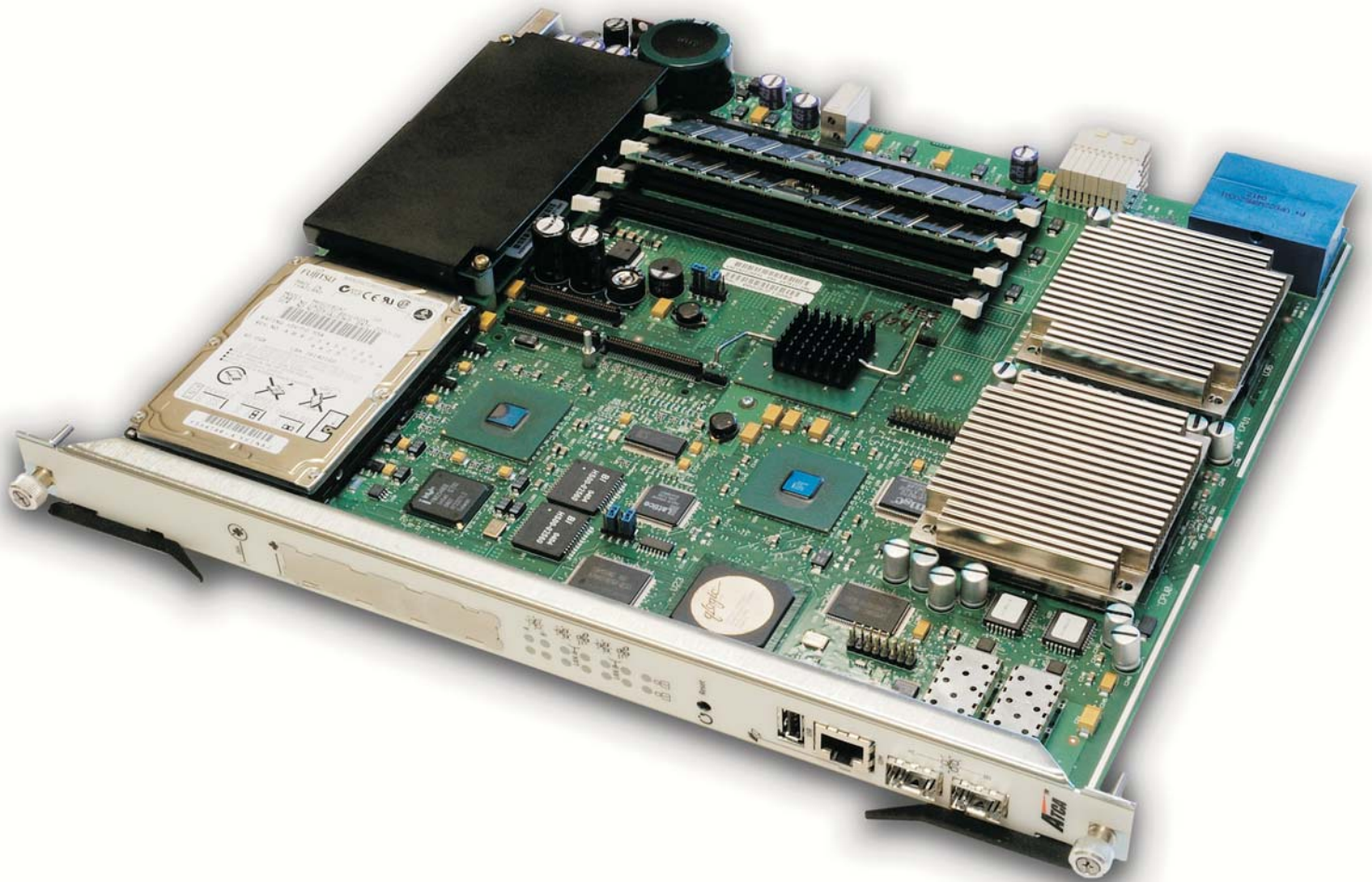


# AT8000

## ATCA Dual processor board



The Kontron AT8000 Single Board Computer, compliant with AdvancedTCA specifications, can achieve greater performance levels than have been previously supported on standards-based blade products. It is designed to interoperate with the entire family of Kontron's AdvancedTCA-compliant products, including the ATCA-compliant 12U Shelf, the XL8000 and with third party building blocks meeting the PICMG 3.0 specification.

- AdvancedTCA Processor Board
- Dual Intel Xeon 2.0 GHz
- Dual Gigabit Ethernet to the backplane
- Optional Dual Fibre Channel Interfaces
- PMC and onboard IDE hard drive support

# Specifications

## ... learn about the tremendous feature set

### Product Highlights

- Dual Low Voltage Intel® Xeon processors with Intel NetBurst® microarchitecture and a high-bandwidth front-side bus for exceptional performance
- 2.0 GHz with 400 MHz system bus provides outstanding value
- Integrated 512 Kbytes L2 Cache
- Intel® E7501 Chipset
- Support for 4-plus GBytes DDR-266 ECC registered SDRAM via four DIMM sockets
- Backplane connections for dual Gigabit Ethernet (and dual Fibre Channel on selected models) support today's high I/O requirements
- Allows the addition of a single PMC device, and supports 64-bit transfers at 33 or 66 MHz
- Optional dual Fibre Channel for access to high-speed storage subsystems
- Three watchdog timers for higher availability and application integrity
- Single-slot, hot-swappable
- Intelligent Platform Management Controller (IPMC) monitors, controls, and performs diagnostic functions using dual Intelligent Platform Management Bus (IPMB) connections (with hardware isolation) for improved system reliability
- Embedded BIOS, loaded in on-board flash memory, is user-configurable to load an operating system from a variety of boot devices
- Support Linux MontaVista CGE 3.0 and 3.1, Red Hat Linux Enterprise AS 3.0
- Designed to be compliant with the following specifications:
  - AdvancedTCA Core Specification, PICMG 3.0
  - NEBS Level-3 and ETSI Installations
  - IPMI v1.5

### Supported Voltage

- -39.5 to -72 for boards

### Maximum Power Draw

- 150W to 175W

### Temperature (ambient)

Operating: 5°C to 55°C  
Storage: -40°C to 70°C

### Airflow

Operating: 300 linear feet per minute (LFM) minimum.  
(Additional thermal information is available)

### Humidity

Operating: 10 to 85% non-condensing  
Storage: 10 to 95% non-condensing

### Vibration

Operating: 0.5g acceleration over 5 to 500 Hz sine wave (P-P),  
0.5 oct/min sine sweep

### Shock

Unpackaged: 50 g

### Front Panel I/O

- USB port, serial port (RJ-45), and PMC slot (32/64-bit, 33/66MHz)
- Dual Small Form-factor Pluggable (SFP) connections on Fibre Channel boards (connect to copper or fiber cables)
- LEDs for status, health, hard drive activity, and Ethernet/Fibre Channel connections

### Backplane Connections

- Dual Gigabit Ethernet (Base Interface)
- Optional Dual Fibre Channel (Fabric Interface)
- Dual IPMB connections (Zone 1)
- Redundant power connections (Zone 1)



XL8000 12 U chassis



AT8900 Ethernet switch



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