MOTOROLA

ATCA-715 and -717

AdvancedTCA Computing Blades

KEY FEATURES

1.8 GHz Intel Pentium M processor and Carrier Grade Linux support

Intel E7501 server-class chipset supporting 4.3GB/s memory bandwidth

Up to 4GB ECC-protected DDR266 SDRAM

1MB user and boot flash memory, and CompactFlash support

AdvancedTCA management controller (IPMI version 1.5) communicates with shelf management controllers

Redundant connection to a PICMG 3.0 backplane base interface

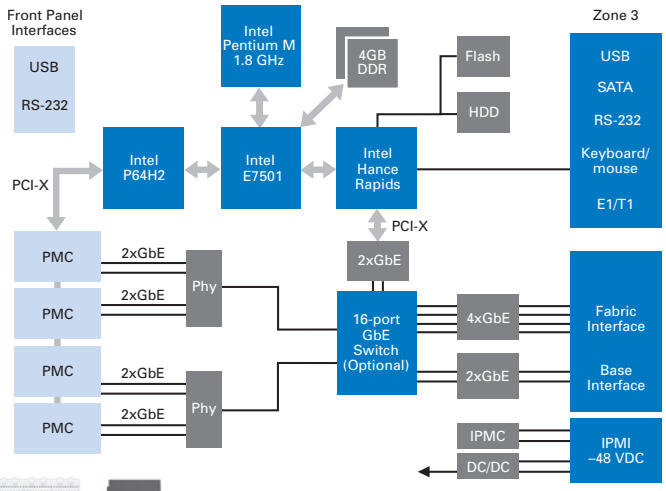
Optional redundant connection to a PICMG 3.1 backplane fabric interface

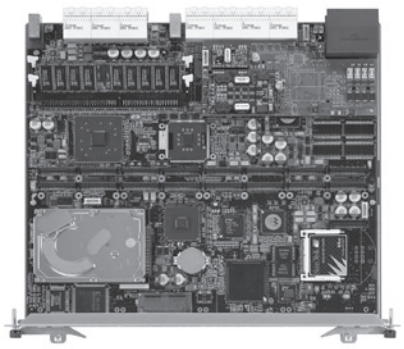
Support for four PMC modules with telecom clocking synchronization

Optional with 16-port managed Gigabit Ethernet switch for base and fabric interface

Designed for PICMG® 3.0 and 3.1 AdvancedTCA® compliant systems, the Motorola ATCA-715 computing blade features the 1.8 GHz Intel® Pentium® M processor with a high MIPS/watt capability in an 8U form factor. It also includes an Intel® E7501 chipset with a memory bandwidth of 4.3GB/s, accommodates four PMC modules with telecom clocking synchronization for additional processing power and/or I/O, and supports 4GB ECC-protected DDR266 SDRAM.

The ATCA-715 blade can be optionally configured as the ATCA-717, which features a managed, multi-layered 16-port Gigabit Ethernet switch that delivers the flexibility required for routing Gigabit Ethernet interfaces between the base board control processor, the PMC-based processing or I/O nodes, and the PICMG base and fabric interface.





AdvancedTCA®

The ATCA-715 computing blade delivers robust, server-class performance for control and data plane processing, and for supporting high-end communications. It is ideal for next-generation networks, as well as for telecommunications applications that require an integrated solution that delivers optimum performance and system reliability. These include wireless and wireline infrastructure solutions designed for RNC, SGSN, or Telco and central office servers.

HARDWARE SPECIFICATIONS

PROCESSOR

1.8 GHz Intel Pentium M Processor

512KB L2 on-chip cache

400 MHz frontside bus

Intel® E7501 system controller

MEMORY

Up to 4.0GB ECC-protected SDRAM

1.0MB BIOS and application flash

Support for CompactFlash card

COUNTERS/TIMERS

Real-time clock

Programmable watchdog timer

PCI MEZZANINE CARD

Four PMC sites with 100 MHz PCI-X interface and dual Gigabit Ethernet interface

BASE AND FABRIC INTERFACES

Dual star configuration

PICMG 3.0 base interface compliant, Gigabit Ethernet (1.0Gbps)

PICMG 3.1, Option 1 fabric interface compliant, Gigabit Ethernet (2.0Gbps)

EXTERNAL INTERFACES

Front Panel

– USB 2.0, mini USB Type AB (2)

– Serial, RJ-45 (2)

– Keyboard/mouse, PS2 (1)

Via Optional RTM

– USB 2.0, Type A (2); Serial, RJ-45 (2); SATA (2)

– From PTMC: E1/T1, RJ-45 (16); Serial, RJ-45 (2)

– Keyboard/mouse, PS2 (1)

STORAGE

On-board 2.5" HDD

POWER REQUIREMENTS

Dual-redundant –48V rails

Input range: 39.5 – 72 VDC

Typical power: 120 – 140W

BLADE SIZE

8U form factor, 280 mm X 322.5 mm, single slot

RELEVANT STANDARDS

PICMG 3.0 (form factor, IPMI, base interface, hot swap, RTM)

PICMG 3.1 (fabric interface)

SOFTWARE

OPERATING ENVIRONMENT

MontaVista CGE 3.1 is the recommended operating system and is offered separately

A Linux support package for MontaVista CGE 3.1 is available

RELEVANT STANDARDS

OSDL Carrier Grade Linux rev. 1.1

Service Availability™ Forum (SA Forum) Hardware Platform Interface (HPI) rev. 1.0

SOLUTION SERVICES

Motorola provides a portfolio of solution services optimized to meet your needs throughout the product lifecycle. Design services help speed time-to-market. Deployment services include global 24x7 technical support. Renewal services enable product longevity and technology refresh. And solution extras include enhanced warranty and repairs.

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