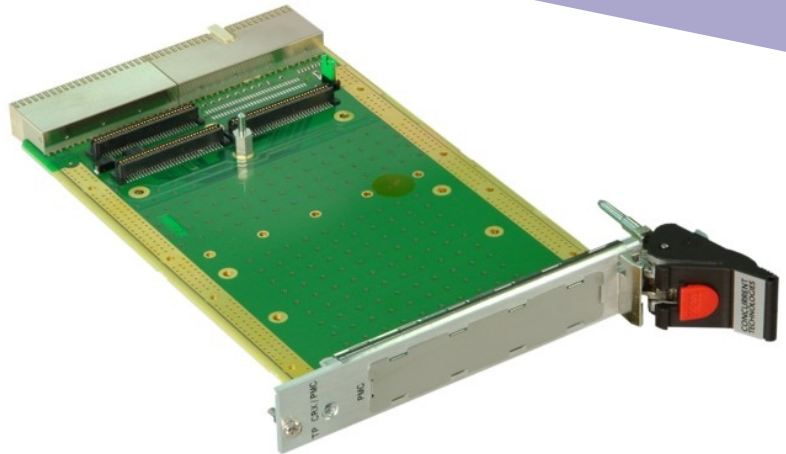


## 3U CompactPCI PMC Carrier Board



### APPLICATIONS

The 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 can accommodate one single width PMC module conforming to the IEEE 1386 Common Mezzanine Card standard. A wide range of commercial, or proprietary designed, 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. For harsher environments, extended temperature and ruggedized conduction-cooled versions of the TP CR1/PMC are supported.

### HIGHLIGHTS

- 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
- 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
- Ruggedized versions (RC-Series):
  - RC: -40°C to +85°C (at card edge) conformally coated, conduction-cooled to ANSI/VITA 30.1-2002

## 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
  - commercial air-cooled
- for ruggedized versions, see separate datasheet:
  - rear plug compatible
  - conduction-cooled: TP CR1/PMC-RC

## 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 front panel or via J2
- Rear Transition Module available

## 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

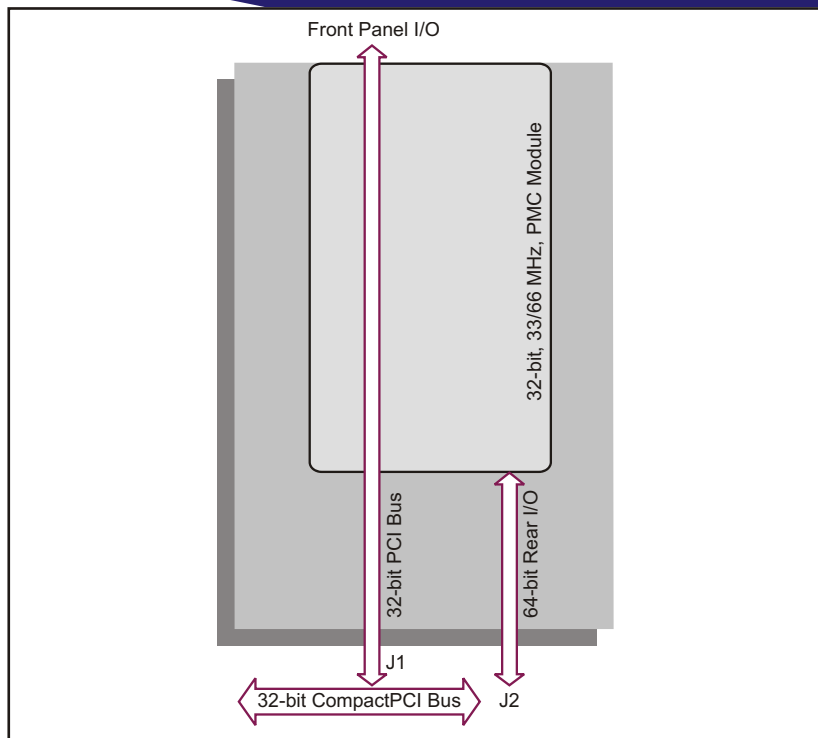
- PCB (PWB) manufactured with flammability rating of 94V-0

## Environmental Specification

- operating temperatures:-
  - 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

- 3U form-factor:
  - 3.9-inches x 6.3-inches (100mm x 160mm)
- single slot
- connectors: IEC-1076-4-101 for J1-J2
- shock: 20g, 11ms, ½ sine
- vibration: 5Hz-2000Hz at 2g, 0.38mm peak displacement



## ORDERING INFORMATION

### Order Number Product Description (Hardware)

TP CR1/PMC-10 3U CompactPCI PMC Carrier Board, 32-bit 33/66 MHz PCI, 64-bit rear I/O

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