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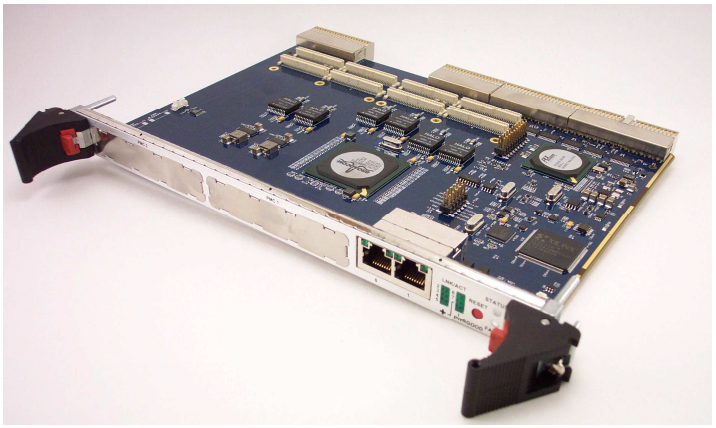
XCPC-9100
CompactPCI PMC Carrier with Eight port Switch

Overview



XCPC-9100 is a full hot swap capable mezzanine carrier board that can hold up to 2 PMC modules with front or rear-panel I/O support in single 6U CompactPCI slot. The XCPC-9100 can accept two PrPMC (PMC processor module) configured as Monarch or Non-Monarch. The XCPC-9100 also includes on-board IPMI controller with VLAN programming Capability.

Using the industry-standard PLX PCI-6540 PCIX-to-PCIX bridge, the XCPC-9100 supports a 32/64-bit data path 33/66 MHz for up to 512 MB/s operation. The two PMC sites support bus mastering and 3.3V signaling. This carrier has an on-board 8-port Ethernet switch for routing the two channels of PMC Ethernet lines out to PICMG 2.16 and allowing for two Ethernet ports out the front. XCPC-9100 is ideal for use in high-performance industrial, COTS, and telephony CPCI systems that require I/O expansion using the PMC form factor. Ideal for hosting FPGA modules.

RoHS compliant

Features

- 6U CompactPCI carrier board with sites for two PMC modules
- PMC sites support PrPMC modes for Monarch or both can be Non-Monarch operation.
- Provides 15 watts of power for each PMC site for FPGA PMCs
- 64-bit, 33/66 MHz, PLX Technology PCIX-to-PCIX Bridge
- Two 10/100/1000Mbps Ethernet ports on the front panel using RJ-45s
- On-board 8-port 10/100/1000Mbps Ethernet switch for support of PICMG 2.16
- Rear Ethernet ports from PMC modules are routed to on-board switch and provides PICMG 2.16
- Full hot swap PICMG 2.1 compliant
- On-board IPMI controller and VLAN Programming
- Status LEDs for Power (green) and Hot Swap (blue)
- Supports standard (IEEE1386.1) PMC modules
- CompactPCI specification, PICMG 2.0, version 3.0 compliant
- Front or Back Panel I/O supports on both PMC sites
- 128 I/O lines with 16 differential pairs via rear panel J3, J5 CompactPCI connectors
- 3.3V PCI signaling for the PMC sites. , with extended power on each site.

Host High Wattage Modules

Xembedded LLC 1050 Highland Drive, Suite E, Ann Arbor, MI 48108 Ph. 877.944.1942 Fax 734.975.0588
See us at www.xembedded.com DS_649100_RevJ

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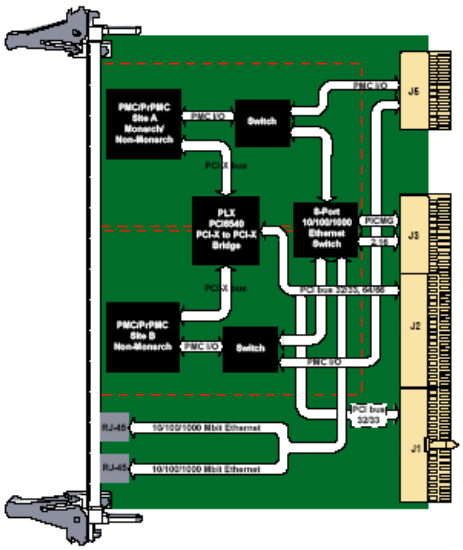

CompactPCI Interface

- Module can work as the System Controller or as a Peripheral board

PMC Interface

- PMC site A will support either Monarch or Non-Monarch PMC processor modules. PMC site B will only support Non-Monarch PMC processor modules.
- 3.3 Volt, 5 Volt, +12 Volt and –12 Volt provided for PMC modules via CPCI backplane
- Front or rear-panel I/O support for both PMC sites
- Interfaces 2 PMC modules in a single 6U CompactPCI slot 32/64-bit, 33/66 MHz, up to 512 MB/s operation.
- High Wattage for each PMC site. The XCPC –9100 can source 15 watts from each site.

Ethernet support

- On-board 8-port Ethernet switch for 10/100/1000Mbps out J3 (PICMG 2.16) and two front Ethernet ports.
- VLAN Programming on Board.

Hot Swap Function

- "Hot Swap" live insertion and extraction capability (PICMG 2.1 Rev. 2.0 compliant)
- Hot swap registers;
  - insertion
  - extraction
  - ENUM mask/enable
  - front panel blue LED

IPMI Controller with FRU.

Environmental

Form Factor: 6U Compact PCI Width 9.2" (233mm) Depth 6.3" (160mm)

Carrier Interface CompactPCI, PICMG 2.0, version 3.0 compliant

Power Requirements:

+3.3 VDC, 260 mA typical plus any additional power consumed by PMCs

+5 VDC, 100 mA typical plus any additional power consumed by PMCs

Operating Temperature: 0° to 55° C (Air flow requirement as measured with heat sink is to be greater than 200 LFM)

Vibration: .05Gs RMS (20 - 2000 Hz) random, Operating 6Gs RMS per Hz spectrum
Shock: 30Gs each axis
Storage Temperature: -25° to 80° C
Relative Humidity: 5 to 95 percent, non-condensing
MTBF: MIL Spec 217-F@ 105,000 Hrs.

Compliance
IEEE 1386.1 (CMC Standard), VITA 32 (PrPMC Standard).

Order Information
XCPC-9100-ABC
- **A = IPMI Controller**
  - **1 = Installed**
  - **2 = Not Installed**
- **B = Conformal Coating**
  - **0 = No Coating**
  - **1 = Humiseal 1A33 Polyurethane Conformal Coating**
  - **2 = Humiseal 1B31 Acrylic Conformal Coating**
- **C= Extended Temperature**
  - **C = Standard 0° to 55°**
  - **E = Extended Temperature -25° to 70°**

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