CPS3105

3U CPCI-S.0 SMC CARRIER

- versatile solution
- high-performance implementation
- service-friendly design
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

<table>
<thead>
<tr>
<th>FRONT INTERFACES</th>
<th>XMC CONNECTOR</th>
<th>XMC front panel bezel cutout on the Pwr (Power) LED for the status of the CPS3105. 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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONBOARD CONTROLLER</td>
<td>PCI EXPRESS SWITCH</td>
<td>PCI Express® Switch from PLX Technology. Used to convert one x4 PCI Express 3.0 interface to one x8 PCI Express 2.1 interface.</td>
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<tr>
<td>ONBOARD INTERFACES</td>
<td>XMC CONNECTOR</td>
<td>One onboard XMC connector (P15) with one x8 PCI Express 2.1 interface (up to 5 GT/s).</td>
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</table>

#### COMPATIBILITY

- CompactPCI® Serial Specification PICMG® CPCi-S.0 Rev. 1.3
- 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, EN61000-6-1/-2/-3/-4, EN50121-3-2 (Railway); designed to meet: FCC, VCCI, BSMI

#### GENERAL

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

#### ENVIRONMENTAL

- Operating temperature range: 0°C to +60°C standard, -40°C to +85°C extended temperature
- Storage temperature range: -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

<table>
<thead>
<tr>
<th>ARTICLE</th>
<th>DESCRIPTION</th>
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<tr>
<td>CPS3105</td>
<td>3U/4HP carrier for one XMC module</td>
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</table>

Please contact your local sales representative for other configuration options.

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