aTCA-6891

Dual-64-bit Intel® LV Xeon® Dual-10GbE Links AdvancedTCA® Processor Blade



The aTCA-6891 features dual-10Gigabit Ethernet (10 GbE) links, powered by Intel® 82598 PCI-E® 10 Gigabit Ethernet controller, routed to backplane Zone 2 connector to support PICMG® 3.1 option 1/9 connectivity. The 10GbE ports, also known as XAUI, support 10GBASE-KX4 and 1000BASE-KX as in IEEE 802.3ap. Therefore the aTCA-6891 is the key element to form the 10 GbE ATCA system with 10 GbE switch blade to provide a complete 10 GbE interconnect solution to the industry.

The dual-Intel® 64-bit LV-Xeon® processors and the up to 16 GB dual-channel PC3200 DDR2 REG/ECC memory provide aTCA-6891 unlimited computing power to accomplish any critical mission.

Various I/O features, includes VGA output, USB v2.0 ports, and serial console are available for front access. A PCI™/PCI-X™ 64-bit/133 MHz capable PMC site is designed for further function expansion. A SATA RAID 0/1 enabled RTM interface is also reserved.

Features

- ***Dual-10Gigabit Ethernet (XAUI) Links***
- ***800 MHz FSB, 1 MB L2 Cache, Hyper-Threading Processors***
- ***Intel® EM64T 64-bit Extended Memory Technology***
- ***Dual-DDR2-400 REG/ECC Channels with 16 GB Maximum Capacity***
- ***Dual-64-bit 33/66/100/133 MHz PCI™/PCI-X™ PMC Sites***
- ***Dual-10GBASE-KX4/1000BASE-BX Fabric Interface Channels***
- ***PICMG® 3.1 Option 1/9 Compliant***
- ***RAID 0/1 Enabled RTM***

Ordering Information

aTCA-6891	Dual 64-bit LV-Xeon® Dual-10GbE AdvancedTCA® Processor Blade
aTCA-6891/DX28/M2G	Dual 64-bit LV-Xeon® 2.8 GHz, Dual-10GbE AdvancedTCA® Processor Blade with 2 GB PC3200 DDR2 REG/ECC DIMM

Specifications

CPU / Chipset / RAM

CPU	Dual-Intel® 64-bit LV-Xeon® 2.8 GHz Processors
Chipset	Intel® E7520 MCH, 6300ESB ICH, 6700PXH Bridge
Memory	Four DDR2-400 REG/ECC 240-pin DIMM slots, up to 16 GB capacity

BIOS

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

I/O Interfaces

Graphics	ATI ES1000, up to SXGA 1280 x 1024 resolution
PMC	Dual-PCI™/PCI-X™ 64-bit 66/100/133 MHz sites
Data Transport	Dual-10/100/1000BASE-T Base Interface channels
	Dual-10GBASE-KX4/1000BASE-BX Fabric Interface channels
	Dual-10/100/1000BASE-T GbE Egress ports
Storage	Dual-ATA-66/100 channels
	On-board DMA-enabled CompactFlash® socket
	On-board 2.5" ATA HDD kits
USB	Dual-USB v2.0 ports
Front Panel I/Os	PMC1/2, VGA, USB1/2, LAN1/2, COM

PICMG® Standard

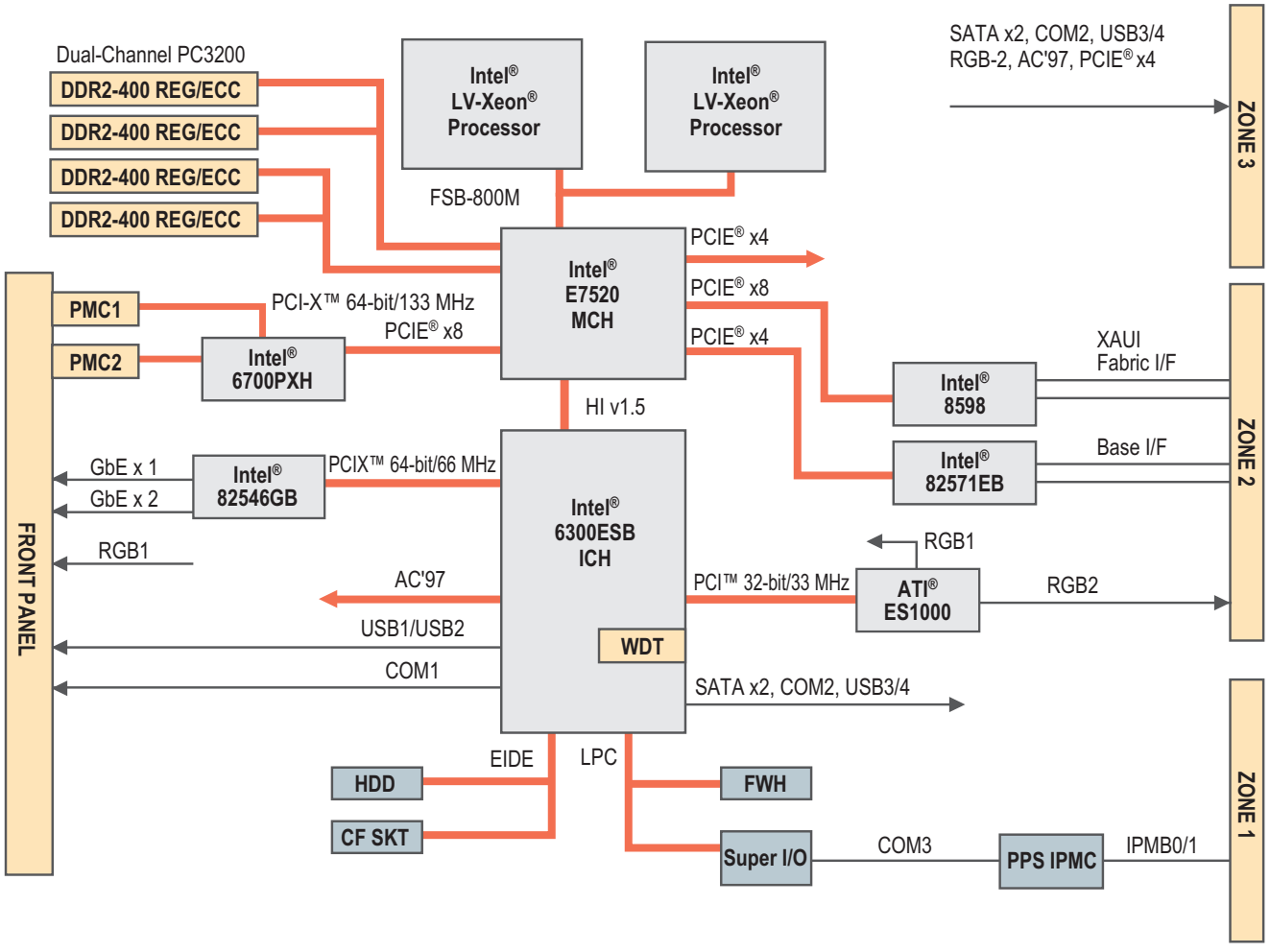
Standards	PICMG® 3.0 R2.0 ECN001
	PICMG® 3.1 Ethernet/Fiber Channel Over PICMG® 3.0 R1.0, Option1/9

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

aTCA-6891

Dual-64-bit Intel® LV Xeon® Dual-10GbE Links AdvancedTCA® Processor Blade

Block Diagram



LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000