

# CompactPCI® Plus Rack - 8 Slots Single Euro Hybrid



- 19" rack-mountable
- IEEE 1101.10/11 compliance
- 4U / 84 HP system (incl. 1U fan tray)
- 8-slot hybrid backplane
- 4 CompactPCI® Plus (PICMG CPLUS.0) peripheral slots to the right
- 4 CompactPCI® (PICMG 2.0, 2.30) slots to the left
- All slots prepared for rear I/O
- 250 W Plug-in PSU 90..264 VAC
- 44HP space for individual extensions
- For MEN SBCs F12N, F13, F14, F15, F17, F18, F19P, F50P

This compact 4U rack-mount enclosure is a basic system that allows the configuration with both CompactPCI® Plus and CompactPCI® cards. Being a hybrid system, it offers an uncomplicated and cost-effective migration solution from parallel 3U CompactPCI® to serial CompactPCI® Plus.

The 8-slot hybrid backplane in this configuration does not need a bridge or an active logic. The four slots on the left are designed for 32-bit CompactPCI® and rear I/O on P2. The four slots on the right are reserved for CompactPCI® Plus. The CompactPCI® PlusIO system slot is the fourth slot from the left. Either a standard CompactPCI® 2.0 or a PICMG 2.30 CompactPCI® PlusIO CPU board can be used in this slot. The CompactPCI® Plus slots on the right can only be used with a CompactPCI® PlusIO board, however.

This hybrid system is designed for use with the MEN system-slot SBCs F12N, F13, F14, F15, F17, F18, F19P

and F50P. Only F19P and F50P support CompactPCI® Plus. That way, the three remaining slots on the CompactPCI® bus and the four CompactPCI® Plus slots can be used to install additional I/O functions.

While the serial CompactPCI® Plus slots on the right are best suited for functions like Gigabit Ethernet, 10 Gigabit Ethernet or high end graphic with high data rate requirements, the parallel CompactPCI® bus delivers enough performance for all kinds of conventional I/O like binary or analog signals. In addition, the system offers space for mass storage devices.

A 8HP plug-in 250W power supply unit which is accessible at the back of the system is already included and wired.

The enclosure meets EMC requirements, making it a perfect choice for embedded applications in harsh environments.

Ask us for completely configured, wired and tested systems!

## Technical Data

### General System Characteristics

- Compliance with IEC 60 297-3, IEEE 1101.10
- 8 slots for 3U Eurocard boards (4 CompactPCI® Plus slots)

### Mechanical Specifications

- 19" rack-mount standard
- 3U card vertical
- Dimensions: 3U, 84HP, 278mm depth
- Weight: tbd.

### CompactPCI®/CompactPCI® Plus Backplane

- 8-slot
- CompactPCI® PlusIO System slot on the fourth slot from the left
  - Support of four CompactPCI® Plus peripheral slots
- Three CompactPCI® peripheral slots
- Four CompactPCI® Plus peripheral slots

### Power Supply

- Plug-in power supply
  - 3U/8HP
  - 250W
  - 90V..264V AC wide range
  - 3.3 V/40A, 5 V/40A, 12V/5.5A, -12 V/2A
  - 3U power backplane with P47 receptacle
  - 3U power input module with IEC input, fuse holder, line filter and power switch
- Power connector and power-on switch at the back

### 1U fan chassis

- Two vertical fans
  - 12V
  - Air flow volume 140 m<sup>3</sup>/h (manufacturer's data)
  - Dimensions 119 x 119 x 32 mm
  - Sound pressure level 39 dB(A)

### Environmental Specifications

- Temperature range (operation):
  - 0..+50°C
- Temperature range (storage):
  - -40..+85°C
  - Power supply: -20..+65°C without derating
- Relative humidity (operation): max. 95% non-condensing
- Relative humidity (storage): max. 95% non-condensing
- Altitude: -300m to + 3,000m
- Shock: 15g/11ms
- Bump: 10g/16ms
- Vibration (sinusoidal): 2g/10..150Hz

