

CPCI Express® 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
- Dual system slot in the middle
- 3 cPCI Express® peripheral slots to the right
- 3 cPCI peripheral slots to the left
- cPCI slots prepared for rear I/O
- Space for mass storage devices
- 300 W ATX power supply
- For MEN SBCs F14, F15, F17, F18

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

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® Express. The dual CompactPCI® Express system slot is situated in the middle of the backplane and is designed as a 4-link-configuration. Three peripheral slots are accessed with 4 links x 1 lane each. While two of the peripheral slots are accessed with 1 link x1, a third slot is accessed with 2 links x1.

This hybrid system is designed for use with the MEN system-slot SBCs F14, F15, F17 and F18 in combination with the side card F602. This specific side card connects to the CompactPCI® Express side, while the

SBCs are plugged on the CompactPCI® side of the system.

That way, the three remaining slots on the CompactPCI® bus and another three slots on the CompactPCI® Express bus can be used to install additional I/O functions.

While the serial CompactPCI® Express bus on the right is 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.

For optimum convenience the system is prepared for essential mass storage media: the 3U bay can accommodate several hard disk drives available from MEN. A 300W ATX wide-range power supply unit which is accessible from the front 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 slots with rear I/O)

Mechanical Specifications

- 19" rack-mount standard
- 3U card vertical
- 3U/12HP bay for hard disk drives
- Dimensions: 3U, 84HP, 278mm depth
- Weight: 8kg (empty rack without boards)

CompactPCI®/CompactPCI® Express Backplane

- 8-slot
- CompactPCI® System slot on the fourth slot from the left
- Three CompactPCI® peripheral slots
- CompactPCI® Express System slot on the fourth slot from the right
 - Support of four CompactPCI® Express links
- Three CompactPCI® Express peripheral slots
 - One slot with CompactPCI® Express peripheral slot Type 1
 - Two slots with CompactPCI® Express peripheral slot Type 2

Power Supply

- PC power supply PS/2
 - 3U/32HP
 - ATX-PSU 300W
 - 90V..264V AC wide range
 - 3,3 V/28 A, 5 V/30 A, 12 V/15 A, -12 V/0,8 A
 - Internal 12 VDE fan (ball bearing)
 - IEC AC input module with socket
 - 47..63Hz
 - Agency-approved: CE, UL Recognized Component mark
- Front-panel power connectors
- Front-panel power-on switch

1U fan chassis

- Two vertical fans
 - 12V
 - Air flow volume 204 m³/h (manufacturer's data)
 - Dimensions 119 x 119 x 32 mm
 - Sound power level 6.4 Bel

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

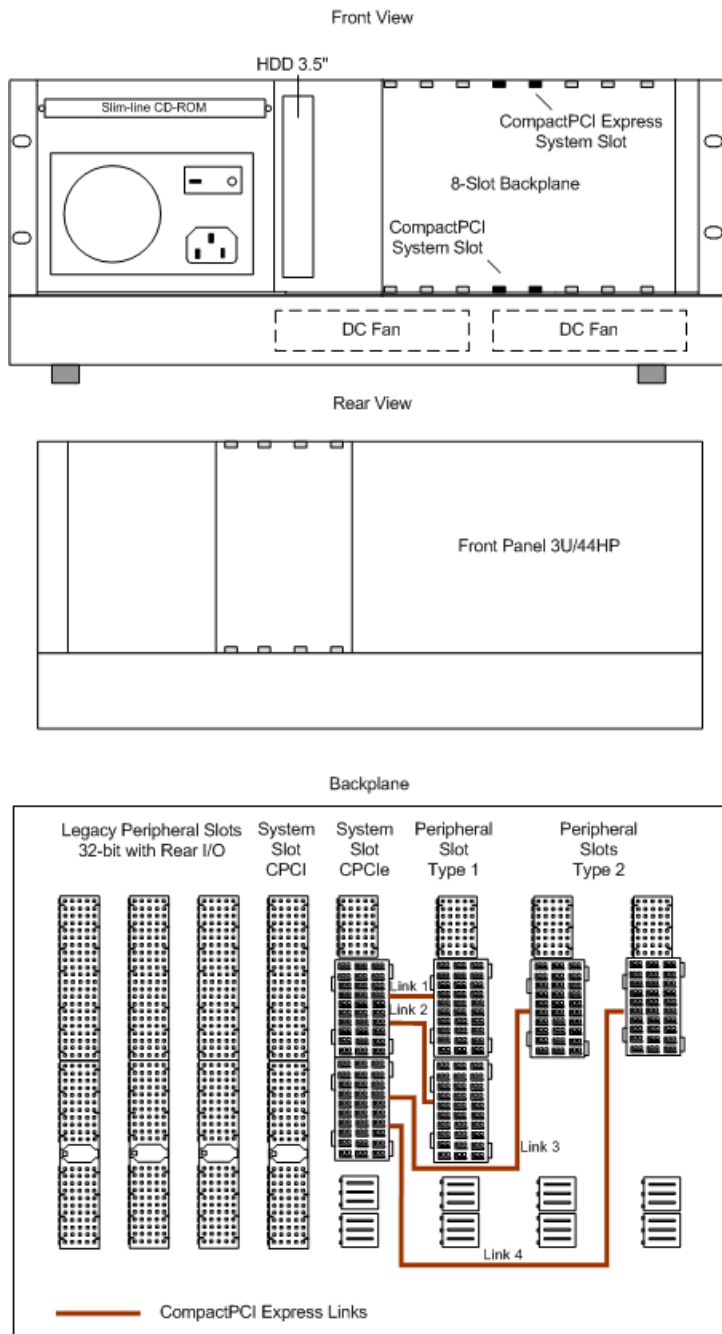
EMC

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

Suited for MEN Boards...

- F14
- F15
- F17
- F18

Diagram



Ordering Information

Standard Hardware

0701-0041 19" 4U/84HP CompactPCI Express rack-mount enclosure, 8-slot hybrid backplane, space for hard-disk drives, CD-ROM drive, 300W ATX PSU, 1U fan tray with 2 fans included

Miscellaneous

0710-0002 CD ROM (laptop type) drive incl. mounting and mounting material

0710-0005 3.5" IDE hard disk drive incl. mounting material, usual market capacity

0714-0005 Cooling baffle for 3U, 4HP 160mm deep

0714-0009 Filler panel 3U/4HP, IEEE1101, textile gasket

0780-0001 Power cable with power connector/safety plug, 2m

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the CPCI Express® Rack online data sheet under » www.men.de.

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