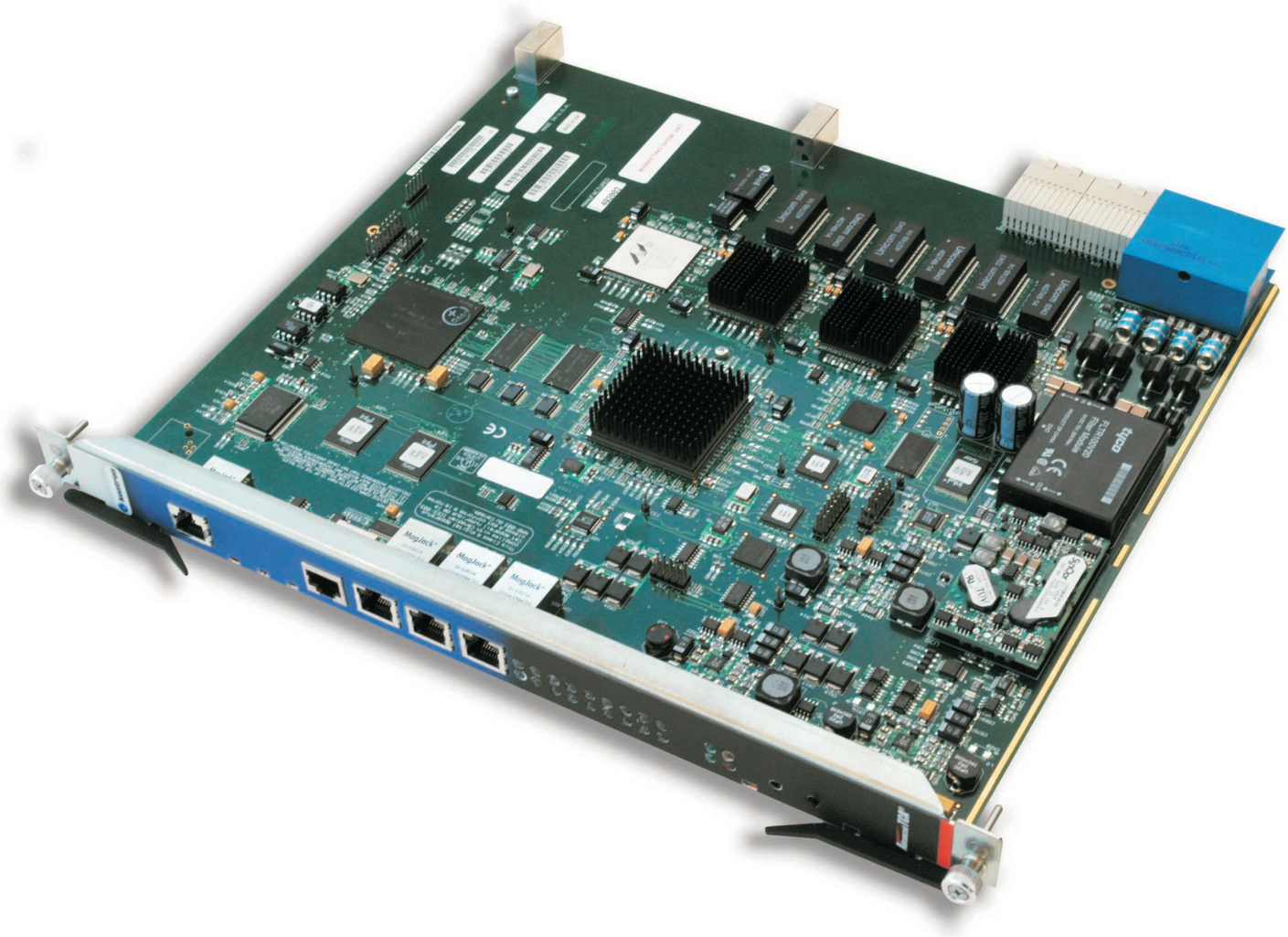
AT8900

AdvancedTCA Base Fabric Switch



- 16 ports Gigabit Ethernet Base Fabric Switch
  - 12 ports to the backplane
  - 3 ports to the front
  - 1 port to redundant fabric slot
- Intel IX5416 GigE switch fabric
- ZNYX Open Architect 3.0
- Two Fast Ethernet ports
  - Chassis management
  - Out-of-band management
- IPMI support

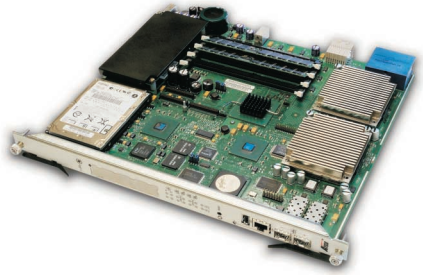
The Kontron AT8900 is a 16-port AdvancedTCA® Base Fabric switch based on the Intel IXE5416 switch silicon. Providing Gigabit Ethernet service for 12 payload slots, the AT8900 uses the ZNYX Networks OpenArchitect 3 running on its embedded MPC8255 to provide complete and flexible switch management. Three switch egress ports are provided, and one port is dedicated to the switch-to-switch connection in redundant configurations. For additional management connections, two out-of-band 10/100 Ethernet management ports and one RS-232 port are provided to the front panel. The AT8900 provides fully PICMG 3.0 compliant chassis management with its on-board IPMI controller.

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Specifications
... learn about the tremendous feature set

High Availability

Two AT8900 AdvancedTCA® switches can be used on a standard ATCA backplane to implement a fully redundant dual-star network architecture over the Base-fabric interface. Each payload slot has two base-fabric connections, one to each switch. With the ZNYX OpenArchitect High Availability (HA) software suite, the chassis can respond and automatically correct any single point of failure.



AT8000 ATCA Dual processor board



XL8000 12U ATCA Chassis

Features

- Dynamic and Static Layer 2 switching
- Dynamic and Static Layer 3 routing
- Layer 4 - 7 packet classification
- Linux 2.4.2 Kernel optimized for PowerPC
- Enhanced Protocol Stack (contact ZNYX for details)
- FTP, TFTP, Telnet - (Server/Client)
- DHCP Server/Client/Relay
- Network File Server / Web Server
- Network Address Translation (RFC1631)
- 802.1Q VLAN with GARP, GMRP, GVRP
- 802.1D Spanning Tree with 802.1w
- Rapid Spanning Tree Algorithm (RSTP)
- Virtual Router Redundancy Protocol (RFC2338)
- IP Multicast Support
- IGMP Snooping, IGMPv1, IGMPv2, DVMRP
- IEEE802.1p Traffic Class/Priority Queues
- Differentiated Services for QOS
- SNMPv1, SNMPv2 SNMPv3
- MIB-II (RFC1213) (RFC2013)
- VLAN Extension MIB (RFC2674)
- 802.1D Spanning Tree MIB
- RMON and RMONv2 MIB
- Commercial Open Policy Service (COPS)
- COPS-PR (Provisioning)
- Differentiated Services Architecture MIB
- Differentiated Services QOS PIB

Connectors

- Gigabit Ethernet: RJ-45
- Management: RJ-45 Serial Port

Media

- Category 5 (4 pair)

Compliance

- PICMG 3.0 - AdvancedTCA Specification
- PICMG 2.9 R1.0 - IPMI Specification

Maximum Channels

- Supports up to 12 payload slots and three egress ports

Packet Switch Rate

- 24 million packets per second

Firmware

- OpenArchitect™ 3.0/IXE Switch Management

Dimensions

- 322.25mm x 280mm (8U formfactor)

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