

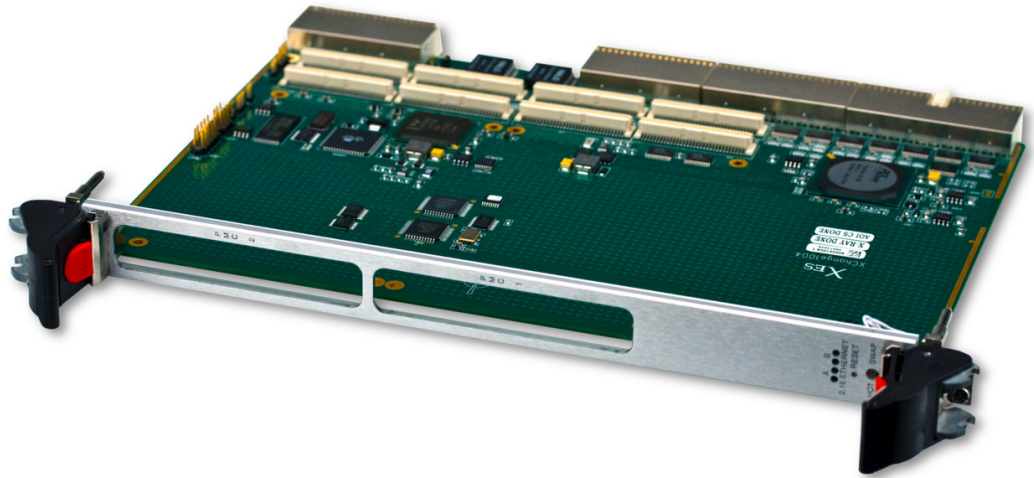
# XChange1004

**End of Life**

Dual PrPMC cPCI Carrier Card with PICMG 2.16 Switched Ethernet

Please contact X-ES Sales

- › 100 MHz PCI-X cPCI and local bus interfaces
- › Autosense system/peripheral slot
- › Hot Swap support
- › Two backplane Gigabit Ethernet ports
- › Complies with PICMG 2.0, 2.1, 2.3, 2.9 and 2.16
- › IPMI satellite management controller
- › Wind River VxWorks BSP
- › Linux BSP



## XChange1004

The XChange1004 is a 6U CompactPCI dual PMC carrier card with a PICMG 2.16 Gigabit Ethernet interface. The XChange1004 detects if it is a system controller and configures the cPCI bridge to operate in transparent mode. (A PrPMC must be installed on the XChange1004 if it is used in the system slot, since there are no intelligent devices on the XChange1004.) As a peripheral, the cPCI bridge operates in non-transparent mode, which offers address isolation, in addition to electrical isolation.

PICMG 2.1 Hot Swap support allows the XChange1004 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.

# X-ES

Extreme Engineering Solutions

*...Always Fast*

### Extreme Engineering Solutions

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**cPCI**

- 66 MHz 64-bit PCI interface to J1 and J2
- 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 Gb/s
- Processor PMC (PrPMC) support
- 10 mm stacking height

**Software Support**

- Linux BSP
- Wind River VxWorks BSP
- Ethernet and IPMI drivers

**Physical Characteristics**

- 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

Ruggedization Level	Level 1	Level 3	Level 5
Cooling Method	Standard Air-Cooled	Rugged Air-Cooled	Conduction-Cooled
Operating Temperature	0 to +55°C ambient (300 LFM)	-40 to +70°C (600 LFM)	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C (maximum)
Vibration	0.002 g <sup>2</sup> /Hz (maximum), 5 to 2000 Hz	0.04 g <sup>2</sup> /Hz (maximum), 5 to 2000 Hz	0.1 g <sup>2</sup> /Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing

