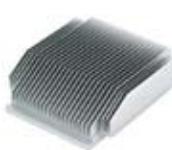
| Model Part#	SNK-P0004	SNK-0039	SNK-P0040	SNK-P0018
Application System	1U Form Factor	1U Form Factor	1U Form Factor	2U (+) Form Factor
CPU Type	Intel Xeon (533/400FSB)	Intel Xeon (533/400FSB)	Intel Xeon (533/400FSB)	Intel Xeon (1333/1066/667FSB)
Socket Type	604/603 pin	604 pin	604 pin	LGA 771
Heat Sink Material	Copper base/Copper stacked fin with single wing	Aluminium Fin	Copper skived fin	Copper base/Copper stacked fin
Cooler Dimension	3.5"L x 3.1" W x 1.1" H	2.6"L x 2.5" W x 1.1" H	3.5" L x 2.8" W x 1.5" H	3.5" L x 2.8" W x 1.5" H
Mounting Method	Clip	Clip	Screw + Spring	Screw + Spring

| Model Part#	SNK-P0025P	SNK-P0010	SNK-P0016	SNK-P0011
Application System	2U (+) Form Factor	2U (+) Form Factor	1U Form Factor	1U Form Factor
CPU Type	Intel Xeon (1333/1066/667FSB)	Intel Xeon (800FSB)	Intel Pentium D (667FSB)	Intel Pentium (LGA775)
Socket Type	LGA 771	604 pin	Socket T (LGA 775)	Socket T (LGA 775)
Heat Sink Material	Copper base/Aluminium fin & copper heat pipe	Copper base/Copper stacked fin	Copper base/Copper stacked fin	Copper base/Copper stacked fin
Cooler Dimension	3.5" L x 2.8" W x 1.5" H	3.5" L x 2.8" W x 1.5" H	3.5" L x 3.1" W x 1.1" H	3.5"L x 3.5" W x 1.1" H
Mounting Method	Screw + Spring	Screw + Spring	Screw + Spring	Screw + Spring
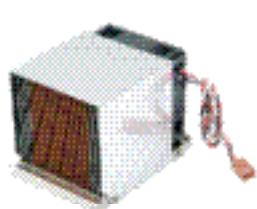
Model Part#	SNK-P0002	SNK-0032	SNK-0046	SNK-P0001
Application System	1U Form Factor	1U Form Factor	1U Form Factor	2U (+) Form Factor
CPU Type	Intel Pentium 4 (800FSB)	Intel Pentium 4 (533/400FSB)	Intel Itanium 2	Intel Itanium 2
Socket Type	478 pin	478 pin	mPGA700 ZIF	mPGA700 ZIF
Heat Sink Material	Copper base/Copper stacked fin	Aluminium Fin	Copper skived fin	Copper base/Copper stacked fin
Cooler Dimension	3.6"L x 3" W x 1.2" H	3.5" L x 2.5" W x 1.2" H	3.5"L x 3.1" W x 0.8" H	3.5"L x 3.1" W x 1.6" H
Mounting Method	Screw + Spring	Clip	Screw + Spring/Retention module	Screw + Spring

Active Heatsink & Fan

Model Part#	SNK-P0029A4	SNK-P0008A	SNK-P0008A4	SNK-P0021A
Description	Active heatsink for Xeon 1333/1066/667FSB 3U and above	Active heatsink for Xeon 800FSB 3U and above	Active heatsink for Xeon 800FSB 3U and above	Active heatsink for Xeon LV 667FSB 2U and above
Dimension	3.5" L x 3.1" W x 3.3" H	3.5" L x 3.1" W x 3.3" H	3.5" L x 3.1" W x 3.3" H	2.1" L x 2.5" W x 1.7" H
Connector	4 pin PWM	3 pin	4 pin PWM	3 pin
Net Weight	1145g	1145g	1145g	140g
Heatsink Material	Copper base/Copper stacked fin with aluminium cover	Copper base/Copper stacked fin with aluminium cover	Copper base/Copper stacked fin with aluminium cover	Aluminium fin with aluminium cover
Airflow Direction	Top	Top	Side	Top
Fin Dimension (mm)	2.8"L x 2.8" W x 0.9" H	2.8"L x 2.8" W x 0.9" H	2.8"L x 2.8" W x 0.9" H	1.6"L x 1.6" W x 0.4" H
Bearing Type	2 ball	2 ball	2 ball	2 ball
Speed	5800 RPM	5800 RPM	5800 RPM	4000 RPM
Max. Airflow	40.8CFM	40.8CFM	40.8CFM	3.74CFM
Rated Voltage	DC 12V	DC 12V	DC 12V	DC 12V
Input Current	0.40A	0.40A	0.40A	0.06A
Noise Level	51 dBA	51 dBA	51 dBA	20.5 dBA

