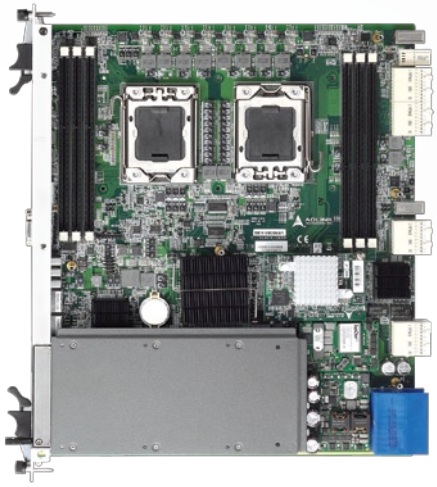
aTCA-6150

Dual Intel® Xeon® L5638 Processor 10 Gigabit Ethernet AdvancedTCA® Processor Blade



Features

- Two Intel® Xeon® L5638 (6C/12T) processors
- Six memory sockets support DDR3-1333 REG/ECC up to 48 GB maximum capacity
- Intel® 5520/ICH10R chipset
- Single AMC.0 Mid-size bay
- Dual 10GBASE-KX4 Fabric Interface channels
- Intel® Hyper-Threading Technology
- Intel® QuickPath Interconnect

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® L5618 (4C/8T) 1.87 GHz, QPI 5.86 GT/s, 12 MB L3 Cache
Chipset	Intel® 5520/ICH10R chipset
Memory	Six DDR3-1333 240-pin RDIMM sockets, up to 48 GB

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
AMC	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/KR Fabric Interface channels
	Dual 10/1001000BASE-T Egress ports
	Dual 1GbE XAUI ports to RTM
Storage	Dual AMC.3 SATA 3 Gb/s ports (Port2)
	Dual AMC.3 SAS ports (Port3)
	On-board bootable 4 GB USB flash memory
USB	Three USB 2.0 ports on front panel
Front Panel I/O	AMC, 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 , Option1/9
AdvancedMC	PICMG® AMC.0: AdvancedMC™ 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 5.4

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-condensed
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, CUL, NEBS Level 3 (design)

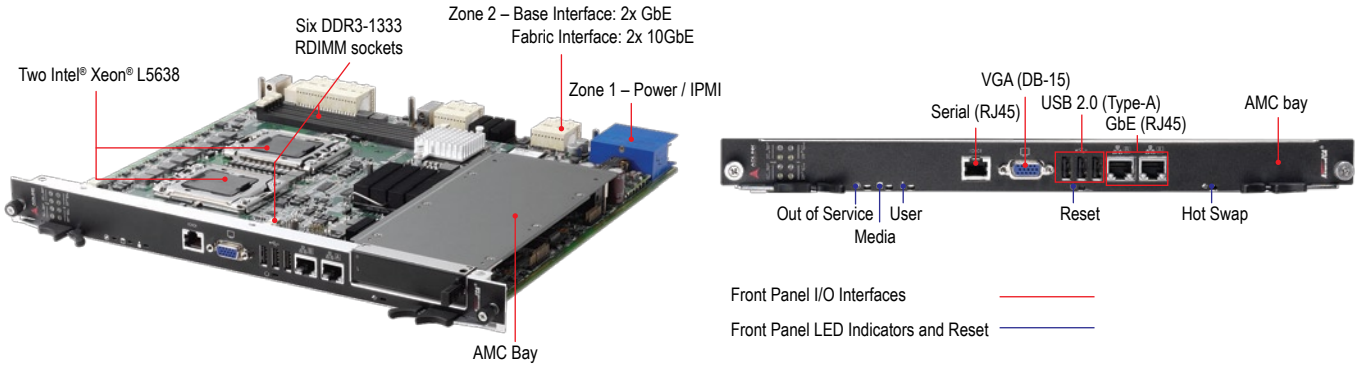
Ordering Information

Modules

Model Number	Description/Configuration
aTCA-6150A/D5618/M4G	Two L5638 Six-Core 2.0GHz Xeon 10GbE processor blade, DDR3 RDIMM 2GB x2, AMC bay
aTCA-6150A/D5638/M12G	Two L5638 Six-Core 2.0GHz Xeon 10GbE processor blade, DDR3 RDIMM 2GB x6, AMC bay
aTCA-R6900	Rear Transition Module with SFP GbE x2, USB x2, SAS/SATA HDD bay x2, COM x1
AMC-7000/SATA250G	Mid-size SATA 1.5 Gb/s 250GB AMC HDD module
AMC-7100/146G	Mid-size SAS 146GB AMC HDD module

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Mechanical Layout



Functional Diagram

