aTCA-6200

Dual Intel® Xeon® E5-2648L Processor
10 Gigabit Ethernet AdvancedTCA® Processor Blade

Features

- Two Intel® Xeon® E5-2648L (8C/16T) processors
- Eight memory sockets support DDR3-1600
- REG/ECC up to 128 GB
- Intel® C604 chipset
- Dual 10GBASE-KX4 Fabric Interface channels
- Intel® Hyper-Threading Technology
- Intel® QuickPath Interconnect

Intel® Ethernet

Specifications

CPU / Chipset / Memory

CPU & FSB	Two Intel® Xeon® E5-2648L (8C/16T) (Socket R)
Chipset	Intel® C604 chipset
RAM	Eight DDR3-1600 240-pin VLP RDIMM sockets, up to 128 GB

BIOS

Chip	AMI BIOS on SPI flash memory
Features	Intel® PXE pre-boot

Audio

Type	Onboard amplifier with Line-In, Speaker-out and Mic (on rear I/O panel)
	Line-In/Out, Speaker-out

I/O Interfaces

Graphics	Silicon Image SM750, PCI-E x1, up to 1920 x 1440 resolution
Ethernet	Dual 10/100/1000BASE-T Base Interface channels
	Dual 10GBASE-KX4 Fabric Interface channels
	Dual 10/1001000BASE-T egress ports
Storage	On-board bootable CFast socket
	Onboard 2.5 inch HDD mounting space (optional: shares space with AMC bay)
USB	Three USB 2.0 ports on front panel
Front Panel I/O	VGA, USB1/2/3, LAN1/2, COM1

PICMG Standards

AdvancedTCA	PICMG 3.0 R3.0
	PICMG 3.1 Ethernet Over PICMG 3.0, Option 9
AdvancedMC	PICMG AMC.0: Advanced Mezzanine 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 R2, Red Hat Enterprise Linux 6

Mechanical and Environmental

Form Factor	PICMG 3.0 R3.0 AdvancedTCA
Dimension	322.25mm x 280mm x 6HP (L x W x H)
Weight	TBD
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-operating: 1.88Grms, 5-500Hz each axis
	Operation: 0.5Grms, 5-500Hz each axis
Power Consumption	Max 270W
Certification	FCC, CE, CUL, NEBS Level 3 (design)

Ordering Information

Modules

Model Number	Description/Configuration
aTCA-6200/D2648L/M64G	Dual 8-core Intel® Xeon® E5-2648L 1.8GHz 10GbE processor blade, DDR3 RDIMM 64GB (8GB x8)
aTCA-6200/D2648L/M16G	Dual 8-core Intel® Xeon® E5-2648L 1.8GHz 10GbE processor blade, DDR3 RDIMM 16GB (8GB x2)
aTCA-6200/S2648L/M8G	Single 8-core Intel® Xeon® E5-2648L 1.8GHz 10GbE processor blade, DDR3 RDIMM 8GB
aTCA-R6270	aTCA-R6270 RTM with 1x RJ45 Serial Port, 2x USB 2.0 Port, 2x SFP+ 10GbE Port and 2x SAS/SATA HDD Bay (Hot Swappable)
AMC-7000/SATA 250G	Mid-size SATA 1.5 Gb/s 250GB AMC HDD module

