



PART NUMBER: 3U-PER-9PSWITCH

- PICMG® CompactPCI® serial standard (CPCI-S.0) peripheral slot card or system slot card
- Single size Eurocard - 3U mounting height
- CompactPCI® serial backplane connectors P1, P6
- Suitable for PCIe® x 1 capable standard peripheral slots (for option on-board NIC)
- Suitable for CompactPCI® Serial backplane with star architecture ethernet (P6)

SPECIFICATION

| | |
|---|---|
| Front Panel I/O | <ul style="list-style-type: none"> • 4 x M12 X-coded front panel GbE receptacles, rail approved, Cat6A, IEC 61076-2-109 • 1000BASE-T, 100BASE-TX, 10BASE-T compliant data transfer rate front ports • Future proof investment into cabling infrastructure - up to 10Gbps with M12 Cat6A • M12 X-coded to RJ45 connector Cat6A cable assemblies available from several suppliers |
| Backplane I/O (Option) | <ul style="list-style-type: none"> • CompactPCI® Serial backplane connector P1 used for PCI Express® x 1 lane to optional Intel® I210-IS Gigabit Ethernet Controller • Option GbE backplane communication - CompactPCI® Serial backplane connector P6 used for 4 x GbE over backplane • CompactPCI® Serial star type Ethernet architecture backplane suitable for control via system slot CPU card, up to eight 3U-PER-9PSWITCH individually connected to system slot CPU P6 Ethernet ports, for a total of up to 32 x M12 linked front panel switch ports (link type depends on CPU card P6 solution either switch or NIC) • CompactPCI® Serial star type Ethernet architecture backplane suitable for cascading of up to five 3U-PER-9PSWITCH w/o CPU card, one 3U-PER-9PSWITCH master (system slot) is wired via P6 to a maximum of four 3U-PER-9PSWITCH slave boards (peripheral slots), for a total of up to 20 x M12 directly interconnected front panel switch ports • CompactPCI® Serial backplane w/o P6, suitable for CPU control over up to eight 3U-PER-9PSWITCH by means of the optional on-board NIC, for a total of up to 32 x M12 front panel switch ports, for highest application flexibility (routers, LAN segmentation e.g.) |
| Gigabit Ethernet Switch | <ul style="list-style-type: none"> • Marvell® 88E6390 based Gigabit Ethernet switch (in use 8 x GbE MAC/PHY 1000BASE-T, 1 x GbE MAC/SerDes) • High performance, non-blocking, Gigabit Ethernet • Support for up to 16K MAC addresses, 10KByte Jumbo Frames • Supports 802.1 Audio Video Bridging (AVB) Gen 2 • Time Sensitive Networking (TSN) Standards, IEEE 1588v2 one-step PTP • Synchronous Ethernet • Quality of Service (QoS) support with 8 traffic classes • Supports 4096 802.1Q VLANs, three levels of 802.1Q security • Unmanaged or managed solution • Integrated microprocessor (IMP) enables enhanced managed switch designs (customer programming) • IMP GUI debugger w. ANSI C compiler & assembler available on request from Marvell® • Remote (in-band) management available on request via Marvell® SOHO Switch GUI Software • Configurable in-band management through SerDes/SGMII switch port (connected to the optional on-board NIC), or GbE PHY switch port via P6 backplane Ethernet (1_ETH) |
| Gigabit Ethernet Controller (Option) | <ul style="list-style-type: none"> • Intel® I210-IS Gigabit Ethernet controller internally wired to GbE switch via SerDes • 9.5KB Jumbo Frame support • Hardware-based time stamping (IEEE 1588) and support for 802.1AS • Option IEEE 802.1Qav compliant Audio-Video Bridging (AVB) • IPv4, IPv6, TCP/UDP checksum offloads • Based on PCI Express® x 1 from CompactPCI® Serial backplane connector P1 • Driver support for all major operating systems |
| Environmental & Regulatory | <ul style="list-style-type: none"> • Certified quality management according to ISO 9001 • RoHS compliant • Operating temperature 0°C to +70°C (commercial temperature range) available • Operating temperature -40°C to +85°C (industrial temperature range) available • 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 54.5 years (MIL-HDBK-217F, SN29500 @+40°C) • EC Regulatory EN55035, EN55032, EN62368-1 (CE) • Power consumption 12V/0.4A max. |

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.

- 📍 Unit 13 Suttons Business Park, Reading, RG6 1AZ
- ☎ 0118 929 4990
- ✉ uk.sales@hiper-global.com
- 🌐 www.hiper-global.co.uk