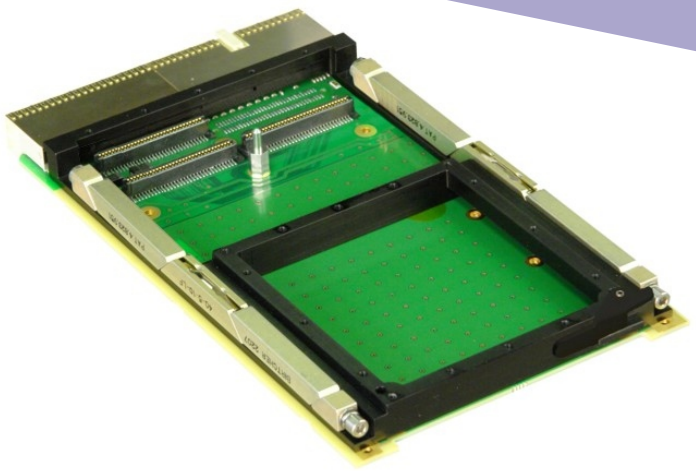
CompactPCI Ruggedized

TP CR1/PMC-RC

RC - Series

3U CompactPCI PMC Carrier Board, Rugged Conduction-Cooled



APPLICATIONS

The ruggedized 3U CompactPCI® TP CR1/PMC PMC bridgeless carrier board provides a flexible solution for designers wishing to add PMC I/O functionality to a 32-bit CompactPCI system. The TP CR1/PMC-RC can accommodate one single width PMC module conforming to the IEEE 1386 Common Mezzanine Card standard. A wide range of commercial, or proprietary design, PMC modules can be supported such as SAS, LAN, WAN, Graphics and Communications Controllers. Front panel access is supported and I/O signals from the PMC site are routed to the CompactPCI J2 connector allowing access from the rear of the system. The TP CR1/PMC-RC is rear I/O plug compatible with the non-ruggedized air-cooled versions.

HIGHLIGHTS

- Ruggedized 3U CompactPCI PMC Carrier:
  - conduction-cooled to ANSI/VITA 30.1-2002
  - conformally coated
  - -40°C to +85°C operating temperature (at card edge)
- 3U CompactPCI® PMC Carrier supports:
  - operation with 32-bit 33/66 MHz backplanes
  - one single size 32-bit, 33/66 MHz PMC module
  - 5 Volt or 3.3 Volt signaling
  - I/O via front panel and 64 rear I/O signals via J2
- 3.3 Volt, 5 Volt, +12 Volt and -12 Volt provided for PMC modules via CompactPCI backplane
- Occupies one 3U CompactPCI slot
- Non-ruggedized air-cooled versions (N, E, K-Series):
  - N: 0°C to +55°C, commercial, non-ruggedized
  - E: -25°C to +75°C, extended, non-ruggedized
  - K: -40°C to +85°C, humidity-sealed, non-ruggedized

CONCURRENT TECHNOLOGIES

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Specification

Ruggedized PMC Carrier
- conduction-cooled to ANSI/VITA 30.1-2002
- conformally coated
- for non-ruggedized air-cooled versions - see separate datasheet:
  - ➔ rear plug compatible
  - ➔ non-ruggedized: TP CR1/PMC

3U CompactPCI PMC Carrier
- 3U CompactPCI® PMC Carrier supports:
  - ➔ one single size 32-bit, 33/66 MHz PMC module
  - ➔ operation with 32-bit 33/66 MHz backplanes

PMC Interface
- PMC site supports:
  - ➔ 32-bit, 33/66 MHz PCI bus
  - ➔ 5 Volt or 3.3 Volt signaling
  - ➔ 64 rear I/O signals via J2
  - ➔ conforms to PICMG 2.3 R1.0 pinouts
- complies with CMC (Common Mezzanine Card) standard IEEE 1386-2001 and PMC (PCI Mezzanine Card) standard IEEE 1386.1-2001
- I/O can be accessed via J2

