6U CompactPCI® Dual XMC/PMC Carrier

Key Features
PP XMC/202 is a 6U CompactPCI® carrier board for up to two XMC/PMC modules.

- XMC/PMC size options:
  - two single size modules
  - one dual width module
- XMC/PMC combinations:
  - two XMC modules
  - two PMC modules
  - one XMC and one PMC module
- Extended temperature and rugged conduction-cooled versions available
6U CompactPCI Dual PMC/XMC Carrier

- 6U CompactPCI® Dual PMC/XMC Carrier supports:
  - 2 single size XMC or PMC modules (or as one dual width module)
  - a single PMC and a single XMC module can be used simultaneously
  - supports non-Monarch Processor XMC/PMC modules
  - operation with 33/66 MHz backplanes
  - commercial air-cooled
  - rear I/O compatible option with PP XMC/302

**XMC and PMC Interfaces**

- Supports 2 single size XMC or PMC modules (or as one dual width module):
  - a single PMC and a single XMC module can be used simultaneously
  - supports non-Monarch Processor XMC/PMC modules

- XMC module interface requirements:
  - x1, x2 or x4 PCI Express
  - logical and electrical layer meets specification PCI Express 1.1

- PMC module interface requirements:
  - 5 Volt or 3.3 Volt signaling
  - 32/64-bit and 33/66 MHz PCI/PCI-X
  - logical and electrical layer meets specification PCI-X 1.0


- front panel I/O, and rear I/O via J3 and J5 connectors:
  - 64 I/O signals per XMC/PMC site
  - rear I/O routed as differential pairs
  - rear I/O options for XMC Pn6 or PMC Pn4 connectors
  - can connect to an optional Rear Transition Module (AD PP5/002 or AD PP5/003)

**Hot Swap Function**

- permits live insertion and extraction of PP XMC/202 carrier
- supports Basic and Full Hot Swap
- compatible with PICMG® 2.1, Rev 2.0 Hot Swap specification
- Hot Swap capable register:
  - insertion
  - extraction
  - ENUM mask/enable
  - front panel blue LED
- CompactPCI backplane interface signals:
  - ENUM (board insertion/extraction indication)
  - healthy (power)

**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

**Other Features**

- front panel activity LED:
  - flashes with on-board PCI bus activity
- front panel fault LED:
  - reports power fault or PCI bus error conditions

**Electrical Specification**

- all figures are typical and do not include PMC/XMC module requirements:
  - PMCMCM module not fitted
  - +5V @ 0.02A; +5%/-3%
  - +3.3V @ 1.0A; +5%/-3%
  - +12V @ 0.002A; +5%/-5%
  - -12V @ 0.0A; +5%/-5%

**Environmental Specification**

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

**Safety**

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

**Mechanical Specification**

- 6U form-factor: 9.2" x 6.3"
  (233.4mm x 160mm)
- utilizes a single CompactPCI® slot: 0.8" (20.3mm)
- connectors: IEC-1076-4-101 for J1, J2, J3, J5
- shock: 20g, 11ms, ½ sine
- vibration: 5Hz-2000Hz at 2g, 0.38mm peak displacement

Please contact your local Concurrent Technologies sales office for further details on board build options and accessories.