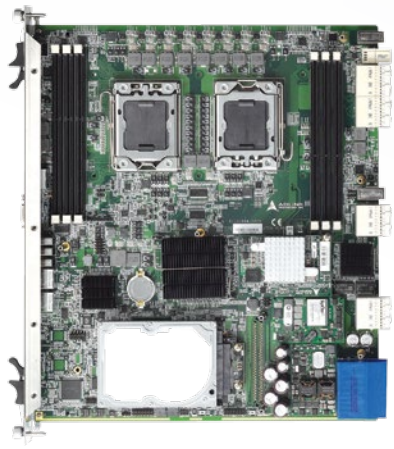
aTCA-6105A/6155A

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)

Intel® Ethernet AdvancedTCA®

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

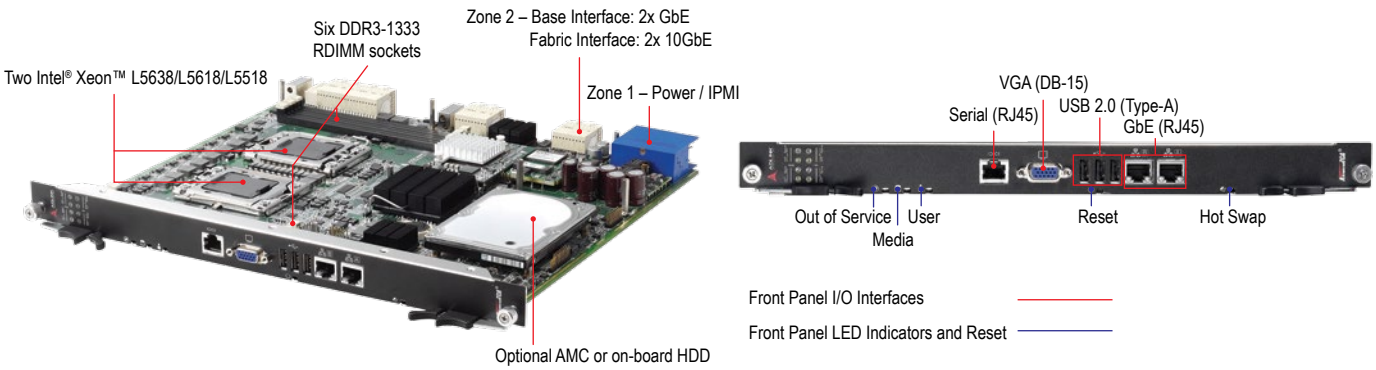
Mechanical and Environmental

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)

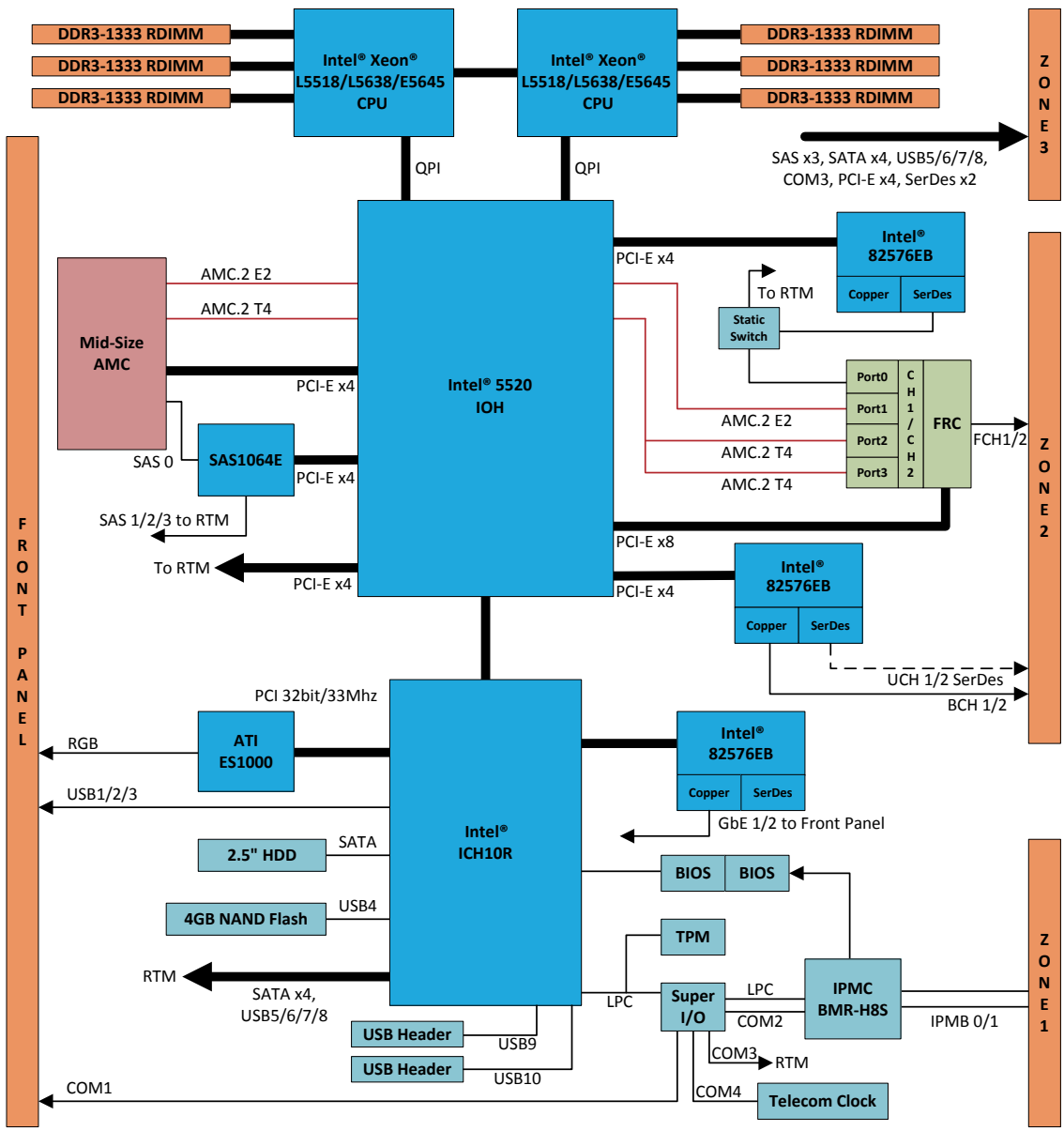
Ordering Information

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

Mechanical Layout



Functional Diagram



Note: All specifications are subject to change without further notice.

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