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DATASHEET



Promentum ATCA-4310

ATCA 10-Gigabit Dual-Core Compute Processing Module

The ATCA-4310 is a high performance single slot AdvancedTCA compute module. It is ideal 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-4310 provides 10-Gigabit fabric connectivity to two dual-core processors, and built in flexibility with dual AMCs sites that can be utilized to support a multitude of application requirements. The NEBS compliant design with rear I/O capability also makes the product a great fit for carrier grade requirements.

FEATURE SUMMARY

- Most processing power of Pentium-M in a single slot. Reduces $/slot thus addressing maximum subscribers in a single slot
- Flexibility in configuration and design enables reconfiguration and improves re-use of development investment
- Powerful storage functionality built in to enable onboard SAS HDD AMCs with fully redundant at a module level
- Fibre channel support provides high performance storage option when used with a Switch and Control Module with Fibre Channel hub
- Carrier grade platforms using rear I/O connectivity

APPLICATIONS & REQUIREMENTS

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 SS7 signaling gateways, traffic management/shaping blades, switching and advanced call center applications. The subscriber and traffic growths associated with these services demand significant processing density per slot in order to meet the dollar per slot and the MIPS per slot growth targets placed upon these infrastructure elements. Additionally, designers are seeking flexibility to allow common processing modules to be used across multiple applications in order to gain economies of scale and architectural re-use. Such a requirement demands I/O capability through AMCs with clocking support, front and rear I/O, and bandwidth scalability.

PROCESSING DENSITY

With dual, dual-core processors and two AMCs for co-processing, I/O and storage, the ATCA-4310 provides exceptional processing density in a thermally efficient design, which equates to great performance per watt in a single slot solution. The ATCA-4310 is fully compliant with PICMG 3.0 and PICMG 3.1 for use with Ethernet base interface and fabric interface systems. The module utilizes two Dual-Core Intel Xeon LV/ULV processors along with the Intel E7520 chipset, and provides support for up to 16GB of DDR2-400 ECC SDRAM. Configuration flexibility is supported with two mid-size AMC sites, or one double-wide mid-size AMC site, which allows a variety of AMC module options, such as co-processors, disk, LAN or WAN adapters. The module also optionally supports a local and remote SAS interface enabling SAS disk support via an AMC disk module.

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CONFIGURATION FLEXIBILITY

The ATCA-4310 and its configuration capability make it a versatile option for a multitude of applications. The configuration capabilities include:

- Number of processors: one or two dual-core processors
- Memory configurations for DRAM: Up to 16 GB via 4 DIMM sockets
- PICMG 3.1 Fabric configurations supporting options 1 and 9
- AMC configurations including fabric connectivity and storage
- Network Timing Subsystem for clocking support for WAN I/O AMCs
- Storage configurations: Secure Digital (SDHC) socket for optional flash card, redundant on-board 256MB flash modules, SAS on board and off board with rear I/O connectivity

The functionality of the ATCA-4310 can be configured through the use of two AMC sites, eliminating the need for additional slots. Optional AMC modules include SAS and SATA storage, Co-Processors, LAN and WAN I/O adapters.

For applications requiring local storage, the ATCA-4310 can accommodate an optional SAS or SATA based AMC or optional secure digital (SD) flash card. The SAS connectivity is designed to make use of Rear Transition Module to provide redundancy through cross cabling to another compute module in an adjacent slot. Such cross cabling enables redundancy in storage through dual-hosted disk drives.

REAR TRANSITION MODULE

The ATCA-4310 is designed for carrier grade applications demanding rear I/O connectivity. It includes an independently hot swappable RTM for rear I/O connectivity. The RTM includes standard LED support and connectors for RS-232, SAS and alarm I/O.

SYSTEM MANAGEMENT, RELIABILITY AND HIGH AVAILABILITY

The ATCA-4310 is designed for High Availability (HA) applications providing 99.999% up time. An Intelligent Platform Management Controller (IPMC) provides system management functionality compliant with the IPMI specification, and includes features such as standard e-keying, remote upgrade capability, IPMI-over-LAN, Serial-over-LAN, and message bridging and messaging support.

SOFTWARE SUPPORT

The ATCA-4310 supports RedHat Linux, Wind River PNE LE 1.x, and MontaVista Carrier Grade Linux 4.x. Support for other Linux versions is available through RadiSys service options.

Promentum ATCA-4310 Specifications

FEATURE	FUNCTION	DESCRIPTION
PHYSICAL	Dimensions	8Ux6HPx280mm ATCA, single slot
	Compliance	PICMG 3.0, PICMG 3.1 (option 1 and 9),

		AMC.0, AMC.1, AMC.2, AMC.3
PROCESSOR SYSTEM	CPU	x2 2.0GhzDual-Core Intel Xeon LV Processors (Sossaman)
	Cache	Integrated 2MB L2
	Chipset	Intel E7520 with 6300ESB
	FSB	667MHz
MEMORY	Technology	Registered DDR2-400, with ECC
	Capacity	Up to 16GB
	Sockets	Four 240-pin DIMM
ETHERNET BASE	Interface	Dual 10/100/1000BaseBX
	Controller	Intel 82571EB
ETHERNET FABRIC	Fabric (PICMG 3.1, option 1, 9)	10GBase-BX4, 1000Base-BX
	Controller	Intel 82598EB
AMC SITES	Site 1	Single Mid-size, AMC.0 compliant. AMC.1 Type 4 x4 PCI Express to E7520, AMC.3 SAS or SATA to SAS controller
	Site 2	Single Mid-size, AMC.0 compliant. AMC.1 Type 4 x4 PCI Express to E7520, AMC.2 Type E2 dual GbE to CPU, AMC.3 SATA to 6300ESB SATA controller
HARD DRIVE INTERFACE	Interface	SAS and SATA
	Controller	Integrated
	Connector	Per AMC.3
FRONT PANEL I/O	USB	One Type A connector
	Serial	RJ-45, RS-232

	Ethernet	RJ-45, 10/100/1000BaseT
	Reset	Recessed push button
RTM I/O (OPTIONAL)	Connectors	RS-232 (RJ-45), SAS and Alarm I/O
	Hot Swap	Supported
	FRU ID	Independent FRU ID
	LEDs	Hot Swap (Blu), Power Good, and Fault
CONNECTORS, BACKPLANE	Power, IPMB	ATCA Zone 1, P10 connector
	Ethernet Base Fabric	ATCA Zone 2, J23 connector
	Ethernet Fabric	ATCA Zone 2 J23 connector
	Synchronization Clock	ATCA Zone 2, J20 connector
	Update Channel	ATCA Zone 2, J20 connector
	RTM	ATCA Zone 3, J30 connector
LEDS	-	Hot Swap (Blu), OOS (Red/Yel), Power Good (Grn), Blade Status (Tri)
POWER	-	200 W (maximum)
ENVIRONMENT	Ambient Temperature	+5° to +45°C (operating) -40° to +70°C (non-operating)
	Relative Humidity (non-condensing)	5% to 85% (operating) 5% to 90% (non-operating)
REGULATORY	Safety	UL/EN/IEC 60950-1, CSA 22.2
	EMC	FCC Part 15, Class B, EN 55022: 2006, Class B
		EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8
WARRANTY	-	Two years, parts only

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