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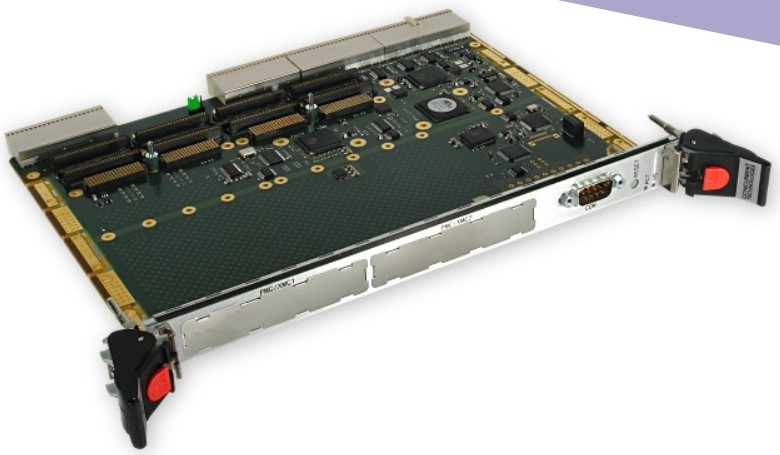
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CompactPCI

PP XMC/M02

N, E, K - Series

Dual XMC/PMC Carrier Board



APPLICATIONS

The PP XMC/M02 dual XMC/PMC carrier board provides a flexible solution for designers wishing to add functionality to 6U CompactPCI® systems by using XMC or PMC modules. The carrier can accommodate two single or one dual width, PMC or XMC modules conforming to the IEEE 1386 Common Mezzanine Card standard. The PP XMC/M02 can support up to 100 MHz PCI/PCI-X PMC modules and x4 PCI Express® XMC modules. A wide range of XMC/PMC modules can be supported, including processor modules (Root-Complex or Monarch), SAS, SATA, LAN, WAN, Graphics and Communications Controllers. The PP XMC/M02 board supports the CompactPCI hot swap mode which enables live insertion and extraction of the carrier allowing modules to be added, replaced or upgraded without interruption to the system operation. Rear I/O signals from each of the XMC/PMC sites are routed via either PMC Pn4 or XMC Pn6 rear I/O connectors to the CompactPCI J3 and J5 connectors. For harsher environments an extended temperature version is supported.

HIGHLIGHTS

- Supports 2 single size XMC or PMC modules (or as one dual width module)
- A single XMC and a single PMC module can be used simultaneously
- Processor module support available on site 1:
  - Monarch and Root-Complex modes
  - Non-Monarch and End-Point modes are supported on both sites
  - Concurrent Technologies provide a range of processor modules supporting Intel® Core™ and Intel® Atom™ processors
- XMC module interfaces support:
  - x1, x2 or x4 PCI Express®
- PMC module interfaces supports:
  - 5 Volt or 3.3 Volt signaling
  - 32/64-bit and 33/66/100 MHz PCI/PCI-X
- Front panel I/O, and rear I/O via J3 and J5 connectors:
  - 64 I/O signals via PMC Pn4 or XMC Pn6 rear connectors
  - rear I/O routed as differential pairs
- "Hot Swap" live insertion and extraction
  - PICMG® 2.1 (Hot Swap specification)
- IPMI (Intelligent Platform Management Interface):
  - PICMG® 2.9 (System Management Specification)
- Occupies one 6U CompactPCI slot:
  - 5 Volt or 3.3 Volt signaling
  - 32/64-bit and 33/66 MHz
- Extended temperature versions (E-Series, K-Series):
  - E: -25°C to +70°C, air-cooled
  - K: -40°C to +85°C, humidity sealant, air-cooled
- 3.3 Volt, 5 Volt, +12 Volt and -12 Volt provided for XMC and PMC modules via CompactPCI backplane
- A Rear Transition Module is available

CONCURRENT TECHNOLOGIES

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Specification

Dual XMC/PMC Carrier

- supports 2 single size XMC/PMC modules (or as one dual width module):
  - ➔ a single PMC and a single XMC module can be used simultaneously
  - ➔ supports Monarch and Root-Complex processor modules, PrPMC or PrXMC, in site 1 only
- XMC module interface requirements:
  - ➔ x1, x2 or x4 PCI Express®
  - ➔ VPOWER supply is +5V only
- PMC module interface requirements:
  - ➔ 5 Volt or 3.3 Volt signaling
  - ➔ 32/64-bit and 33/66/100 MHz PCI/PCI-X
- complies with XMC (Switched Mezzanine Card) VITA 42 standard
- complies with CMC (Common Mezzanine Card) standard IEEE 1386-2001 and PMC (PCI Mezzanine Card) standard IEEE 1386.1-2001
- front panel I/O, and rear I/O build options via J3 and J5 connectors:
  - ➔ 64 I/O signals per XMC/PMC site
  - ➔ 64 I/O signals via PMC Pn4 or XMC Pn6 connectors to the rear
  - ➔ rear I/O routed as differential pairs
  - ➔ can be connected to an optional Rear Transition Module (AD PP5/007, with two PIM sites)

CompactPCI Bridge Setup

- CompactPCI bridge configuration setup:
  - ➔ uses a RS232 serial port or IPMI
  - ➔ bridge initialization and setup implemented via micro-controller
  - ➔ RS232 port available via front and rear panel