Model Part#	FAN-0042-CU	FAN-050-CFT	FAN-0042-CF	SNK-P0015A4
Description	Active heatsink for Xeon 533/400FSB 3U and above	Active heatsink for Xeon 533/400FSB 3U and above	Active heatsink for Xeon with 533/400FSB 3U and above	Active heatsink for Pentium D 1066MHz 2U and above
Dimension	3.5" L x 2.7" W x 2.6" H	3.5" L x 3.1" W x 3.1" H	3.5" L x 2.7" W x 2.6" H	2.8" L x 2.8" W x 1.7" H
Connector	3 pin	3 pin	3 pin	4 pin PWM
Net Weight	580g	542g	496g	
Heatsink Material	Copper crimped fin/ Copper based	Copper base	Aluminium base/ Copper stacked fin	Copper Pillar/Aluminium extrude fin with push pin
Airflow Direction	Side	Top	Side	Top
Fin Dimension (mm)	2.4" L x 2.4" W x 0.6" H	2.4" L x 2.4" W x 0.9" H	2.8" L x 2.8" W x 0.9" H	3.7" L x 3.7" W x 1" H
Bearing Type	2 Ball	2 Ball	2 Ball	2 ball
Speed	4800 RPM	3600 – 7200 RPM	4800 RPM	4200 RPM
Max. Airflow	22 CFM	35.2 CFM	19.7 CFM	42.73 CFM
Rated Voltage	DC 12V	DC 12V	DC 12V	DC 12V
Input Current	0.26A	0.40A	0.20 A	0.44A
Noise Level	35 dBA	42 dBA	35 dBA	45 dBA

Riser Card

Left Slot

Model Part#	RSC-R1UEP-2E8	CSE-RR1U-X	CSE-RR1U-EL	CSE-RR1U-E16	CSE-RR1U-ELi
Form Factor	1U	1U	1U	1U	1U
Fit Type	PCI-E x16 & PCI-E x1	PCI-X	Universal PCI	PCI-E x16	Universal for PDSMi only
Output Type	2 PCI-E	PCI-X	PCI-E	PCI-E	PCI-E
Speed Type	2 PCI-E x8	133/100/66/33MHz	PCI-E x8	PCI-E x16	PCI-E x8
Position	Left slot	Left slot	Left slot	Left slot	Left slot
Chassis	SC819	SC811, SC812, SC813, SC814	SC811, SC812, SC813, SC814	SC811, SC812, SC813	SC811F, SC512F, SC513F

Left Slot

| Model Part#	RSC-R1UEP-A2X	CSE-RR1U-E8	RSC-RR1U-32L	CSE-RR1U-Xi
Form Factor	1U	1U	1U	1U
Fit Type	PCI-E x16, PCI-E x1	PCI-E x8	PCI-32 for PDSML-LN2/LN1	PCI-X for PDSMi only
Output Type	2 PCI-X	PCI-E	PCI-32	PCI-X
Speed Type	133/100/66/33MHz	PCI-E x8	33MHz	133/100/66/33 MHz
Position	Left slot	Left slot	Left slot	Left slot
Chassis	SC819	SC811, SC812, SC813, SC818+	SC811, SC512, SC513, SC813M	SC811F, SC512F, SC513F

