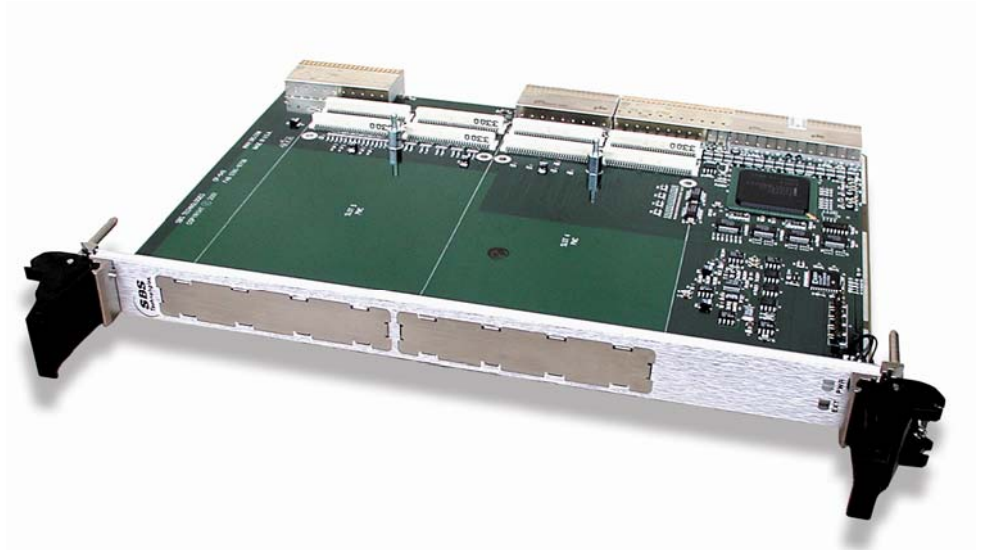


### Features

- Interfaces two PMCs in a single 6U CompactPCI slot
- Full hot swap capability – PICMG 2.1 compliant
- Front- or back-panel I/O support for both PMC sites
- 5.0V signaling
- Four impedance-matched I/O pairs per PMC slot for rear I/O; for use with SBS 100BaseTx PMCs
- Supports bus mastering PMCs
- 64-bit, 33/66 MHz, up to 512 MB/s operation
- Status LEDs for power and hot swap
- 128 I/O lines via rear-panel J3, J5 CompactPCI connectors with 16 pairs of I/O lines routed differentially at 100 ohms



**CP-641** is a hot swap capable mezzanine carrier board that can hold up to two PCI Mezzanine Cards (PMCs) with front- or rear-panel I/O support in a single 6U CompactPCI® slot. The CP-641 carrier board is ideal for use in high-performance industrial, COTS, and telephony CompactPCI systems that require I/O expansion using the PMC form factor.

Using PLX technology, PCI6154 PCI-to-PCI Bridge, this carrier board supports a 64-bit data path at 33/66 MHz for up to 512 Mb/s operation. The two PMC sites support bus mastering. CP-641 has 5.0V secondary signaling.

CP-641 complies with the PICMG 2.0 version 3.0 CompactPCI specification.



# CP-641

## Block Diagram

### Specifications

#### Technical Highlights

- 6U CPCI form factor
- Two 5.0V PMC sites, each with front- and rear-panel I/O access
- Intel 21154BC PCI-PCI bridge
- Board power (green) and hot swap (blue) status LEDs

#### CompactPCI Interface

- Hot swap capable, 33/66 MHz, 32/64-bit, master/slave
- CompactPCI, PICMG 2.0 version 3.0 compliant

#### PCI Compliance

- PCI Specification, Rev. 2.2

#### PMC Interface

- IEEE 1386.1 PMC

#### Power Requirements

- +3.3 VDC, 600mA max. (plus additional power consumed by PMCs)
- +5.0 VDC, 100mA max. (plus additional power consumed by PMCs)

#### Dimensions

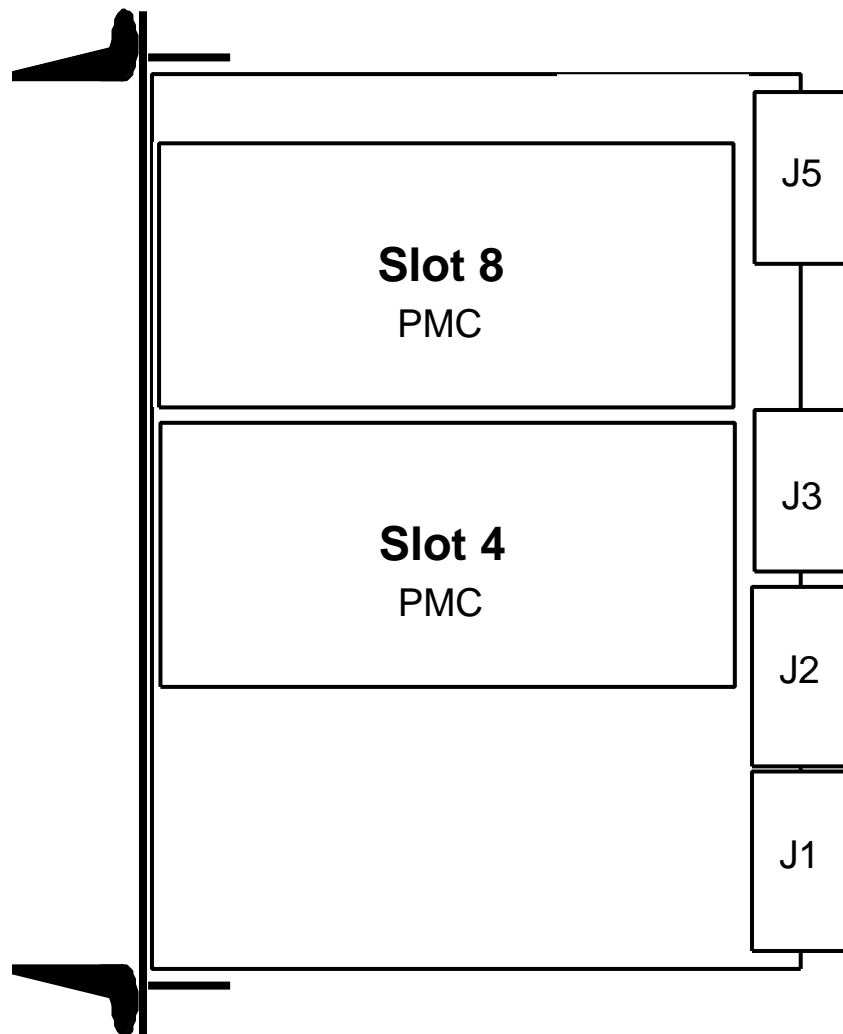
- 233mm x 160mm

#### Weight

- Weight: 0.26 kg (9.2 ounces)

#### Environmental

- Operating Temperature: 0°C to +70°C
- Storage Temperature: -40°C to +85°C
- Humidity: 5% to 95% non-condensing



### Ordering Information

**CP-641**

Hot swap capable dual PMC mezzanine carrier board for 6U CompactPCI; 5.0V signaling

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