Highlights

>> **Carrier-Grade 24 10/100 Port Switching Fabric**
Interfaces with other devices via CompactPCI® Packet Switching Backplane or rear panel I/O connector board

>> **PICMG® 2.16-Compliant**

>> **Wire-Speed Switching**
5 Gbps switching speed (over 2.1 million packets/sec with latencies of less than 12m/sec) ensures packets get switched, not dropped

Our CP6900 is an unmanaged, low cost 10/100 Ethernet switching platform. It offers 24 10/100 auto negotiating Ethernet ports in a rugged, hot-swap, CompactPCI® 6U form factor. The result is a cost-effective switching solution for OEMs & integrators looking to quickly launch carrier-grade IP products with basic Ethernet switching capabilities.

The CP6900 is compliant with PICMG® 2.16, which offers the option of sending all Ethernet signals through the mid-plane - enabling designers to vastly increase the inter-board communication capabilities of subsystems located in a CompactPCI chassis. By moving system traffic from the shared bus architecture of CompactPCI to a fault-tolerant, yet industry standard switched backplane approach, overall system throughput can be doubled while retaining the inherent robustness, reliability and hot-swap capabilities of CompactPCI.

The CP6900 is ideal for demanding network applications. Each blade "learns" and caches up to 4k MAC addresses in its filtering database and sustains full wire-speed data rates on all ports with its 5 Gbps switching fabric, eliminating congestion in even the busiest environments.

The CP6900 continues our long tradition of offering high-availability, fault-tolerant solutions for the telecom and data communications industries.

Ordering Information

>> **CP6900   28837**
24-port fabric switch,
PICMG2.16 compliant

>> **CP-RIO6-900   25982**
5-Port RTM

Contact Information

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Specifications

Internal Switching Capacity
• 5 Gbps, non-blocking full wire-speed L2
  switching fabric

Latency
• <12m sec

Base Configurations
• 24 10/100 TX ports (auto negotiating)

Breakout Options
• Rear panel RJ-45 connections or 10/100 links
  over the CompactPCI Packet Switching
  Backplane

CompactPCI Hot-Swap Support
• PICMG 2.1, R2.0
• PICMG 2.16 Section 3.5 (hardware connection
  CompactPCI/PSB layer) hot-swap support

MAC Addresses
• 4k

LED Indicators
• Link, activity, speed, load, power and hot-swap

Standards
• IEEE 802.3, 10BaseT, 100BaseT
• IEEE 802.3x Flow Control
• IEEE 802.3u Auto-Negotiation

Power Requirements
• 15W maximum

System Management
• PICMG 2.9 System Management Bus (SMB)
• Peripheral management

Environment
• Operating Temp: 32-135°F (0-55°C)
• Relative Humidity: 10-90%, non condensing

Agency Certifications
• UL 1950, CSA-C22.2 No. 950 93, FCC Class A
  (Part 15, Subpart J)
• CE
• ETSI EN 300 386 (pending)
• NEBS Level 3-friendly

MTBF
• Estimated 200,000 hrs