Hot Swap Function

- permits live insertion and extraction of PP XMC/M02 carrier:
  - ➔ front panel blue LED
- supports Basic and Full Hot Swap
- compatible with PICMG® 2.1, Rev 2.0 Hot Swap specification
- CompactPCI backplane interface signals:
  - ➔ ENUM (board insertion/extraction indication)
  - ➔ healthy (power)

IPMI

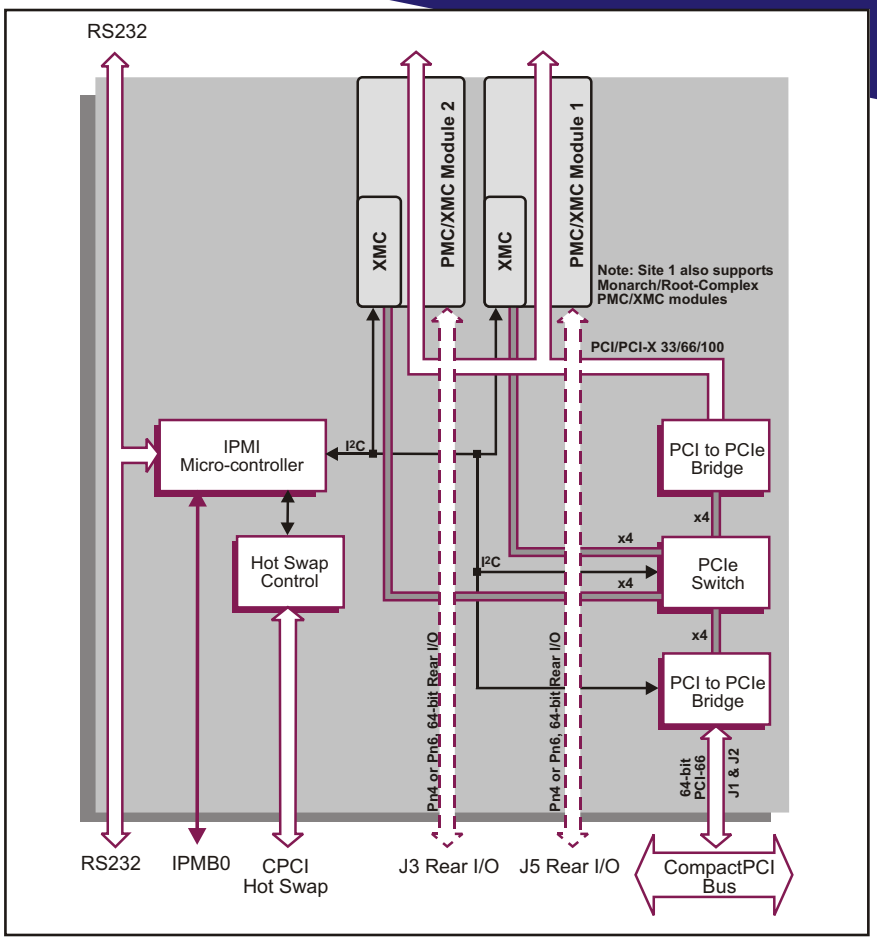
- PICMG® 2.9 R1.0 (System Management Specification):
  - ➔ implements the IPMB0 interface
- on-board Baseboard Management Controller
- monitors board voltages and status indicators
- supports 8 Kbytes of non-volatile memory

CompactPCI Bus Interface

- occupies one 6U CompactPCI® slot
- conforms to PICMG 2.0 R3.0:
  - ➔ supports 3.3V and 5V signaling
  - ➔ 32/64-bits at 33/66 MHz
- PCI Express to PCI reversible bridge

Other Features

- front panel activity LED:
  - ➔ flashes with on-board PCI bus activity



Compatible Processor Modules

- PrPMC and PrXMC examples:
  - ➔ XP 732/x8x, Intel® Core™ i7 processor
  - ➔ XP A40/x0x, Intel® Atom™ processor Z530
- contact your local sales office for further information
- supported operating systems depend on the processor module used

Safety

- PCB (PWB) manufactured with flammability rating of 94V-0

Electrical Specification

- all current figures are typical (without XMC/PMC modules fitted)
- +5V @ 0.2A; voltage +5%/-3%
- +3.3V @ 1.0A; voltage +5%/-3%
- +12V @ <5mA; voltage +5%/-5%
- -12V not required

Environmental Specification

- operating temperatures, air-cooled:
  - ➔ 0°C to +55°C (N-Series)
  - ➔ -25°C to +70°C (E-Series)
  - ➔ -40°C to +85°C (K-Series)
- storage temperature: -40°C to +85°C
- 5% to 95% Relative Humidity, non condensing (operating or storage):
  - ➔ K-Series includes humidity sealant

Mechanical Specification

- 6U form-factor: 9.2-inches x 6.3-inches (233mm x 160mm)
- single-slot: 0.8-inches (20.3mm)
- connectors: IEC-1076-4-101 for J1-J5, J4 not fitted
- operating shock: 20g, 11ms, ½ sine
- operating vibration: 5Hz-2000Hz at 2g, 0.38mm peak displacement

ORDERING INFORMATION

Order Number	Product Description (Hardware)
PP XMC/M02-yz	Dual XMC/PMC Carrier Board with rear I/O via PMC Pn4 or XMC Pn6 rear I/O connectors

For the order number suffix (yz) options please contact your local sales office: where yz = build options for PMC Pn4 or XMC Pn6 rear I/O connectors

For extended temperature E and K-Series, please contact your local sales office.

All companies and product names are trademarks of their respective organizations.
Specification subject to change; E and OE. RoHS 2002/95/EC compliant.

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