XChange1002

Dual PrPMC cPCI Carrier Card with PICMG 2.16 Switched Ethernet

- 100 MHz PCI-X cPCI and local bus interfaces
- Hot Swap support
- Two PICMG 2.16 backplane Ethernet ports
- Complies to PICMG 2.0, 2.1, 2.3, 2.9, and 2.16
- VxWorks BSP
- Linux BSP
- IPMI satellite management controller

XChange1002

The XChange1002 is a versatile 6U CompactPCI dual PMC carrier card with a PICMG 2.16 Gigabit Ethernet backplane interface. The XChange1002 supports 100 MHz PCI-X on both the CompactPCI and local bus interfaces (the XChange1002 uses a transparent bridge, which allows it to operate as a peripheral carrier card in a CompactPCI environment).

PICMG 2.1 Hot Swap support allows the XChange1002 to be installed into a live system without disrupting CompactPCI bus activity. In addition, the system management bus support allows the card to be powered down and reset remotely through the PICMG 2.9 IPMI interface. The IPMI interface also allows for the monitoring of voltage and temperature levels on the cards attached to the two PrPMC slots.

Extreme Engineering Solutions

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cPCI
- PICMG 2.1 (Hot Swap support)
- PICMG 2.3 (PMC I/O to J3 and J5)
- PICMG 2.9 (dedicated IPMI controller)
- PICMG 2.16 (two 10/100/1000BASE-T Ethernet ports)

PCI-X PMC Slots
- Maximum aggregate bandwidth of 1 Gbps
- Processor PMC (PrPMC) support

Software Support
- Linux BSP
- Wind River VxWorks BSP
- IPMI drivers

Physical
- 6U cPCI form factor
- 233.35 mm x 160 mm

Environmental Requirements
Contact factory for appropriate board configuration based on environmental requirements.
- Supported ruggedization levels (see chart below): 1
- Conformal coating available as an ordering option

Power Requirements
- 3.3 V, 0.61 A, 2 W

Supported Ruggedization Level

<table>
<thead>
<tr>
<th>Level 1</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Cooling Method</td>
<td>Standard Air-Cooled</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to +55°C ambient (300 LFM)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 to +85°C ambient</td>
</tr>
<tr>
<td>Vibration</td>
<td>0.002 g²/Hz, 5 to 2000 Hz</td>
</tr>
<tr>
<td>Shock</td>
<td>20 g, 11 ms sawtooth</td>
</tr>
<tr>
<td>Humidity</td>
<td>0% to 95% non-condensing</td>
</tr>
</tbody>
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