aTCA-9700

Dual Intel® Xeon® E5-2600 v2 Family 40 Gigabit Ethernet AdvancedTCA® Processor Blade

Features

- Two Intel® Xeon® processor E5-2600 v2 family (10C/20T)
- Eight memory sockets support VLP DDR3-1866 REG/ECC up to 128GB
- Intel® C604 PCH
- Quad 40GBASE-KR4 Fabric Interface Channels
- Dual Intel® Communications Chipset 8920 (optional)
- Intel® Hyper-Threading Technology
- Intel® QuickPath Interconnect

AdvancedTCA®



Specifications

CPU / Chipset / Memory

CPU	10-Core Intel® Xeon® E5-2658/2680 v2
Chipset	Intel® C604 PCH
Memory	Eight DDR3-1866 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, PCIe x1, up to 1920 x 1440 resolution
Ethernet	Dual 10/100/1000BASE-T Base Interface channels
	Quad 40GBASE-KR4 Fabric Interface channels
	Dual front panel 10/1001000BASE-T egress ports
Storage	On-board bootable 16G SATA flash (up to 128G)
USB	Two USB 2.0 ports on front panel
Front Panel I/O	VGA, USB1/2, LAN1/2, COM (mini-USB) 1/2

PICMG Standard

AdvancedTCA	PICMG 3.0 R3.0
	PICMG 3.1 Ethernet Over PICMG 3.0, Option 9-KR

Other Features

Packet Processing Acceleration	Dual Intel® Communications Chipset 8920 (optional)
Operating Systems	Windows Server 2008 R2, Red Hat Enterprise Linux 6, Intel® DPDK supported

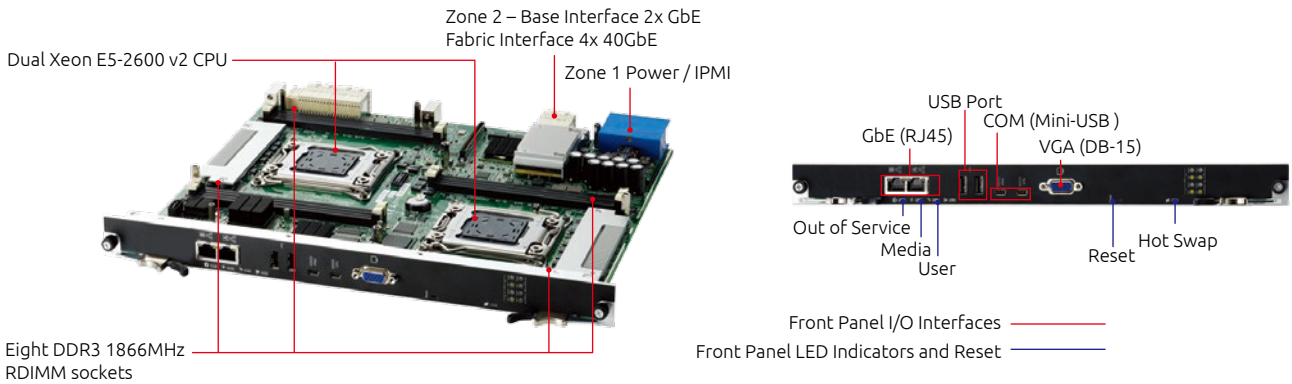
Mechanical and Environmental

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 to +55˚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
	Operating: 0.5Grms, 5-500Hz each axis
Power Consumption	300W with E5-2658 v2 (95W), 340W with E5-2680 v2 (115W)
Certification	FCC, CE, UL, NEBS Level 3 (design)

