



### PART NUMBER: 3U-PER-5PM12HOST

Equipped with five independent Intel® I210 industrial temperature range gigabit Ethernet controllers, each requiring a PCI Express® x1 lane which is provided by a PCI Express® Gen2 packet switch. The downstream ports operate at 2.5GT/s, fully sufficient for the 1Gbps Ethernet data transfer speed. The PCIe x4 upstream port of the PCI Express® packet switch is capable to operate at 4 x 5.0GT/s (Gen2).

## SPECIFICATION

### Summary

- PICMG® CompactPCI® Serial standard (CPCI-S.0) peripheral slot card
- Single Size Eurocard 3U 100x160mm2, front panel width 8HP
- cPCI-S backplane connector P1
- Suitable for PCIe x1 or PCIe x4 standard peripheral slots, and fat pipe peripheral slots
- PLX PCI Express® Gen2 packet switch for optimum bandwidth distribution
- 1 x Upstream port PCIe x4 or PCIe x1, Gen2 or Gen1 PCI Express® over backplane
- 5 x Downstream ports PCIe x1 to Gigabit Ethernet NICs
- Five independent Gigabit Ethernet controllers (5 x MAC address) Intel® I210IT
- Intel® I211-AT Gigabit Ethernet controllers populated as a value alternate (on request only)
- Integrated PHYs 1000BASE-T, 100BASE-TX, 10BASE-T (IEEE 802.3, 802.3u, 802.3ab)
- IEEE 802.3ab Auto Negotiation for automatic link configuration
- Auto MDI, MDI-X Crossover at all speeds
- Full duplex operation at 10/100/1000Mbps
- 9.5KB 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
- Option IEEE 802.1Qav compliant Audio-Video Bridging (AVB)
- IPv4, IPv6, TCP/UDP checksum offloads
- Driver support for all major operating systems
- Five front panel M12 circular connectors
- Choice of high performance X-coded or classic D-coded (aka railway) type connectors
- M12 X-coded connector (8-leads, 1000Mbps Ethernet) or M12 D-coded connector (4-leads, 100Mbps Ethernet) options available - please specify when ordering
- Designed & manufactured in Germany
- ISO 9001 certified quality management
- Long term availability
- Rugged solution
- Conformal coating (railway applications), not available with I211AT value option
- RoHS compliant
- Industrial operating temperature range -40°C to +85°C
- Commercial operating temperature range 0°C to +70°C (value option w. I211AT, on request only)
- 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 33.6 years
- EC Regulations EN55022, EN55024, EN60950-1 (UL60950-1/IEC60950-1)

## 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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