



PART NUMBER: 3U-PER-2PGBHOST

A peripheral slot card for CompactPCI® serial systems. The board is equipped with an Intel® X540 10GBASE-T Ethernet controller and two RJ45 front panel jacks for attachment of Cat 6 or Cat 6A cables up to 100m length. The ability to auto-negotiate between 100Mbps, 1Gbps, and 10Gbps speeds provides the backwards compatibility for a smooth transition and easy migration to 10GbE.

SPECIFICATION

Summary

- PICMG® CompactPCI® Serial Standard (CPCI-S.0) peripheral slot card
- Single Size Eurocard 3U 4HP 100x160mm2
- cPCI-S Backplane Connectors P1 & P2
- Suitable for PCIe x 1 to PCIe x 8 standard peripheral slots, and fat pipe peripheral slots
- Gigabit Ethernet controller Intel® X540
- Link modes 10GBASE-T, 1000BASE-T, and 100BASE-T (IEEE 802.3an, 802.3, 802.3u, and 802.3ab)
- IEEE 802.3an auto-negotiation for automatic link configuration (speed, duplex, flow control)
- Automatic cross-over detection function (MDI/MDI-X)
- Automatic cable diagnostics
- IEEE 802.3x and 802.3z compliant flow control support
- Data Center Bridging (DCB) support 802.1Qaz, 802.1Qbb>
- IEEE 802.1Q (VLAN), IEEE 802.1ad (Double VLAN)
- 15.5KB jumbo frame support
- Hardware-based time stamping (IEEE 1588) and support for 802.1AS - Precise Timing Protocol
- Support for Energy Efficient Ethernet (EEE) standard of IEEE 802.3az
- Rich feature set security functions and I/O virtualization
- Comprehensive offload and performance features e.g. iSCSI, FCoE
- Driver support for all major operating systems
- Two front panel connectors RJ45 with integrated magnetics and echo circuit for noise and EMI cancelling
- Designed & manufactured in Germany
- ISO 9001 certified quality management
- Long term availability
- Rugged solution (coating, sealing, underfilling available on request)
- RoHS compliant
- Commercial operating temperature range 0°C to +70°C
- Industrial operating temperature range -40°C to +85°C on request
- Storage temperature -40°C to +85°C, max. gradient 5°C/min
- Humidity 5% ... 95% RH non condensing
- Altitude -300m ... +3000m
- Shock 15g 0.33ms, 6g 6ms
- Vibration 1g 5-2000Hz
- MTBF 47 years (MIL-HDBK-217F, SN29500 @+40°C)
- EC Regulatory EN55035, EN55032, EN62368-1 (CE)

The Power to Outperform

Would you like to find out more? Be sure to speak to our on-stand team or contact us via the details here and we would be happy to help.

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