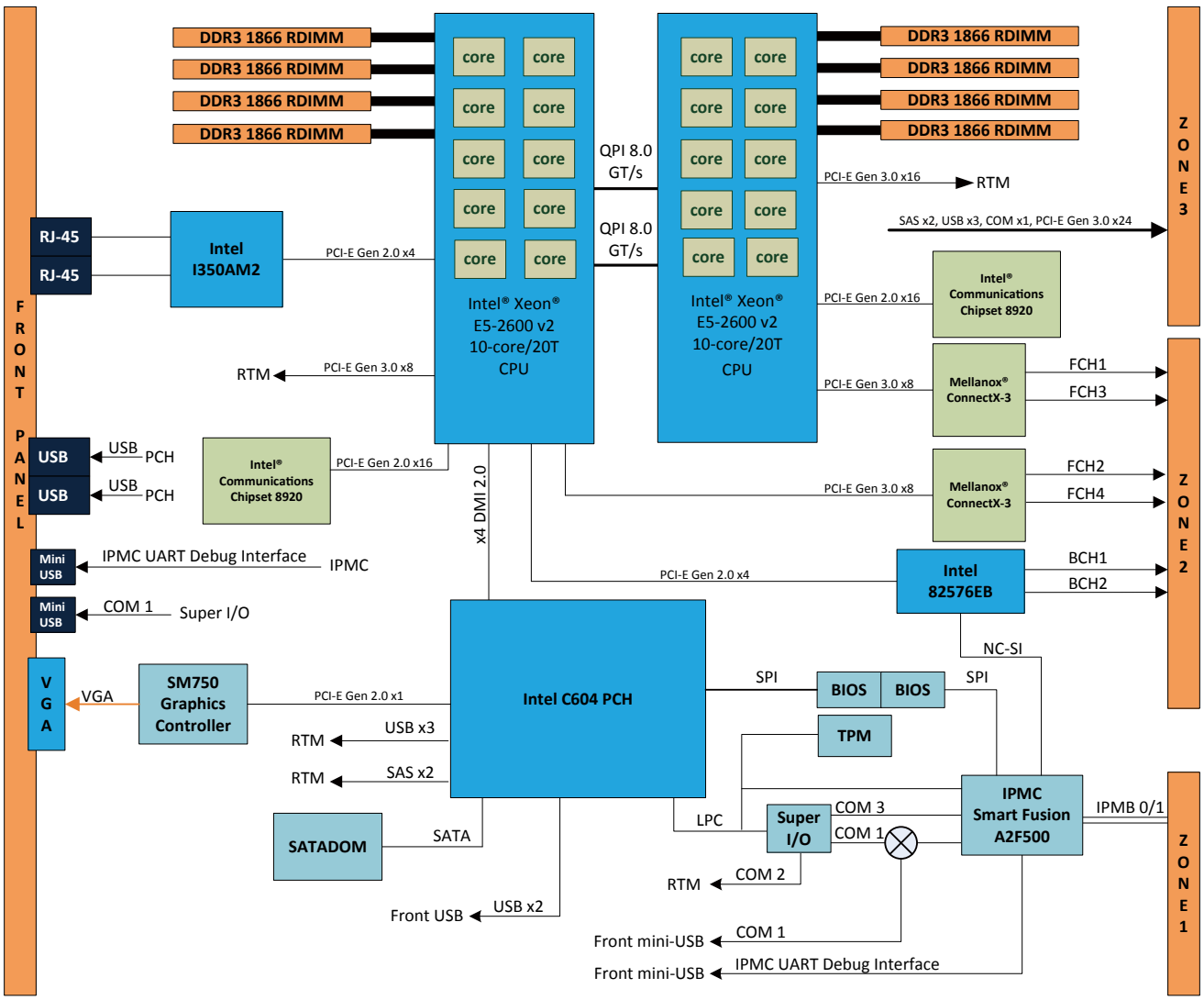
Ordering Information

Model Number	Description/Configuration
aTCA-9700/DIPoM	Dual 10-core Intel® Xeon® E5-2600 v2 series 40GbE processor blade with dual Intel® Communications Chipset 8920
aTCA-9700/D2658v2/M64G/DIPoM	Single 10-core Intel® Xeon® E5-2658 v2 2.4GHz 40GbE processor blade, DDR3-1866 VLP RDIMM 8GB x8 with dual Intel® Communications Chipset 8920
aTCA-H8314DSAA	13U 14 slot aTCA Chassis, 40G Dual Star backplane, 1 FRU Card, PEM x2, ShMC x2
aTCA-H8314FMAA	13U 14 slot aTCA Chassis, 40G Full MeshFabric backplane, 1 FRU Card, PEM x2, ShMC x2

Mechanical Layout



Functional Diagram



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