3U CPCI-S.0 Dual 10GBASE-T Ethernet Controller

» Latest Ethernet Technology
   Based on Intel® X540 Dual 10GbE Controller

» Outstanding Performance
   x8 PCI Express® 2.1 interface to the backplane

» Rugged Design
   Optionally with P6 for increased mechanical stability
CPS3402
3U CPCI-S.0 Dual 10GBASE-T Ethernet Controller

The CPS3402 is a 3U CompactPCI® Serial board providing two independent copper 10 Gigabit Ethernet interfaces via RJ-45 connectors. The board gives bandwidth-intensive applications a cost effective solution to integrate latest 10GbE network performance. The CPS3402 is equipped with the Intel® X540 controller which is manufactured as single-chip solution with integrated MAC controller and two 10GBASE-T PHYs. For a smooth transition and easy migration to 10GbE, the Ethernet controller provides the ability to auto-negotiate between 100 Mb/s, 1 Gb/s, and 10 Gb/s speeds. The CPS3402 connects to CAT 7 cabling.

### Technical Information

**Front Interfaces**
- **Ethernet**: Two 10 Gigabit Ethernet RJ-45 with integrated magnetics and LEDs (ACT, SPEED)
- **LED**: Pwr (Power): Power Status of the CPS3402
- **Hot Swap Handle**: If the HS handle is pressed, the onboard power supplies will be shut down and the board can be safely removed from the CPCI-S.0 system

**Onboard Interfaces**
- **Ethernet Controller**: » Dual-channel 10 Gigabit Ethernet Controller, Intel® X540
  » 10GBASE-T, 1000BASE-T and 100BASE-TX link modes
- **CompactPCI Serial Interface**
  » P1 and P2 CPCI-S.0 connectors supporting one x8 PCI Express® 2.1 interface
  » Option to assemble the P6 connector for increased mechanical stability
- **CPCI-S.0 Interface**
  » CompactPCI® Serial Specification PICMG® CPCI-S.0 R1.0
  » Safety: compliant to IEC60950-1, EN60950-1, UL94-V0; designed to meet: UL60950-1, CSA 22.2 No. 60950-1
  » EMC: compliant to EN55022 Class B, EN55024, EN61000-6-1/-2/-3/-4, EN50121-3-2 (Railway); designed to meet: FCC, VCCI, BSMI

**General**
- **Dimensions**: 3U / 4HP, 100 x 160 mm
- **Weight**: 280 g
- **MTBF**: 936,253 h acc. to MIL-HDBK-217 FN2, Ground Benign, controlled at 30°C
- **Power Consumption**: Ttyp. 11W with two 10GbE links
- **Environmental**
  » Operating Temperature**: 0°C to +60°C standard, -40°C to +85°C extended temperature
  » Storage Temperature**: -40°C to +85°C (without additional components)
  » Climatic Humidity**: 93% RH at 40°C, non-condensing (acc. to IEC 60068-2-78)

### Ordering Information

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<td>3U / 4HP dual 10GBASE-T Ethernet controller</td>
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Please contact your local sales representative for other configuration options.

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