



## Description

This low-cost family of CompactPCI adapters enables the use of standard and custom 32-bit based PMC modules in a 3U or 6U CompactPCI system.

## Features

- 3U CompactPCI form factor (100mm high x 160mm deep)
- Custom configure your adapter using an Elma PMC module
- Extended temperature operation; -40°C to +85°C
- Accepts standard PMC I/O connector through the CPCI front panel
- Optional 6U high front panel
- Only one slot (3U x 4HP) required
- 32-bit 3U CPCI available with or without J2 for user rear I/O lines
- 64 user I/O lines routed via rear to CPCI connector (models 7000-2 and 7000-4)
- 2 Status LEDs:
  - IRQ Request from PMC
  - PMC Bus Master
- High quality, multilayer design: 4 power planes, GND, 3.3V, 5V VIO, 4 signal layers
- Adapters can be used with 64-bit CPCI backplanes at 32-bit PCI operation only

## PMC Module Features and Related Products

### Communications

Choose a communications PMC module from our complete line of modules supporting gigabit Ethernet, SCSI and serial communications interfaces including RS232, 422 and 485 plus others.

### Storage

Choose a storage PMC module that suits your specific requirements. Elma storage modules support high capacity SSD and rotating drives as well as CompactFlash. Storage modules are also available with special features including front removability, secure erasure and write protection.

### Audio/Video

Combine your 7000 carrier with an audio or video PMC.

### FPGA based configurable I/O

Maximize your I/O options with Elma's configurable FPGA mezzanine carriers and select the FPGA core that fits your I/O requirements.

### NOTE:

New modules are always being added, and custom modules can be designed within a relatively short time frame. Some PMCs may not be suitable for -40°C to +85°C operation. Please call us for more details.

### Example Order Number: CPC17000-2-8075

CPCI PMC Adapter for 32-bit CPCI backplane with RS232 PMC Module mounted on the Adapter



- Intel & Freescale Single Board Computers
- Blade level networking boards (Ethernet, PCI Express)
- FPGA configurable I/O solutions
- Rackmount, desktop, and ATR chassis platforms
- Ruggedization programs

**CPCI**

# 3U CompactPCI Adapters for PMC Modules



I/O



PICMG

## 7000 Model Numbers and Description:

Part#	J2 Ctr Rear I/O	Front Panel Height	Adaptor Alignment
7000-1	No	3U	-
7000-2	Yes	3U	-
7000-3	No	6U	Bottom
7000-4	Yes	6U	Bottom

### Version

#### Rear I/O only

### Description / Function

Versions -1 & -3. For use in systems using 32- or 64-bit CompactPCI backplanes. The Adapter will operate with 64-bit backplanes but only at 32-bit. This version does not support rear I/O (J1 only installed) - I/O must be brought out via the front panel.

#### Front and/or Rear I/O

Versions -2 and -4. For use in systems using 32-bit CompactPCI backplanes. This version allows PMC user I/O to be passed through the backplane via the J2 connector.

## Ordering Information

### Add a PMC Module:

Build an I/O assembly that fits your requirements. Use the following part number to create a PMC to 3U CPC Adapter carrying the PMC module of your choice:

**CPCI7000-V-xxxx**

**V = Version**  
see table above

**PMC Module**  
xxxx = first 4 digits of  
PMC Part Number