Right Slot

Model Part#	RSC-R2UXE-XE8R	RSC-R2UE-2E4R	CSE-RR1U-XLP	CSE-RR1U-XR	CSE-RR1U-ELP	CSE-RR1U-ER
Form Factor	2U	2U	1U	1U	1U	1U
Fit Type	Universal	PCI-E x8	PCI-X	PCI-X	Universal PCI	Universal PCI
Output Type	1 PCI-X, 1 PCI-E	2 PCI-E	PCI-X low-profile	PCI-X full-size	PCI-E	PCI-E
Speed Type	133MHz & PCI-E x8	2 PCI-E x4	133/100/66/33MHz	133/100/66/33MHz	PCI-E x8 low-profile	PCI-E x8 low-profile
Position	right slot	right slot	right slot	right slot	right slot	right slot
Chassis	SC825	SC825	SC812, SC813	SC814, SC816	SC812, SC813	SC814, SC816

Left Slot

Model Part#	RSC-R2UXE-X2E8	CSE-RR2U-X33	CSE-RR2UE-AX	CSE-RR2U-PS	CSE-RR2U-LE
Form Factor	2U Passive Riser	2U Passive Riser	2U Active Riser	2U Active	2U Active
Fit Type	Universal	PCI-X	PCI-E x8 with SEPC	SXB slot for Intel-based MB	SXB slot for ServerWorks-based MB
Output Type	1 PCI-X & 2 PCI-E	2 slots PCI-X	3 slots PCI-X	3 slots PCI-X	3 slots PCI-X
Speed Type	133MHz & 2 PCI-E x8	133/100/66MHz	133/100/100MHz	133/100/66MHz	133/100/66MHz
Position	left slot	left slot	left slot	left slot	left slot
Chassis Type	SC825	2U	2U	2U	2U

Front Bezel

1U LCD Bezel Key Features
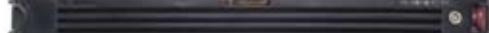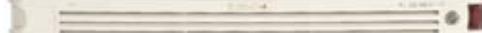
. Compatible with SC813, SC813M, SC814, SC815, SC816 series

. 6 Function buttons (Up, Down, Left, Right, Select, Cancel)

. 2-lines x 16-character backlit LCD

. USB interface

. User programmable (Linux application programing interface provided)

. Requires removal of floppy drive to install LCD bezel

. Key lock for security

SC813, SC814 SC815, SC816

Model Part#	MCP-210-00007-02 (OEM)	MCP-210-00007-01 (OEM)
Fit Type	1U Rackmount	1U Rackmount
Compatible Chassis	SC813/SC813M/SC814/SC815/SC816 series	SC813/SC813M/SC814/SC815/SC816 series
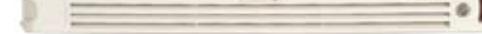
SC813

Model Part#	CSE-PTFB-813	CSE-PTFB-813B
Fit Type	1U Rackmount	1U Rackmount
Compatible Chassis	SC813 series	SC813 series
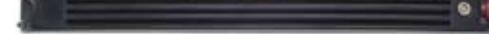
SC813

Model Part#	CSE-PTFB-813-02	CSE-PTFB-813-02B
Fit Type	1U Rackmoumt	1U Rackmoumt
Compatible Chassis	SC813 series	SC813 series

SC812
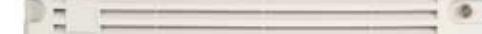
Model Part#	CSE-PTFB-812	CSE-PTFB-812B
Fit Type	1U Rackmount	1U Rackmount
Compatible Chassis	SC812 series	SC812 series

SC814

Model Part#	CSE-PTFB-814	CSE-PTFB-814B
Fit Type	1U Rackmount	1U Rackmount
Compatible Chassis	SC814/SC816 series	SC814/SC816 series

SC822/SC823

Model Part#	CSE-PTFB-820	CSE-PTFB-820B
Fit Type	2U Rackmount	2U Rackmount
Compatible Chassis	SC822/SC823 series	SC822/SC823 series

SIM (Supermicro Intelligent Management)
Featuring IPMI 2.0 Server Remote Management with KVM-Over-LAN

IPMI (Intelligent Platform Management Interface) is a hardware-level interface specification that defines a common, abstract message-based interface to platform monitoring and control functions. Providing peace of mind to the customers, SIM (Supermicro Intelligent Management) module implements IPMI 2.0 technology to provide remote access, monitoring and administration for Supermicro server platforms. With SIM, server administrators can view a server's hardware status remotely, receive an alarm automatically if a failure occurs, and power cycle a system that is non-responsive.

