

## 6U *CompactPCI*<sup>®</sup> to PCI Carrier

The **PCI Carrier** allows the operation of any standard (desktop) PCI card in a *CompactPCI*<sup>®</sup> system. The **PCI-Adapter** acts as a PCI bridge, providing an electrically and mechanically optimized interface between PCI and *CompactPCI*<sup>®</sup> system.

Our adapters include a PCI Bridge. **Some competitor products do not provide a PCI bridge**, thus reducing adapter costs by tolerating a violation of the PCI specs. Overall PCI compatibility however is a must in order to achieve total system reliability. ***Please bear these facts in mind, when comparing prices of PCI-Adapters.***

All modern operating systems can treat a PCI bridge in a plug and play manner meaning that the bridge remains virtually transparent, as if the PCI component(s) behind the bridge on the secondary PCI bus were part of the primary PCI bus.

Using the **PCI Carrier**/bridge allows standard PCI boards to work in a *CompactPCI*<sup>®</sup> system is both a reliable technical solution, and a smart economical decision.

The **PCI Carrier** frees the system integrator from the need of a redesign of PCI cards already available to the *CompactPCI*<sup>®</sup> standard. This is a great advantage, especially when time to market is critical, or the number of systems to be built is limited, or the function to be implemented has fast innovation cycles.

Slot 2

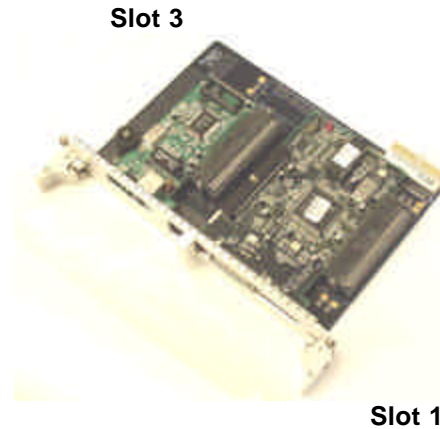


### 6U CompactPCI to PCI Carrier

A major goal to be reached is fastening of the PCI card on the **PCI Carrier** carrier board in a reliable manner, withstanding mechanical shock and vibrations. ***There are cardholder holes installed that can be used to secure the PCI card against loosening in case of vibrations.***

PCI cards up to 160x106mm can be inserted into slot 1. Using this slot, the bracket of the PCI board is fixed directly behind the **PCI-ADAPTER** double width front panel. The majority of the commercially available PCI boards (e.g. graphics-, Ethernet-, SCSI-boards) can be fitted in slot 1.

The PCI specification, however, defines a maximum length of 174.63mm. This size exceeds the Eurocard standard depth (160mm). Longer PCI boards therefore must use slot 2 of the **PCI Carrier**. When using slot 2, connecting the PCI card I/O connectors to the **PCI Carrier** front panel has to be done by means of suitable cabling sets and mounting brackets. The maximum length for cards using slot 2 is 185mm.



### 6U CompactPCI to PCI Adapter – Slot 1 and 3 configuration

Optionally slot 3 can be added with slot 1 and allows a 160x80mm card to be inserted. Both Slot 1 and Slot 3 can then be used simultaneously in this configuration for smaller PCI cards.

#### **Ordering**

PCI_300.115.1	6U CompactPCI to PCI Carrier w/ PCI connector 1
PCI_300.115.2	6U CompactPCI to PCI Carrier w/ PCI connector 2
PCI_300.115.3	6U CompactPCI to PCI Carrier w/ PCI connector 3&1

#### **6U CompactPCI to PCI Carrier Specifications**

- 6U Double-Size-Eurocard (ca. 233x160mm)
- 32-bit PCI bridge with TI @2250 (33 MHz)
- Full plug-and-play support
- Automatic voltage adaptation to 3.3 V / 5 V backplane V(I/O)
- Power Supply (PCI Board Power Consumption not taken into consideration)
  - +5V, 0.2A
  - Vio 0.1A max
  - +12V (required by PCI Board only)
  - -12V (required by PCI Board only)
- Front panel Width 40.3mm
- Connectors: 3-fold 90 degrees, either Slot 1, 2 or 1 and 3
- Maximum Card Size:
  - Slot 1 for Boards up to 160x106mm-I/O externally accessible
  - Slot 2 for full size Boards up to 185mm Length I/O must be cabled
  - Slot 3 up to 160x80mm wide-I/O externally accessible
- Specifications: PCI 2.1, 32-Bit, 33MHz (133MB/s), 3.3V or 5V Interface, PICMG 2.0 R2.1 / R3.0
- Temperature/Humidity
  - Temperature Range 0-60C
  - Relative Humidity Range 5-90% non-condensing
- 2 year limited warranty