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Find the *Extreme Engineering Solutions XChange1004* at our website: *Click HERE*

XChange1004

Dual PrPMC cPCI Carrier Card with PICMG 2.16 Switched Ethernet

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



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

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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 Gbps
- Processor PMC (PrPMC) support
- 10 mm stacking height

Software Support

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

Physical

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

Environmental Requirements

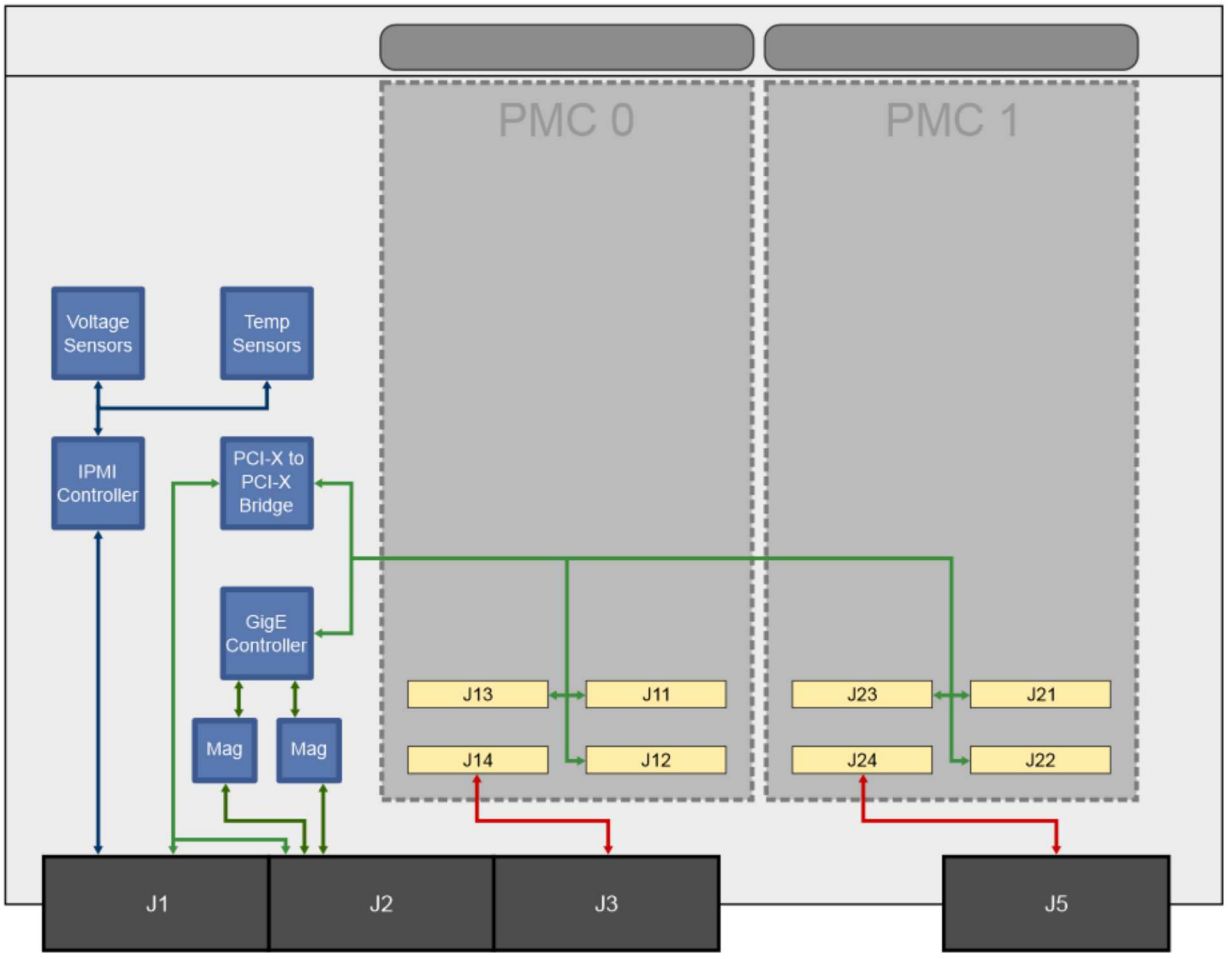
Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1
- Conformal coating available as an ordering option

Power Requirements

- 3.3V, 0.61 A, 2 W

Supported Ruggedization Level	Level 1
Cooling Method	Standard Air-Cooled
Operating Temperature	0 to +55 °C ambient (300 LFM)
Storage Temperature	0 to +85 °C ambient
Vibration	0.002 g²/Hz, 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing



XChange1004

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