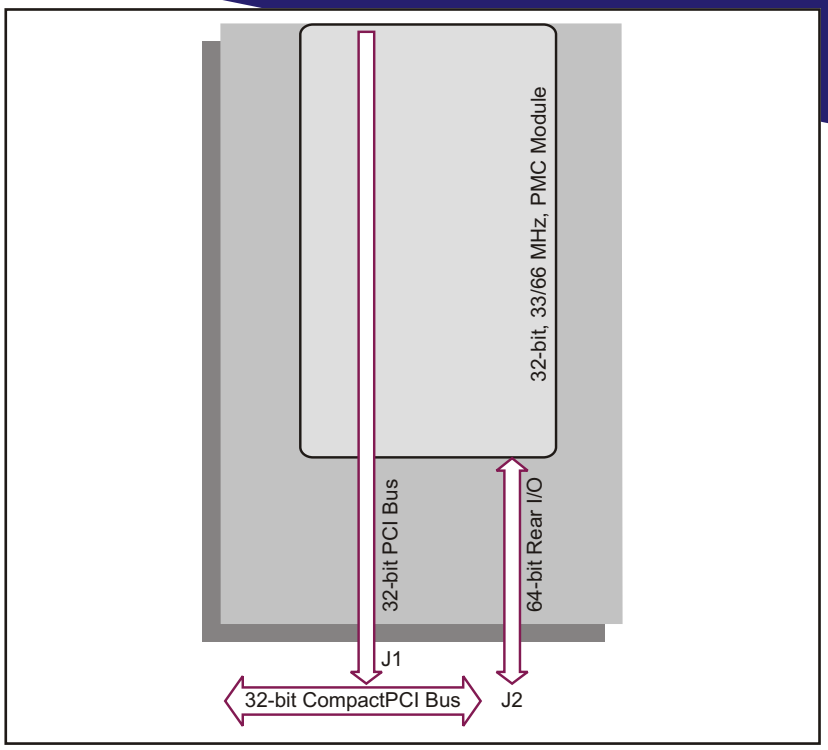
CompactPCI Bus Interface
- pinout conforms to PICMG 2.0 R3.0:
  - ➔ 32-bit, 33MHz and 66 MHz PCI bus
  - ➔ supports 3.3V and 5V signaling
- passive CompactPCI interface:
  - ➔ no CompactPCI bridge

Electrical Specification
- CompactPCI V(I/O) power rail used for PMC V(I/O):
  - ➔ typical current <10mA
- +12V@0.0A; -12V@0.0A
- all power supply rails available to PMC site:
  - ➔ overall power consumption is PMC dependent

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

Environmental Specification
- operating temperature (at card edge):
  - ➔ VITA 47 Class CC4, -40°C to +85°C
  - ➔ conduction-cooled
- storage temperature:
  - ➔ VITA 47 Class C4, -55°C to +105°C
- operating altitude:
  - ➔ -1,000 to 50,000 feet (-305 to 15,240 meters)
- 5% to 95% Relative Humidity, non condensing (operating/storage)

Mechanical Specification
- 3U form-factor:
- 3.9-inches x 6.3-inches (100mm x 160mm)
- single slot
- connectors: IEC-1076-4-101 for J1-J2
- operating mechanical:
  - ➔ shock - VITA 47 Class OS2, 40g
  - ➔ random vibration - VITA 47 Class V3, 0.1g²/Hz



ORDERING INFORMATION

Order Number	Product Description (Hardware)	Replace the order number suffix (y) with selections from the following:
		where y = PCI Bus Speed
TP CR1/PMC-1yRC	Ruggedized conduction-cooled 3U CompactPCI PMC Carrier Board, 32-bit 33/66 MHz PCI, 64-bit rear I/O	1 - 33/66 MHz 4 - 33 MHz

For non-ruggedized air-cooled boards (N-, E- and K-Series), please contact your local sales office.

Datasheet Code 1568/0813