aTCA-6200

Dual Intel® Xeon® E5-2600 / V2 Processor
10 Gigabit Ethernet AdvancedTCA® Processor Blade

Features

- Two Intel® Xeon® E5-2648L V2 (10C/20T) 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 V2 (10C/20T)

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

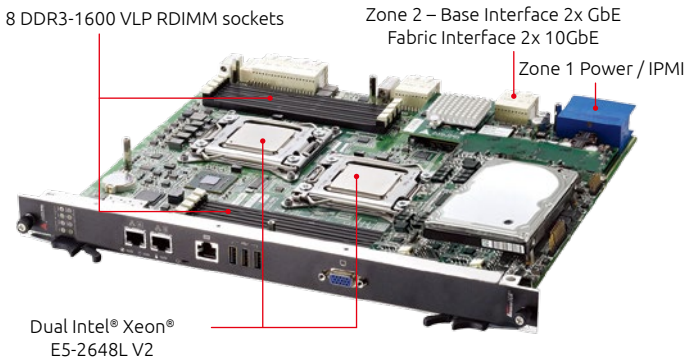
Humidity
5% to 95%, non-condensing

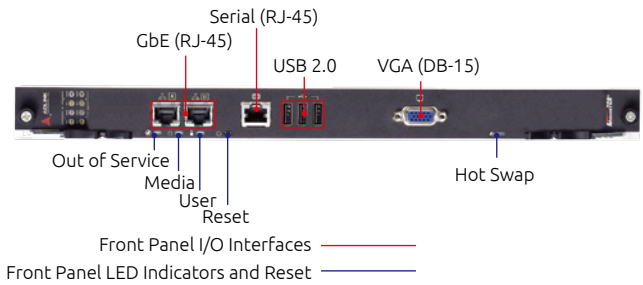
Shock
20G peak-to-peak, 11ms duration, non-operation

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)

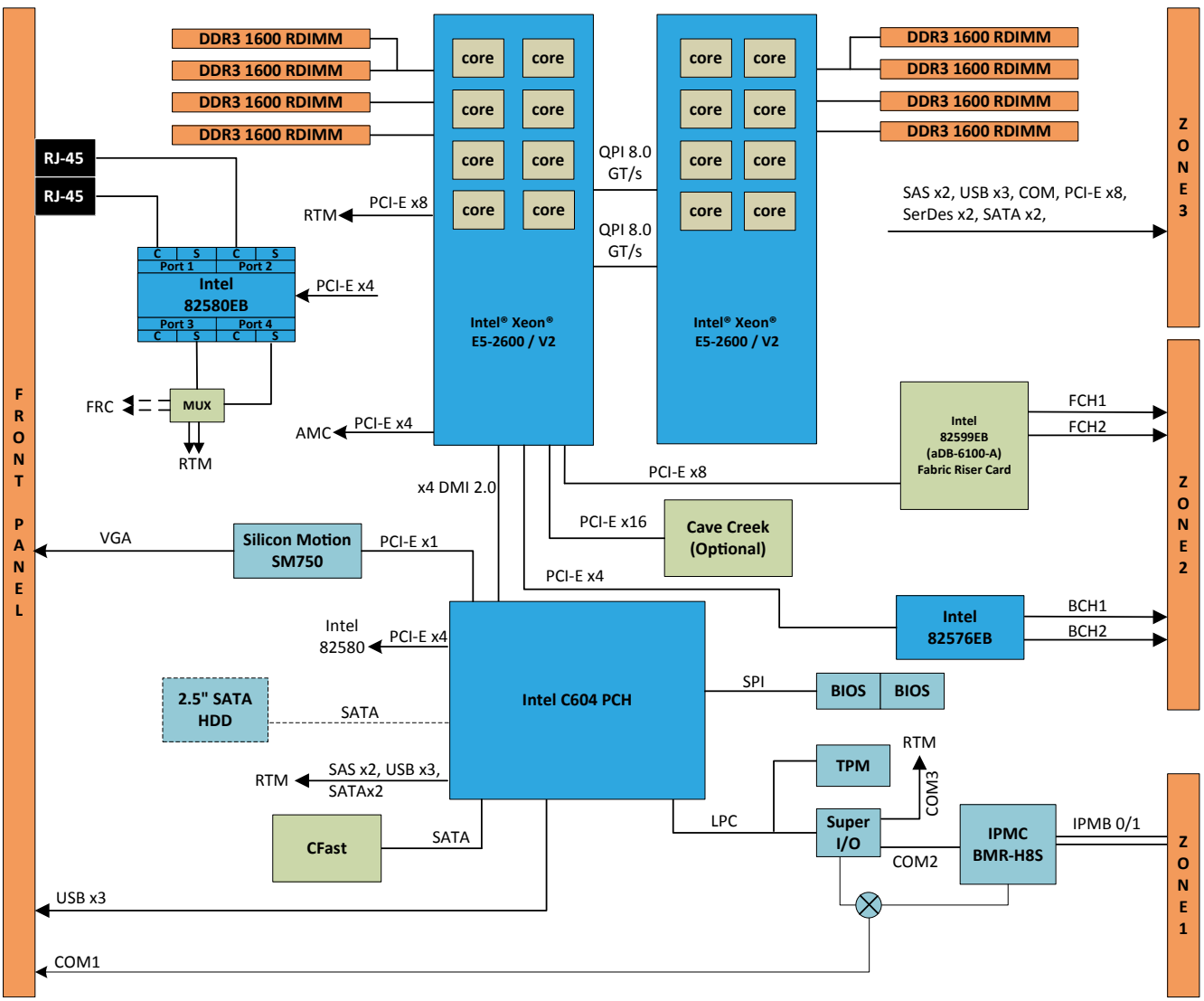
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Mechanical Layout





Functional Diagram



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