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DATASHEET

FEATURE SUMMARY

- Single slot AdvancedTCA PICMG3.0 compliant module
- Dual 2.8GHz LV 64-bit Intel Xeon processors E7520 / 6300ESB / 6700PXH Chipset
- 1MB (L2) cache (per processor)
- Support for up to 16GB DDR2-400 ECC registered SDRAM via 4 DIMM sockets
- Backplane Connections
- Dual Gigabit Ethernet (Base Interface
- Quad Gigabit Ethernet (Fabric Interface) -Based on option 2 of PICMG 3.1
- Dual IPMB connections (Zone 1)
- Redundant power connections(Zone 1)
- Storage:
- Optional SFF 2.5” Serial Attached SCSI (SAS) or SATA hard disk
- Two IDE (ATA) on board flash disks (128 Mbytes each)
- Front Panel I/O (4) 10/100/1000BaseT
- (2) USB 2.0 ports
- Serial port (RJ-45)
- PMC slot (64-bit, 66MHz)
- Intelligent Platform Management Controller (IPMC)
- Support for major operating systems including CG Linux (WR PNE LE 2.x, MV 3.1 & 4.x)

PROMENTUM ATCA-4200

ADVANCEDTCA COMPUTE PROCESSING MODULE

PRODUCT DESCRIPTION

The ATCA-4200 is a high performance single slot AdvancedTCA compute module. It delivers exceptional performance for Intel Architecture (IA) based compute intensive applications in IMS (CSCF, Application and Media Servers), IPTV and other network elements such as RNC/BSC and Media Gateways. The ATCA-4200 features Intel Extended Memory 64 Technology on dual 2.8GHz Low Voltage Intel Xeon processors. Quad Gigabit Ethernet ports for high-bandwidth application connectivity. Implementation is based on option 2 of the PICMG 3.1 Specification. Plus, a single PMC mezzanine site for added flexibility for various I/O interfaces and storage functionality. The NEBS compliant design with I/O flexibility makes it ideal for carrier grade uses in compute and I/O configurations.

APPLICATIONS & REQUIREMENTS

The next generation communication infrastructure is a packet oriented one in which applications or services such as IMS, IPTV, Radio Network Controllers, VoIP Media Gateways, VPN, speech processing and a multitude of media servers will co-exist in a seamless, unified network. Other applications include traffic management/shaping blades, switching and advanced call center applications. The subscriber and traffic growths warrant highest amount of processing densities per slot in order to meet the $/slot and the MIPS/slot growth targets for these infrastructure elements. Additionally, the designers are seeking flexibility in design to use it as a common processing module across multiple applications to gain economies of scale and re-use in their architecture. Such a requirement demands I/O capability through PMCs, and flexibility in base and fabric connectivity.

PROCESSING DENSITY

The ATCA-4200 supports dual 64-bit low voltage Intel Xeon processors at 2.8GHz with 1MB of L2 Cache and an 800 MHz System Bus. This high performance processor is based on Intel NetBurstTM microarchitecture and Hyper-Threading Technology. It is binarycompatible with previous Intel Architecture (IA-32) processors. The ATCA-4200 is fully compliant with PICMG 3.0, 3.1 (option 2) for use with Ethernet base interface and fabric interface systems, as well SAS storage systems. It utilizes the Intel E7520 chipset with up to 16GB of DDR2-400 SDRAM with ECC.

CONFIGURATION FLEXIBILITY

The ATCA-4200 and its configuration capability make it versatile for multitude of applications. The configuration capabilities include:

- Number of processors – one or two dualprocessors
- Memory configurations for DRAM and Flash – Up to 16 GB through 4 DIMM sockets
- PICMG 3.1 Fabric configurations supporting 1 or 2 GbE connections
- PMC site for I/O flexibility
- Storage configurations – Optional 2.5” SFF SAS or SATA hard drives

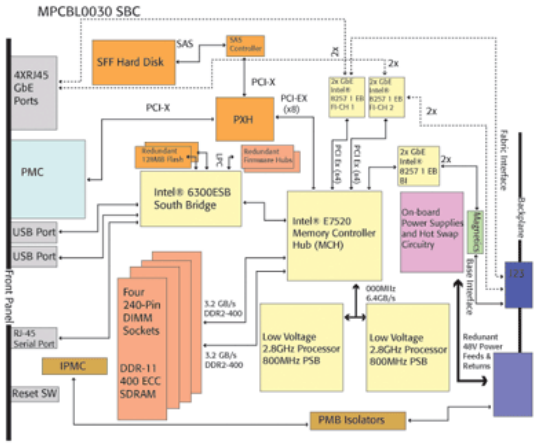
The ATCA-4200 can be configured for different applications through its options and the use of one PMC site, creating a specific application ready processing solution. Populating the PMC site with one of various PMC choices, such as SCSI, SVGA, Encryption Co-Processors, LAN and WAN I/O Adapters, and applicable software enables the ATCA-4200 to meet specific needs such as an IPSec Gateway.

SYSTEM MANAGEMENT, RELIABILITY AND HIGH AVAILABILITY

The ATCA-4200 is designed for High Availability (HA) solutions providing 99.999% of up time, and is NEBS Level-3 and ETSI installations. An Intelligent Platform Management Controller (IPMC) provides system management functionality compliant with the IPMI specification. SOFTWARE SUPPORT The ATCA-4200 is compatible with Carrier Grade Linux. It supports both Wind River PNE LE 2.x and Monta Vista 3.1 & 4.x carrier grade Linux versions. Support for other Linux versions is available through RadiSys service options.

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MPCBL0030 SBC BLOCK DIAGRAM



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Promentum ATCA-4200 Specifications

Physical	Dimensions	8Ux6HPx280mm ATCA, single slot
	Compliance	PICMG 3.0, PICMG 3.1 (option 2)
Processor System	CPU	1 or 2 2.8Ghz Intel Xeon LV Processors (Nocona)
	Cache	1MB L2 (per processor)
	Chipset	Intel E7520 with 6300ESB
	FSB	800MHz
Memory	Technology	Registered DDR2 400, with ECC
	Capacity	Up to 16GB
	Sockets	Four 240-pin DIMM
Ethernet Base	Interface	4x 10/100/1000 BaseT
	Controller	Intel 82571EB
PMC Site	Site 1	64-bit, 66Mhz
Hard Drive Interface	Interface	SFF SAS Fujitsu Model MAV2073RC (73.5GB) or SATA Fujitsu Model MHT2060BS(60GB)
	Controller	Integrated
	Connector	On-board header
Front Panel I/O	USB	Two Type A connectors
	Serial	RJ-45
	Ethernet	RJ-45, 4x 10/100/1000 BaseT
	Reset	Recessed push button
Connectors, Backplane	Power, IPMB	ATCA Zone 1, P10 connector
	Ethernet Base	ATCA Zone 2, J23 connector
	Ethernet Fabric	ATCA Zone 2 J23 connector
LEDs	-	Hot Swap (Blu), OOS (Red/Yel), Health (Tri), Base Ethernet Activity/Link (Grn), Disk Activity (Grn), User Prgmable (x2)
Power	-	200 W (maximum)
Environment	Ambient Temperature	0° – 55°C (operating), -40° – 70°C (non-operating)
	Relative Humidity (non-condensing)	5 – 90% (operating), 5 – 90% (non-operating)
Regulatory	Safety	EN60950, IEC/UL/CSA 60950-1
	EMC	CISPR22/EN55022 Class A, EN300386, FCC Rules CFR 47 Part 15B Class A, ICES-003 Class A, CISPR24/EN55024, EN300386
Warranty	-	Two years, parts only

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