



Altos BrainSphere™ R389 F4

The Altos BrainSphere™ R389 F4 is a robust two-socket 2U system that is ideal for almost any application. This dynamic system can function as a computing node for your HPC (High-Performance Computing) environments, or used for virtualization purposes in your cloud infrastructure. Extremely powerful and highly efficient, this system functions as the core for your most demanding data-center needs.

Extremely powerful

The BrainSphere™ R389 F4 supports up to two 2nd Gen. Intel® Xeon® Processor Scalable Family, and high-performance DDR4 memory occupying twenty-four DIMM slots. Storage device supports up to twenty-four 2.5" SATA/SAS hot-swappable hard drives. Hard drives can be configured in 12Gb/s SAS RAID and SAS HBA for increased performance and data availability. Altos R389 F4 is ideal for accelerating development for AI, deep learning, real time analytics in any area with up to 3 double-width GPU support.

Highly efficient

As with all Acer rack servers, the Altos BrainSphere™ R389 F4 uses only 80 PLUS-certified power supplies. This server can be equipped with up to two 1200 W 80 PLUS Platinum-level power supplies. Combine this with Load Reduced DIMM memory modules and the latest power-saving chipset technologies, this system delivers maximum performance with minimum power-draw. Four system fans keep the system running cool at all times.

Flexible and robust I/O

Qualified to work in any environment, this system has dual Gigabit Ethernet connectors onboard. It also has up to eight PCIe 3.0 slots and two OCP mezzanine slots.

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| Mainboard | Processor type | Up to 2 x Intel® Xeon Processor Scalable Family | | | |
| | Chipset | Intel® C621 chipset | | | |
| | Graphics | BMC Integrated 2D video controller : <ul style="list-style-type: none"> 16 MB DDR4 video memory | | | |
| | Memory | Up to 24 x 2933(1DPC)/2666/2400/2133 MHz DDR4 registered/load reduced memory Registered DIMM size: 8/16/32/64 GB Load Reduced DIMM size: 64 GB/128GB <ul style="list-style-type: none"> Up to 3076GB (LRDIMM) Support Intel® Optane™ DC Persistent Memory(DCPMM) | | | |
| | Expansion slots | 3x PCIe® 3.0 x16 slot 5x PCIe® 3.0 x8 slot | | | |
| | Onboard ports | 2 x OCP mezzanine slot (PCIe® 3.0 x16, Type1, P1, P2, P3, P4, K2, K3) Front: <ul style="list-style-type: none"> Power button, Reset button, NMI button LED indicators: Power, System Status, HDD activity, LAN, System ID, LAN activity 2x USB 3.0 port Rear: <ul style="list-style-type: none"> 2 x Gigabit LAN ports (RJ-45) 1 x Dedicated Management port (RJ-45) System ID button with LED Serial port (RJ-45) 2 x USB 3.0 port 1x Video port | | | |
| | SAS RAID LAN controller | Optional hardware SAS RAID card and SAS RAID module Intel® I350-AM2 dual-port 1GbE Ethernet controller | | | |
| Security and service features | | Chassis intrusion alert Administrator/user password | Power-on password Setup password | Device boot control Optional TPM (v2.0-compliant) | |
| Sub-system availability | Power supply System cooling Storage | 1+1 redundant, hot-swappable power supply units. 2000 W 80 PLUS® Platinum-certified AC power supply 4x 80x80x38mm fan (14,900rpm) 24x 2.5" SATA/SAS hot-swappable HDD/SSD bays | | | |
| Chassis | Form factor Dimensions Weight | 2U rack optimized 438(W) x 87.5(H) x 730(D) mm 21kg | | | |
| OS support | | Microsoft® Windows Server® 2019/2016/2012 R2 Update 1 Red Hat® Enterprise Linux® 7.6 | SUSE® Linux® Enterprise Server 12.3 VMware ESXi™ 6.7 Update 1 | | |
| Server management utilities and applications | | Acer Smart Server Manager Embedded BMC controller with IPMI 2.0 compatibility <ul style="list-style-type: none"> Web based management interface KVM over IP (HTML5 support) System ID LED buttons, System Health LED | | | |
| Warranty | | 3-year standard warranty or choose extended warranties and services ¹ | | | |
| Regulatory compliance | Emissions classification (EMC) | FCC (Class A) | CE (Class A) | BSMI (Class A) | CCC |
| | Industry standard compliance / safety | MET | CB | | |

1. Extended warranty services may vary by country. Please contact your Acer authorized reseller for more information.

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About Altos

Altos Computing Inc. (abbr. Altos) is established in 2017 and it is a subsidiary of Acer Inc. The business model of Altos is to provide the best streamlined and cost-effective integrated solutions thru in-house R&D working with ODM/IHV/ISV on servers, workstations, thin client, network and storage. In the era of demanding speed, Altos provides leading solution included, but not limited to High Performance Computing, Virtual Desktop Infrastructure, Cloud Infrastructure and Software Defined Storage, etc.

Altos provides solutions and services to government, academia, cloud service providers, datacenter operators and enterprises.