How does it work?
IPMI defines the protocols used for interfacing with an embedded service processor. This service processor is called Baseboard Management Controller (BMC) and resides on a server motherboard or in the chassis of a blade server or telecom platform. A BMC links to a main processor and other onboard elements via a simple serial bus.

What does it do?
Supermicro Intelligent Management (SIM) module monitors onboard instrumentation such as temperature sensors, power status, voltages and fan speed, and provides remote power control capabilities to reboot and/or reset the server. It also includes remote access to the BIOS configuration and operating system console information via SOL (Serial over LAN) or embedded KVM capabilities. Because the controller is a separate processor, the monitoring and control functions work regardless the CPU is operating or the system is powered on.

Anytime and Anywhere
An administrator accesses the BMC by using an IPMI-compliant management application loaded on a PC or via a web interface on a management appliance that includes IPMI management and KVM. The IPMI protocol leverages an out-of-band network (typically dedicated for server monitoring and management), which provides a flawless and secure path for mission-critical applications when regular in-band connectivity is lost or unresponsive. IPMI messages follow the same format whether they are received through an operating system or are sent and received out-of-band.

Additional features
SIM featuring the IPMI 2.0 specification supports Serial over LAN to redirect serial console functionality into IPMI over IP. Administrators can then gain full remote access to text-based system information and control for BIOS, utilities, operating systems and applications. IPMI 2.0 also offers major security enhancements. In summary, SIM includes the following key features.
   . Embedded microprocessor providing optional out-of-band KVM capabilities, extending the use of a single keyboard/monitor/mouse to the entire network.
   . Enhanced authentication support that provides stronger processes for establishing secure remote sessions and authenticating users.
   . Enhanced encryption support that allows for secure remote password configuration and protects sensitive system data when transferred over the network.

Key Features
. IPMI with KVM Over LAN
. Serial Over LAN (SOL)
. Virtual media over LAN
  (virtual USB floppy/CD and drive redirection)

. LAN Alert- SNMP Trap
. Event Log
. OS Independent
. Hardware Health Monitor

. Remote Power Control
. Management Tools - IPMIView, CLI
 (Command Line Interface)
. Support RMCP & RMCP+ protocols

Model	AOC-SIMLP-3 (+)	AOC-SIMLP-B (+)	AOC-SIMSO (+)
Description	IPMI 2.0 with virtual media over LAN & dedicated LAN & 3rd Data LAN port	IPMI 2.0 with virtual media over LAN & dedicated LAN	IPMI 2.0 with virtual media over LAN & dedicated LAN
Connector on Card	Dedicated LAN & 3rd Data LAN ports	Dedicated LAN	Mini USB w/8" cable for dedicated LAN
Dimensions	5.1" x 2.7"	5.1" x 2.7"	2.7" x 1.7"
(+): Optional Advanced Feature	KVM-over-LAN	KVM-over-LAN	KVM-over-LAN
Compatible Motherboard	X7DB8+, X7DBE+, X7DB8, X7DBE X7DB3, X7DVA-8, X7DVA-E, X7DB8-X X7DBE-X, X7DA8, X7DAE	X7DB8+, X7DBE+, X7DB8 X7DBE, X7DB8-X, X7DBE-X, X7DB3, X7DA8 X7DAE, X7DVA-8, X7DVA-E	X7DBR-8+, X7DBR-i+ X7DBR-3, X7DBR-E X7DBR-8, X7DBR-i
Optimized Chassis	2U and above	2U and above	1U and above
Bracket	Standard & low-profile	Standard & low-profile	Standard & low-profile