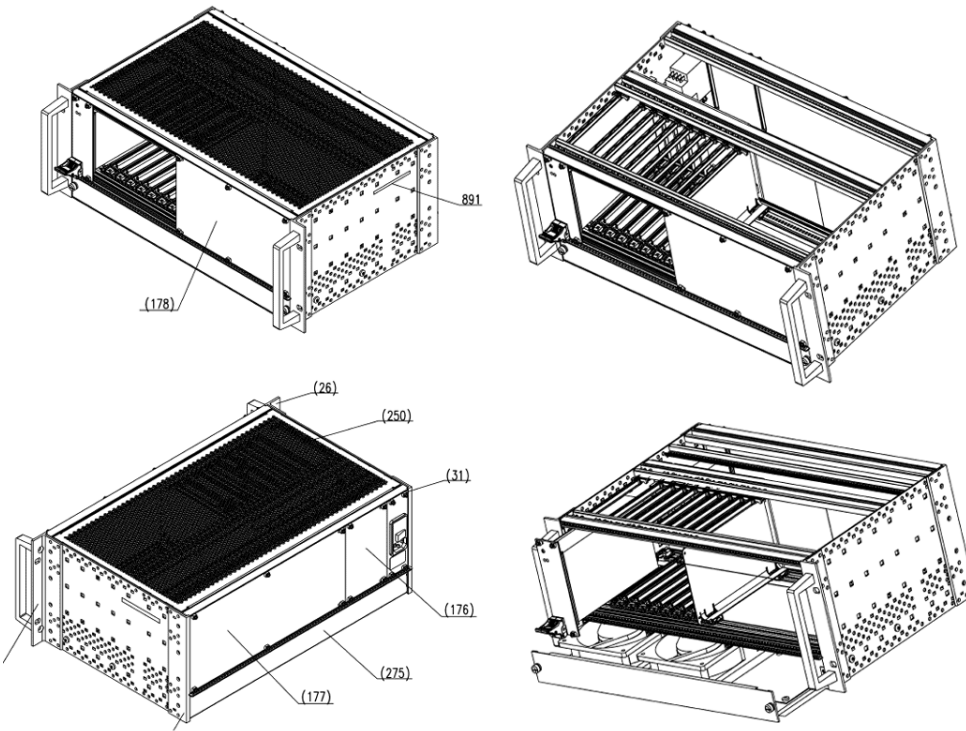
### EMC

- Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)

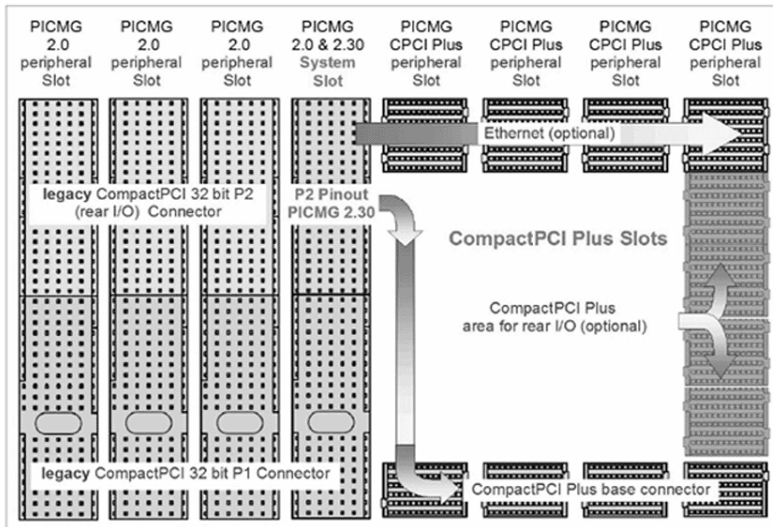
### Suited for MEN Boards...

- F12N - CompactPCI® MPC5200B SBC
- F13 - CompactPCI® MPC8540 SBC
- F14 - CompactPCI® Pentium® M SBC
- F15 - CompactPCI® Core Duo SBC
- F17 - CompactPCI® Core 2 Duo SBC
- F18 - CompactPCI® Core 2 Duo SBC
- F19P - CompactPCI® PlusIO Core 2 Duo SBC
- F50P - CompactPCI® PlusIO MPC8548 SBC

Diagram



Backplane



## Ordering Information

### Standard Hardware

**0701-0056** CompactPCI/CompactPCI Plus 19" 4U/84HP rack-mount enclosure for 3U cards (vertical), 4+4-slot 3U CompactPCI / CompactPCI Plus hybrid backplane, prepared for rear I/O, 250W power supply wide range 90..264VAC on rear, 1U fan tray with 2 fans included, 0..+60°C

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the CompactPCI® Plus Rack online data sheet under » [www.men.de](http://www.men.de).

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