

## Features

- Two Intel® Xeon® E5-2658/ 2648L (8C/16T) processors
- Eight memory sockets support VLP DDR3-1600 REG/ECC up to 128 GB
- Intel® C604 PCH
- Dual 10GBASE-KX4 Fabric Interface channels
- Intel® Hyper-Threading Technology
- Intel® QuickPath Interconnect



## Specifications

### CPU / Chipset / Memory

CPU	Two Intel® Xeon® E5-2658 (8C/16T) (Socket R) Two Intel® Xeon® E5-2648L (8C/16T) (Socket R)
Chipset	Intel® C604 PCH
Memory	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 Remote Console

### I/O Interfaces

Graphics	Silicon Motion 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 Quad 10/100/1000BASE-T Egress Ports or Quad SFP GbE Egress ports (optional)
Storage	On-board bootable 16GB SATA DOM, up to 32G
USB	Two USB 2.0 ports on front panel
Front Panel I/O	VGA, USB1/2, LAN1/2/3/4, COM1/2 (mini-USB)

### PICMG Standards

AdvancedTCA	PICMG 3.0 R3.0 PICMG 3.1 Ethernet Over PICMG 3.0, Option 9
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### Other Features

Packet Processing	Optional hardware offload for packet processing acceleration
Acceleration daughter card	
Operating System	Server 2008 R2, Red Hat Enterprise Linux 6.2

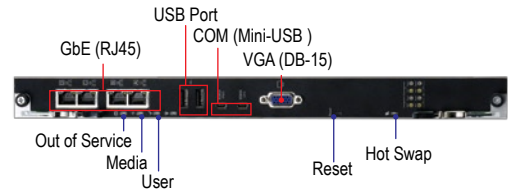
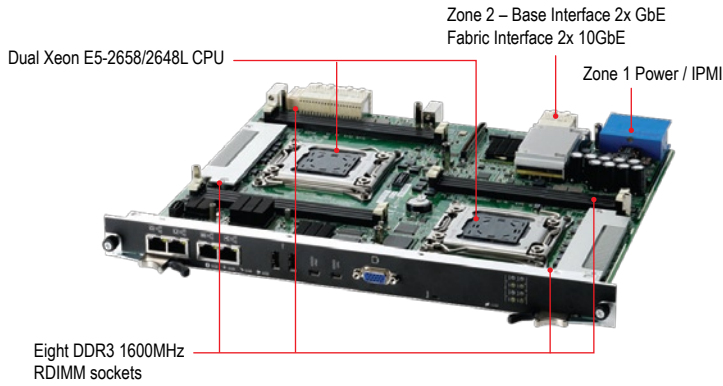
### Mechanical and Environmental

Form Factor	PICMG 3.0 R3.0 AdvancedTCA
Dimension	322.25mm x 280mm x 6HP (L x W x H)
Weight	3.85KG
Operating Temp.	0°C to 55°C
Storage Temp.	-40°C to 70°C
Humidity	5% to 95%, non-condensing
Shock	20G peak-to-peak, 11ms duration, non-operating
Vibration	Non-operating: 1.88Grms, 5-500Hz each axis Operating: 0.5Grms, 5-500Hz each axis
Power Consumption	Max. 300W with dual Intel® E5-2658 CPU/250W with dual Intel® E5-2648L CPU
Certification	FCC, CE, UL, NEBS Level 3 (design)

### Ordering Information

Model Number	Description/Configuration
<b>aTCA-6250/S2658</b>	Single 8-core Intel® Xeon® E5-2658 2.1GHz 10GbE processor blade
<b>aTCA-6250/S2658/M8G</b>	Single 8-core Intel® Xeon® E5-2658 2.1GHz 10GbE processor blade, DDR3-1600 VLP RDIMM 8GB x1
<b>aTCA-6250/D2658</b>	Dual 8-core Intel® Xeon® E5-2658 2.1GHz 10GbE processor blade
<b>aTCA-6250/D2658/M32G</b>	Dual 8-core Intel® Xeon® E5-2658 2.1GHz 10GbE processor blade, DDR3-1600 VLP RDIMM 8GB x4
<b>aTCA-R6270</b>	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)

# Mechanical Layout



Front Panel I/O Interfaces ————

Front Panel LED Indicators and Reset ————

# Functional Diagram