Server Remote Management
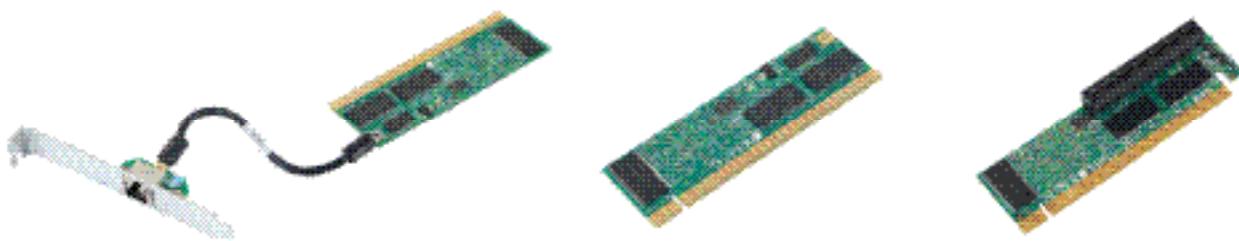
Model	AOC-SIM1U (+)	AOC-SIMLC (+)	AOC-SIM1U-3B (+)
Description	IPMI 2.0 with virtual media over LAN & dedicated LAN	IPMI 2.0 with virtual media over LAN	IPMI 2.0 with virtual media over LAN
Connector on Card	Mini USB w/8" cable for dedicated LAN	Mini USB port	PCI-E x8 (for AOC-SIM1U-3D only)
Dimensions	4.6" x 1.3"	4.6" x 1.3"	4.4" x 1.3"
(+): Optional Advanced Feature	KVM-over-LAN	KVM-over-LAN	KVM-over-LAN
Compatible motherboard	X7DB8+, X7DBE+, X7DB8, X7DBE X7DB8-X, X7DBE-X, X7DB3, X7DA8 X7DAE, X7DVA-8, X7DVA-E, X7DVL-E PDSM4+, PDSME+	X7DB8+, X7DBE+, X7DB8, X7DBE X7DB8-X, X7DBE-X, X7DB3, X7DA8 X7DAE, X7DVA-8, X7DVA-E, X7DVL-E PDSM4+, PDSME+	X7DBX-8, X7DBX-i
Optimized Chassis	1U & above	1U and above	SC814, SC816, SC819
Bracket	Standard & low-profile	–	–

AOC-SIM1U-3B(+) with AOC-SIM1U-3D   AOC-SIM1U-3D

| Model Part#	AOC-SIM1U-3D
Key Feature	Works in conjunction with Supermicro's 1U SIM IPMI card AOC-SIM1U-3B(+)
Description	Dedicated LAN & 3rd Data LAN ports
Dimensions	3.2" x 2.4"
Chassis support	SC814, SC816, SC819

IPMI 2.0 Server Remote Management

For Xeon 800/533/400MHz FSB & Pentium D/Pentium 4 1066/800/533MHz FSB

3rd LAN port

Model Part#	AOC-LPIPMI-LANG	AOC-LPIPMI	AOC-1UIPMI-B	AOC-IPMI20-E
Description	Low-profile IPMI 2.0 with 3rd LAN	Low-profile IPMI 2.0	1U IPMI 2.0	IPMI 2.0
Fit Type	2U and above	2U and above	1U	SO socket
Key Features	IPMI over LAN	IPMI over LAN	IPMI over LAN	IPMI over LAN
Dimensions	5.1" x 2.8"	5.1" x 2.8"	5.2" x 1.4"	2.5" x 1.97"
3rd LAN Option	3rd LAN port included	N/A	AOC-1UIPMI-LANG	N/A

