CPS3402

3U CPCI-S.0 DUAL 10GBASE-T ETHERNET CONTROLLER

- latest ethernet technology
- outstanding performance
- rugged design
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.

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**TECHNICAL INFORMATION**

**FRONT INTERFACES**

- **ETHERNET LED**
  - Two 10 Gigabit Ethernet RJ-45 with integrated magnetics and LEDs (ACT, SPEED)
  - Pwr (Power): Power Status of the CPS3402
  - 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**

- **CPCI-S.0 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

**COMPLIANCE**

- **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
  - 280 g

- **WEIGHT**
  - 936,253 h acc. to MIL-HDBK-217 FN2, Ground Benign, controlled at 30°C

- **MTBF**
  - Typ. 11W with two 10 GbE links

- **POWER CONSUMPTION**
  - 0°C to +60°C standard, -40°C to +85°C extended temperature
  - -40°C to +85°C (without additional components)
  - 93 % RH at 40°C, non-condensing (acc. to IEC 60068-2-78)

**ENVIRONMENTAL**

- **OPERATING TEMPERATURE**
  - 0°C to +60°C standard, -40°C to +85°C extended temperature
  - -40°C to +85°C (without additional components)
  - 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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