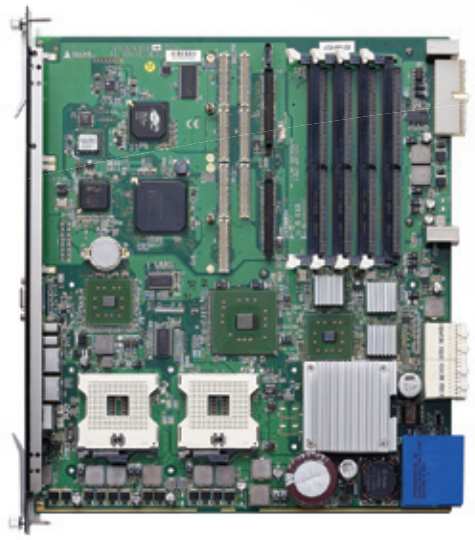
aTCA-6890

Dual Intel® Low Voltage Xeon® AdvancedTCA® Processor Blade



Features

- Dual Intel® LV Xeon® FSB 800, Hyper-Threading processors
- Intel® EM64T 64-bit Extended Memory Technology
- Dual Channel DDR2-400 REG/ECC with16GB maximum capacity
- Intel® E7520/6300ESB/6700PXH chipset
- Dual 64-bit 33/66/100/133MHz PCI/PCI-X PMC with PIM
- Four 1000BASE-BX GbE Fabric interface channels

Specifications

CPU / Chipset / RAM

CPU & FSB	Dual Intel® Low Voltage Xeon® 2.8GHz, FSB 800 MHz, 1MB L2 Cache (FCmPGA4)
	Dual Intel® Xeon 3.2 GHz, FSB 800 MHz, 1MB L2 Cache (FCmPGA4)
Chipset	Intel® E7520 MCH, 6300ESB ICH, 6700PXH Bridge
RAM	Four DDR2-400 REG/ECC 240-pin DIMM sockets, up to 16 GB

BIOS

Chip	Award BIOS with 4Mb flash memory
Features	Intel® PXE pre-boot
	Remote Console

I/O Interfaces

Graphics	ATI RageXL with 8MB VRAM, up to QXGA 2048 x 1536 resolution
PMC	PMC1: PCI/PCI-X 64-bit 66/100/133MHz capable with PIM
	PMC2: PCI/PCI-X 64-bit 66/100/133MHz capable
Ethernet	Intel® 82546EB (GB) PCI-X dual port Gigabit Ethernet controllers
	Dual 10/100/1000BASE-T Base interface channels
	Quad 1000BASE-BX Fabric interface channels
	Dual 10/100/1000BASE-T front panel access
Storage	Dual ATA-33/66/100 channels
	On-board DMA-enabled CompactFlash socket
	On-board 2.5" ATA/SATA HDD kits
USB	Dual USB 2.0 ports
Front Panel I/O	PMC1/2, VGA, USB1/2, LAN1/2, COM1

PICMG Standard

AdvancedTCA	PICMG® 3.0 R2.0 ECN001
	PICMG® 3.1 Ethernet/Fibre Channel Over PICMG® 3.0 R1.0 , Option1/2

Other features

Operating System	Windows® XP/2000 Professional, Windows® Server 2003, Fedora™ Core 2, Red Hat Enterprise Linux® 3 WS/AS update 3

Mechanical and Environmental

Form Factor	PICMG® 3.0 R2.0 ECN001 AdvancedTCA®
Dimensions	322.25mm x 280mm x 6HP (L x W x H)
Weight	3.6 kg / 8 lbs
Operating Temp.	0˚C to 45˚C
Storage Temp.	-20˚C to 80˚C
Humidity	5% to 95%, non-condensed
Shock	15G 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	aTCA-6890A/Dual LV-Xeon 2.8G/4GB: 175W
	aTCA-6890B/Dual Xeon 3.2G/4GB: 280W
Certifications	FCC, CE, CUL, NEBS Level 3 (design)

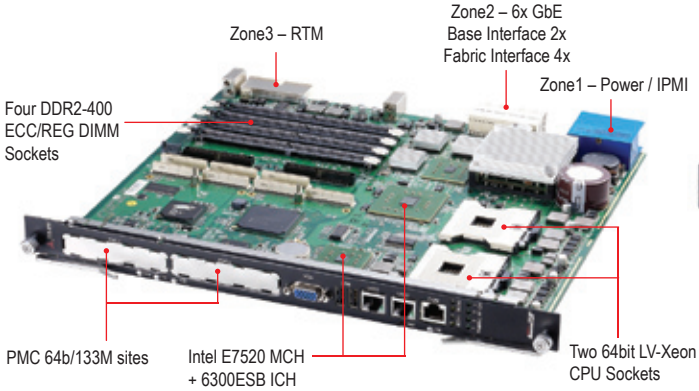
Ordering Information

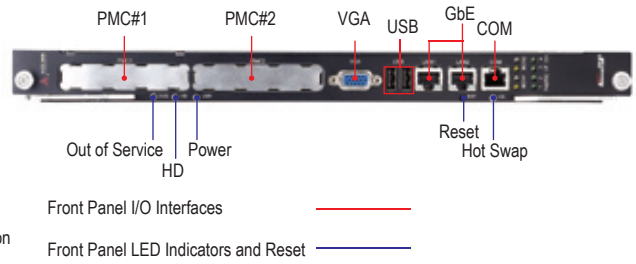
Modules

Model Number	Description/Configuration
aTCA-6890/DX28	Dual 2.8GHz LV-Xeon® AdvancedTCA® CPU Blade
aTCA-6890/DX28/M2G	Dual 2.8GHz LV-Xeon® AdvancedTCA® CPU Blade with DDR2-400 1GB RDIMM x2
aTCA-6890/DX28/M2G/H100G	Dual 2.8GHz LV-Xeon® AdvancedTCA® CPU Blade with DDR2-400 1GB RDIMM x2 and 100GB SATA HDD

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Mechanical Layout





Functional Diagram

