

SPECIFICATIONS

FEATURE	FUNCTION	DESCRIPTION
Physical	Dimensions	8U x 6HP x 280mm ATCA, single slot
	Compliance	PICMG 3.0, PICMG 3.1
Processor System	CPU	Intel® Xeon™ 2.0 GHz
	Cache	Integrated 512 Kbytes L2
	Chipset	Intel E7501 with ICH3
	FSB	400MHz
Memory	Technology	3.3V registered DDR266, with ECC
	Capacity	Up to 4GB maximum
	Sockets	Four 184-pin DIMM
Ethernet	Interface	Dual 10/100/1000BaseTX
	Controller	Intel® 82546EB
Fibre Channel	Interface	Dual 2.125 Gbps (PICMG 3.1 Option 7 compliant)
	Controller	QLogic ISP2312
PMC Site	Site 1	64-bit 33MHz or 66MHz
Hard Drive Interface	Interface	ATA-100 IDE
	Controller	Integrated
	Connector	On-board header
Front Panel I/O	USB	One Type A connector
	Reset	Recessed push button
Connectors, Backplane	Power, IPMB	ATCA Zone 1, P10 connector
	Ethernet Base Interface	ATCA Zone 2, J23 connector
	Fibre Channel Fabric	ATCA Zone 2, J23 connector (PICMG 3.1 Option 7 compliant)
LEDs	-	Hot Swap (Blu), OOS (Red/Yel), Power Good (Gm), Blade Status (Tri)
Power	-	150W to 175W 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	UL/EN/IEC 60950-1, CSA 22.2
	EMC	FCC Part 15, Class B, EN 55022: 1998, Class A
		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	-	One year, parts only

ORDERING INFORMATION

Call for pricing and availability. Refer to the order codes below.

DESCRIPTION:

ATCA-4000 Dual Intel® Xeon™ Compute Processing Module:

Dual Xeon CPU with 2GB memory, 30 GB HDD and Fibre Channel
ORDER CODE: A4K-CPU-0P00-05

Dual Xeon CPU with 2 GB memory, no HDD and Fibre Channel
ORDER CODE: A4K-CPU-0P00-06

Dual Xeon CPU with 2 GB memory, with HDD and no Fibre Channel
ORDER CODE: A4K-CPU-0P00-07

Dual Xeon CPU with no memory, no HDD and Fibre Channel
ORDER CODE: A4K-CPU-FC

Dual Xeon CPU no memory, no HDD and no Fibre Channel
ORDER CODE: A4K-CPU-NFC

CONFIGURATION KITS:

ORDER CODE: A4K-MEM-1G
 (1GB MEMORY – 2EA 512 MODULES)

ORDER CODE: A4K-MEM-2G
 (2GB MEMORY – 1EA 1GB MODULES)

ORDER CODE: A4K-MEM-4G
 (4GB MEMORY – 2EA 2GB MODULES)

ORDER CODE: A4K-HDD (IDE HARD DRIVE)

ORDER CODE: A4K-SFP (FIBRE CHANNEL SFP MODULES – 2EA)

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PROMENTUM™ ATCA-4000 DATA SHEET

COMPUTE PROCESSING MODULE

FEATURE SUMMARY

- Single slot ATCA PICMG 3.0/3.1 compliant module
- Single or dual Low Voltage Intel® Xeon™ processors with Intel NetBurst® microarchitecture and a high bandwidth front-side bus
- 2.0 GHz with 400MHz system bus
- E7501 Chipset
- 512 Kbytes L2 cache
- Support for up to 4GB DDR-266 ECC registered SDRAM via 4 angled DIMM sockets
- One 64-bit, 33/66MHz PMC site
- Dual Gigabit connection to backplane with optional Dual PICMG 3.1 compliant Fibre Channel for access to high-speed storage subsystems
- Optional on-board 2.5" ATA hard disk for local storage
- Intelligent Platform Management Controller (IPMC)
- Three watchdog timers for higher availability and application integrity
- Front panel I/O
- USB port, serial port (RJ-45), and PMC slot (64-bit, 33/66MHz)
- LEDs for status, health, hard drive activity, and Ethernet/Fibre Channel connections
- Support for carrier grade Linux

AdvancedTCA® has emerged as the open standard for carrier grade applications. With mounting competitive pressures, OEMs are seeking off-the-shelf solutions to accelerate time-to-market. Next generation applications demand powerful general purpose processing. Intel® architecture with its widespread ecosystem of software and support make it a viable server module for the OEMs.

PRODUCT DESCRIPTION

The Promentum™ ATCA-4000 is a high performance single slot AdvancedTCA module for Intel architecture server applications. It is fully compliant with PICMG 3.0 and PICMG 3.1 for use with Ethernet base interface and Fibre Channel storage systems.

The ATCA-4000 utilizes the Intel Xeon Processor and the Intel E7501 chipset with up to 4GB of DDR-266 SDRAM with ECC. It incorporates one PMC site for flexibility. For high-speed storage access, the module supports a dual star Fibre Channel interface compliant with the PICMG 3.1 Option 7 specification. The module also supports an optional on-board 2.5" ATA hard disk for local storage. The ATCA-4000 is validated for carrier grade Linux.

CONFIGURATION FLEXIBILITY

The ATCA-4000 can be configured for different applications through its options and the use of one PMC site, creating a specific processing solution targeted as an application-

specific module. Populating the PMC site with one of various PMC choices – SCSI, SVGA, Encryption Co-Processors, LAN and WAN I/O adapters – and appropriate software associated with the PMC, the ATCA-4000 can meet application specific needs such as IPSec Gateway or SS7 adapter. The module can also optionally configured to support Fibre Channel storage subsystem for database intensive applications such as HLR.

SYSTEM MANAGEMENT, RELIABILITY AND HIGH AVAILABILITY

The ATCA-4000 is designed for High Availability (HA) solutions providing 99.999% of up time, and is NEBS and ETSI compliant. An Intelligent Platform Management Controller (IPMC) provides system management functionality compliant with the IPMI and PICMG specifications.

APPLICATIONS

The next generation communication infrastructure will be a packet oriented one in which applications or services such as VoIP, VPN, speech processing and a multitude of media servers will co-exist in a seamless, unified network. Additional applications include WAP servers, SS7 signaling gateways, traffic management/shaping blades, switching and advanced call center applications.



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