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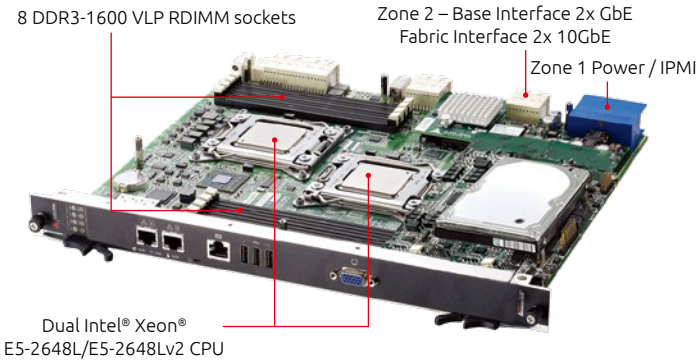
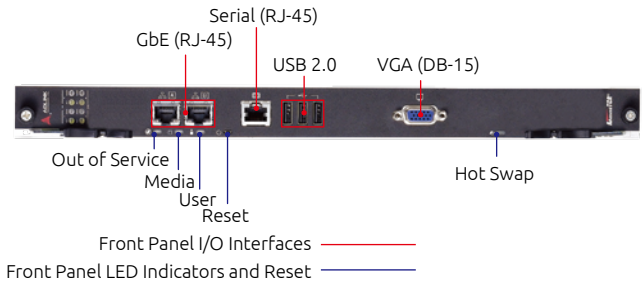
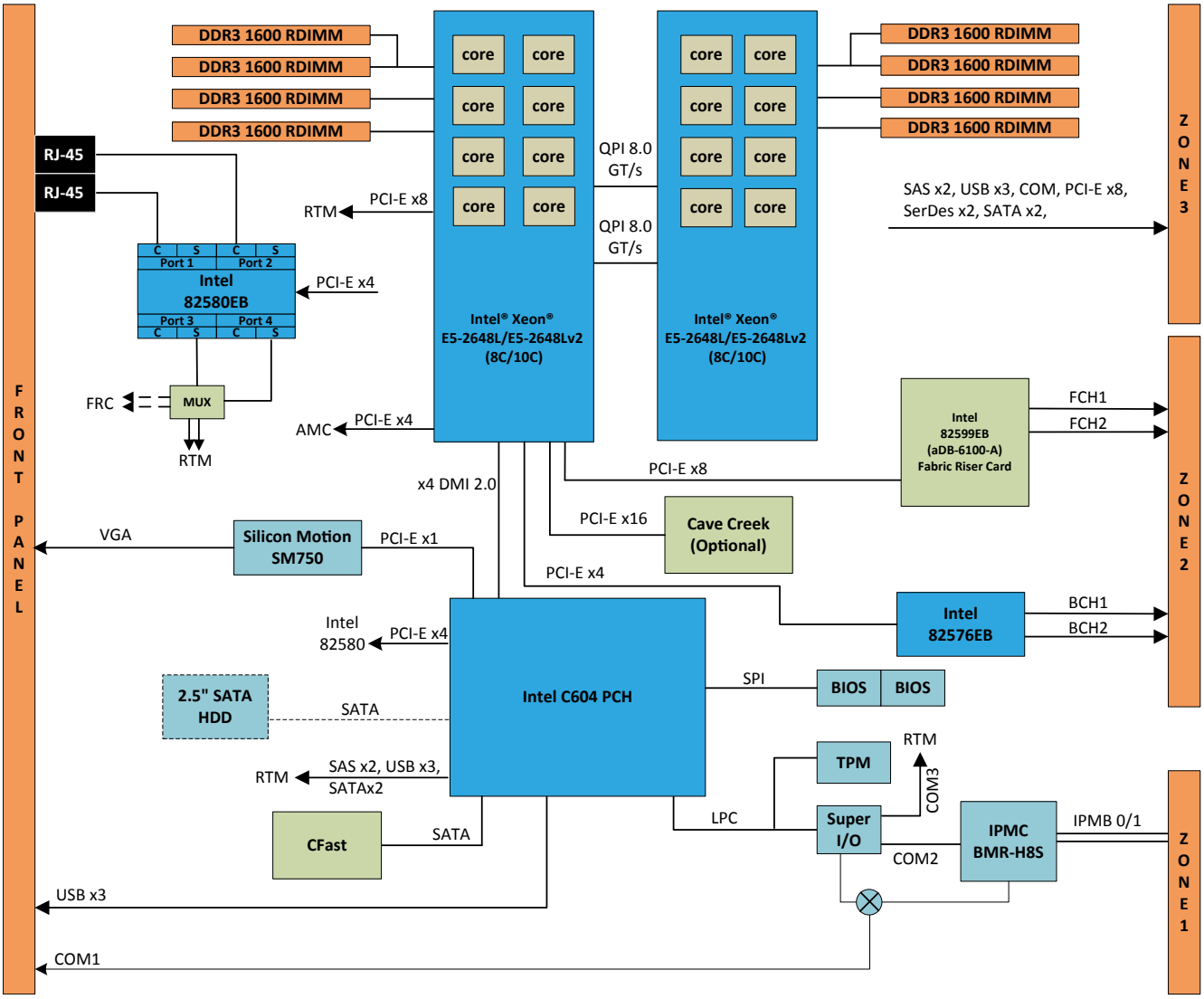
Mechanical Layout





Functional Diagram



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