3U CPCI-S.0 XMC Carrier

» Versatile Solution
   Cost-effective carrier board for a wide range of applications

» High-Performance Implementation
   XMCs up to x8 PCI Express® 2.1 supported

» Service-Friendly Design
   Hot swap capability and power LED
CPS3105
3U CPCI-S.0 XMC Carrier

The CPS3105 is a 3U CompactPCI® Serial carrier board that provides support for one XMC module. The carrier board is intended to offer system designers a cost-effective solution to expand the systems I/O capability using a wide range of XMCs available on the market. The CPS3105 is equipped with a dedicated PCI Express® Switch between the onboard XMC connector and the CPCI-S.0 system connector providing two advantages. First, it decouples and buffers the PCI Express® signals and restores signal integrity. Second, it is able to convert one x4 PCI Express 3.0 data stream from the system side into one x8 PCI Express® 2.1 data stream to the XMC side. Thus, maximum data bandwidth can be provided to commonly available XMC modules based on PCI Express® 2.1.

Technical Information

Front Interfaces
- XMC
- LEDs
- Hot Swap Handle

Onboard Controller
- PCI Express Switch

Onboard Interfaces
- XMC Connector
- CPCI-S.0 Interface

Compliancy
- CompactPCI® Serial Interface (PICMG® CPCI-S.0 R1.0)
- XMC Specifications ANSI/VITA 42.0 and ANSI/VITA 42.3
- 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, EN61000-6-2/-3/-4, EN50121-3-2 (Railway); designed to meet: FCC, VCCI, BSMI

General
- Dimensions: 3U/4HP, 100 x 160 mm
- Weight: 140 g
- MTBF: 1,072,111 h acc. to MIL-HDBK-217 FN2, Ground Benign, controlled at 30°C
- Power Consumption: Approx. 4.7 W (without XMC module)

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>CPS3105</td>
<td>3U/4HP carrier for one XMC module</td>
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Please contact your local sales representative for other configuration options.

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