CP68302

6U CompactPCI Cost Effective L2+/L3 Ethernet Switch Board

- Compatible PICMG 2.16 Specification
- 24x 10/100/1000M Auto-negotiation Ethernet interfaces
- Support 802.3 Series Standard
- Support IP/ICMP Network Layer Protocol
- Support TCP, UDP Transport Layer Protocol
- Air Cooling & Conduction Cooling Version
Overview

CP68302 is compliant with PICMG CompactPCI specification. The switch board is largely applicable to high speed data switching and routing among boards and payloads at the internal of CPCI and ATR chassis. With standard 6U CPCI form factor, the Switch is compatible with ATR mechanical designs. CP68302 is designed with two heat-dissipating solutions: traditional air-cooling and ruggedized conduction-cooling with reliable anti-shock and anti-vibration performance, and excellent heat dissipation capability.

CP68302 is implemented basic functions of switching and routing stacks. It supports 802.3 series of standard, IP/ICMP network layer protocol and even TCP&DUP transport layer protocol. By twenty-four 10/100/1000M auto-negotiation Ethernet interfaces, CP68302 accomplishes the flexible transmission configurations, meeting both internal and external data exchange demands. Users can benefit from easier fully integration and modularization, and compared with external commercial Switches and HUBs, the system with CP68302 inside improves system reliability and availability dramatically.

Target applications:
- ITS (Intelligent Transportation System), Smart Factory, Smart Grid, Industrial Communications and Computing.

Technical Information

» Capabilities

**Ethernet Forwarding Performance**
- Gigabit wire-speed forwarding

**MAC Address Table**
- 8K
- Support static, dynamic table

**Flash**
- 32MB

**RAM**
- 1GB

**Ethernet Interface**
- 24x 10/100/1000M Auto-negotiation Ethernet interfaces

**CON**
- 1x CON

» Functions and Protocols

**Configuration Management**
- Support CLI way
- Support Telnet way
- Support FTP/TFTP
- Support Ping/traceroute

**Routing Protocol**
- Support static routing
- Support default routing

**Spanning Tree Protocol**
- Support IEEE 802.1d protocol

**VLAN**
- Support 4K VLAN
- Support VLAN based on port

**Power Input**
- Standard CPCI interface power supply, single 5V power supply

**Typical Power Consumption**
- 40W

**Dimension**
- 6U, 4HP

**Weight**
- 430g (Air Cooling Version)

**Network Functions and Protocols**
- Support 802.3 Series Standard
- Support IP/ICMP Network Layer Protocol
- Support TCP, UDP Transport Layer Protocol
- Support TRUNK port bind function

**Exchange Property**
- Port mirroring
- Directional forward
- Port transceivers counting statistics
- Address aging function
- Support COS function

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Environmental Adaptability Index

Operating Temperature
- 0°C ~ +60°C
- -40°C ~ +70°C

Storage Temperature
- -55°C ~ +85°C

Vibration
- Comply with the requirement of vibration test in GJB 150.16-1986

Shock
- As to meet the requirements of GJB 150.18-1986 in strong shock test

Electrical Safety
- Insulation resistance under normal atmospheric conditions should not less than 100MΩ, under the condition of damp environment is not less than 2MΩ
- Palpable harm to people, machine parts should add shield and clearly marked
- That is likely to affect the function of equipment safety and operation should be protective measures

Order Information

<table>
<thead>
<tr>
<th>Product</th>
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