

► 3U CompactPCI PMC Extension Carrier Card

The 3U CompactPCI Extension Carrier Card (ECC) provides a formfactor conversion from 3U CompactPCI to PCI Mezzanine (PMC).

Backplane I/O is supported via the cPCI J2/P2 connector.



Conduction-Cooled 3U CompactPCI PMC Extension Carrier Card

Features

- allows the varied functionality of PMC formfactor adapters to be used in 3U and 6U CompactPCI systems
- conduction-cooled and air-cooled options

Applications

- ruggedised systems
- mission-critical systems



▶ 3U CompactPCI to PMC Extension Carrier Card

| | | | |
|-------------------------|---|---|--------------------------------|
| Bus Interface | 32-bit, 33/66 MHz | | |
| Power | 60 mA from VI/O (3,3 V or 5 V) | | |
| MTBF | Figures according to MIL-HDBK-217F, Parts Stress Method | | |
| | Commercial and Industrial Grades | Ground Benign, Controlled, 25 C | 750 000 hours |
| | Ruggedised Grade | Ground, Mobile, 45 C | 150 000 hours |
| | Conduction-Cooled Grade | Naval, Sheltered, 40 C Airborne, Inhabited Cargo, 55 C | 250 000 hours 200 000 hours |
| Software Drivers | Not required. | | |

Physical Characteristics

| Formfactor | Dimensions | Mass |
|----------------------|-------------------------|--------------|
| 3U Air-Cooled | 100 mm x 170 mm x 20 mm | 100 g ± 10 g |
| 3U Conduction-Cooled | | 200 g ± 15 g |

Environmental Specifications

| Grade | Commercial | Industrial | Ruggedised |
|--------------------|-------------------------------|------------------------------|------------------------------|
| Temperature | | | |
| - Operating | 0 C to +55 C | -15 C to +75 C | -40 C to + 85 C |
| - Storage | -40 C to +85 C | -40 C to +85 C | -55 C to +125 C |
| Humidity | 0% - 90% | 0% - 95% | 0% - 95% |
| Shock | 10 g peak for 11 ms | 20 g peak for 11 ms | 40 g peak for 11 ms |
| Vibration | | | |
| - Sine | 2 g (peak) at 10 Hz to 100 Hz | 5 g (peak) at 5 Hz to 2 kHz | 10 g (peak) at 5 Hz to 2 kHz |
| - Random | 0,04 g²/Hz at 15 Hz to 2 kHz | 0,06 g²/Hz at 15 Hz to 2 kHz | 0,1 g²/Hz at 15 Hz to 2 kHz |

| Part Selector | | | |
|--------------------|----------------|-------------------|----------------|
| Part Designation | Formfactor | Grade | Product Status |
| CCII/FFC/3CPMC/COM | 3U cPCI to PMC | Commercial | Production |
| CCII/FFA/3CPMC/IND | 3U cPCI to PMC | Industrial | Production |
| CCII/FFA/3CPMC/RGD | 3U cPCI to PMC | Ruggedised | Production |
| CCII/FFA/3CPMC/CC | 3U cPCI to PMC | Conduction-Cooled | Production |