Model Part#	AOC-1UIPMI-LANG
Key Feature	Works in conjunction with Supermicro's 1U IPMI riser card (AOC-1UIPMI-B)
Description	Intel 82541 Gigabit LAN controller
Dimensions	4.3" x 2.4"
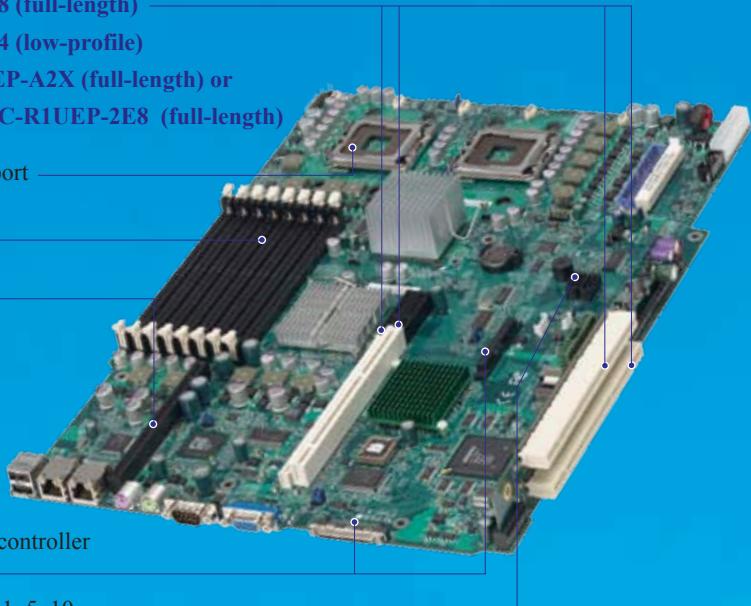
2U in 1U™ 4 + 1 Add-on Cards

1 Universal: PCI-X 133MHz or PCI-E x8 (full-length)

1 Universal: PCI-X 100MHz or PCI-E x4 (low-profile)

2 PCI-X 133MHz w/optional RSC-R1UEP-A2X (full-length) or

**1 PCI-E x8 & 1 PCI-E x4 w/optional RSC-R1UEP-2E8 (full-length)**

Dual-core Xeon 5100/5000 Sequence support

32GB ECC FB-DIMM DDRII 667/533

IPMI 2.0 with virtual media over LAN &

optional KVM-over-LAN &

3rd LAN port support

Adaptec 7902W dual-channel U320 SCSI controller
with host RAID 0, 1, 10

Intel ESB2 for 6 SATA (3 Gbps); RAID 0, 1, 5, 10

SUPER® X7DBX-8

1 Low-profile slot support

3 Full-height & full-length expansion slots support

5 high performance counter-rotating fans
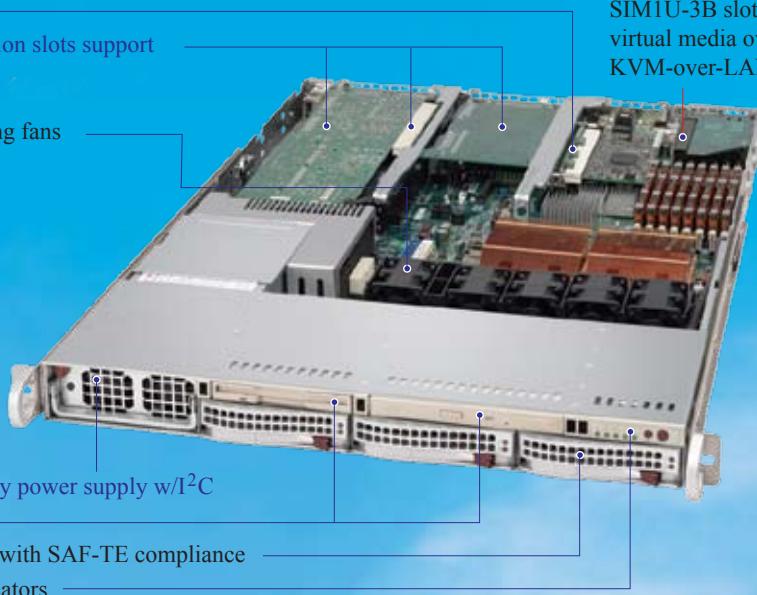
SIM1U-3B slot (IPMI 2.0 with
virtual media over LAN & optional
KVM-over-LAN & 3rd LAN port

700W Front-access High-Efficiency power supply w/I^{2}C

1 FDD & 1 slim DVD-ROM

3 x 3.5" hot-swap SCA drive bays with SAF-TE compliance

Power switch, reset & 6 LED indicators

SUPER® SC819S-700

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