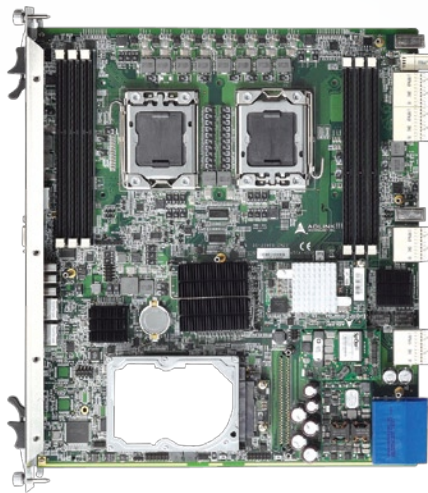


# aTCA-6105A/6155A Series

Dual Quad-Core Intel® Xeon® L5518/L5638/E5645 Processor  
AdvancedTCA® Processor Blade with 10GbE Fabric Interface



## Features

- Two Quad-Core Intel® Xeon® L5518/L5638/E5645 processors
- Six memory sockets support DDR3-1066/DDR3-1333\* REG/ECC up to 48 GB maximum capacity (\*DDR3-1333 is supported by Intel® 5600 series CPU only)
- Intel® 82599 10GbE controller provides two 10GBASE-KX4 ports on Fabric Interface
- Intel® Hyper-Threading Technology support for multi-threaded software applications
- Single AMC.0 Mid-size bay (optional)

**AdvancedTCA®**  
Intel® Ethernet

## Specifications

### CPU / Chipset / Memory

CPU	Two Intel® Xeon® L5638 (6C/12T) 2.0 GHz, QPI 5.86 GT/s, 12 MB L3 Cache Two Intel® Xeon® L5518 (4C/8T) 2.13GHz, QPI 5.86 GT/s, 8 MB L2 Cache (LGA1366) Single Intel® Xeon® E5645(6C/12T) 2.4 GHz, QPI 5.86 GT/s, 12 MB L3 Cache
Chipset	Intel® 5520/ICH10R chipset
Memory	Six DDR3-1066/DDR3-1333* 240-pin RDIMM sockets, up to 48 GB *DDR3-1333 is supported by Intel 5600 series CPU only

### BIOS

Chip	AMIBIOS®8 on SPI flash memory
Features	Intel® PXE pre-boot Remote Console

### I/O Interfaces

Graphics	ATI ES1000 with 64 MB VRAM, up to UXGA 1600 x 1200 resolution
AdvancedMC (optional)	One AMC.0 Mid-size bay: AMC.1 Type 4, AMC.2 E2 / Type 4 to Fabric, AMC.3 S2
Ethernet	Dual 10/100/1000BASE-T Base Interface channels Dual 10GBASE-KX4 Fabric Interface channels Dual 10/100/1000BASE-T Egress ports
Storage	On-board 2.5" SATA 3 Gb/s HDD (optional) On-board bootable 4 GB USB NAND flash Dual AMC.3 SATA 3 Gb/s ports (Port2) (optional) Dual AMC.3 SAS ports (Port3) (optional)
USB	Three USB 2.0 ports on front panel
Front Panel I/O	AMC (optional), VGA, USB1/2/3, LAN1/2, COM1

### PICMG Standards

AdvancedTCA	PICMG® 3.0 R2.0 ECN002 PICMG® 3.1 Ethernet Over PICMG® 3.0 R1.0 , Option 1/9
AdvancedMC	PICMG® AMC.0: AdvancedMC™ Card Specification R2.0 PICMG® AMC.1: PCI Express and Advanced Switching R1.0 PICMG® AMC.2: Gigabit Ethernet R1.0 PICMG® AMC.3: Storage Interfaces R1.0

### Other Features

Operating System	Windows® Server 2008, Windows® Server 2003, Red Hat Enterprise Linux 5.3
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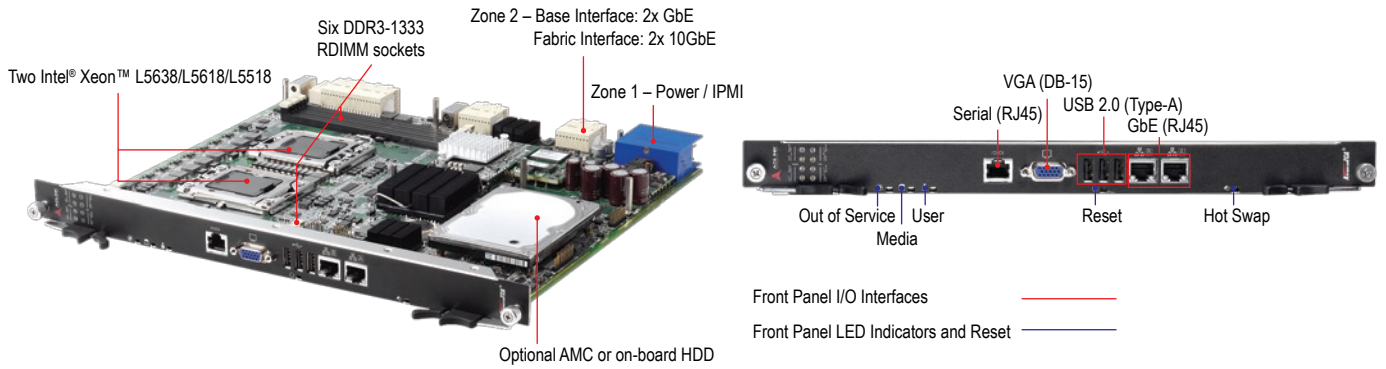
### Mechanical and Environmental

Form Factor	PICMG® 3.0 R2.0 ECN002 AdvancedTCA®
Dimensions	322.25mm x 280mm x 6HP (L x W x H)
Weight	4.1 kg / 9 lbs
Operating Temp.	0°C to 50°C
Storage Temp.	-40°C to 70°C
Humidity	5% to 95%, non-condensing
Shock	20G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88Grms, 5-500Hz each axis Operation: 0.5Grms, 5-500Hz each axis
Power Consumption	200W
Certification	FCC, CE, UL, NEBS Level 3 (design)

### Ordering Information

Model Number	Description/Configuration
<b>aTCA-6105A/S5518/M4G</b>	Single L5518 Quad-Core 2.13GHz Xeon 10GbE processor blade, DDR3 RDIMM 4GB x1, AMC bay
<b>aTCA-6155A/S5638/M12G</b>	Single L5638 Six-Core 2.0GHz Xeon 10GbE processor blade, DDR3 RDIMM 4GB x3, AMC bay
<b>aTCA-6155A/S5638/M16G</b>	Single L5638 Six-Core 2.0GHz Xeon 10GbE processor blade, DDR3 RDIMM 8GB x2, AMC bay
<b>aTCA-6155A/D5638/M48G</b>	Two L5638 Six-Core 2.0GHz Xeon 10GbE processor blade, DDR3 RDIMM 8GB x6, AMC bay
<b>aTCA-6155A/S5645/M12G</b>	Single E5645 Six-Core 2.4GHz Xeon 10GbE processor blade, DDR3 RDIMM 4GB x3, AMC bay
<b>aTCA-R6155</b>	Rear Transition Module with SFP GbE x2, USB x2, SAS/SATA HDD bay x2, COM x1
<b>AMC-7000/SATA320G</b>	Mid-size SATA 320GB AMC HDD module

# Mechanical Layout



# Functional Diagram

