

D203 - 6U CompactPCI/PXI Carrier Board for M-Modules



- ◆ 1 CompactPCI bus slot
- ◆ 1 PXI slot
- ◆ 4 M-Module slots
- ◆ Full PXI trigger support
- ◆ Flexible PXI trigger routing

The D203 is a 6U M-Module carrier board for universal I/O on the CompactPCI bus as well as on PXI for automated testing requirements. It allows high flexibility in applications such as data acquisition or process control. The D203 supports all eight PXI trigger lines as defined in the PXI specification. You can install up to four M-Modules on the D203, which needs only one slot on the CompactPCI bus or

alternatively on the PXI bus. All M-Modules are screwed tightly on the board and require no separately mounted transition panel.

The D203 offers developers immediate access to more than 70 different M-Modules for I/O in fields such as process I/O, measurement, instrumentation, motion control, communication, and development.

Technical Data

CompactPCI Bus

- Compliance with CompactPCI Specification 2.0 R2.1
- Only one slot required on the 6U CompactPCI bus
- FPGA-based PCI-to-M-Module bridge
 - Target on PCI bus
 - Max. clock frequency 33MHz
- Compliance with PCI Specification 2.2
- 32-bit PCI data bus
- V(I/O): +5V (+3.3V on request)

M-Modules

- Up to four M-Modules on one board
- One pass-thru window per module
- M-Module compliance: D08, D16, A08, INTA, TRIGI, TRIGO

PXI

- Eight trigger lines compliant with PXI Specification
- Routing of PXI trigger lines to M-Module interface TRIGA, TRIGB

Peripheral Connections

- Via front panel
- Via CompactPCI J4/J5

Electrical Specifications

- Supply voltage/power consumption:
 - +5V (4.85V..5.25V), 20mA typ.
 - +3.3V (3.0V..3.6V), 20mA typ.
- MTBF: 470,000h @ 50°C

Mechanical Specifications

- Dimensions: conforming to CompactPCI specification for 6U boards
- Front panel: aluminum with 2 handles, cut-outs for front connectors of 4 M-Modules
- Weight: 260g

Environmental Specifications

- Temperature range (operation):
 - 0..+60°C or -40..+85°C
 - Airflow: min. 10m³/h
- Temperature range (storage): -40..+85°C
- Relative humidity range (operation): max. 95% non-condensing
- Relative humidity range (storage): max. 95% non-condensing
- Altitude: -300m to + 3,000m
- Shock: 15g/0.33ms, 6g/6ms
- Vibration: 1g/5..2,000Hz

Safety

- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

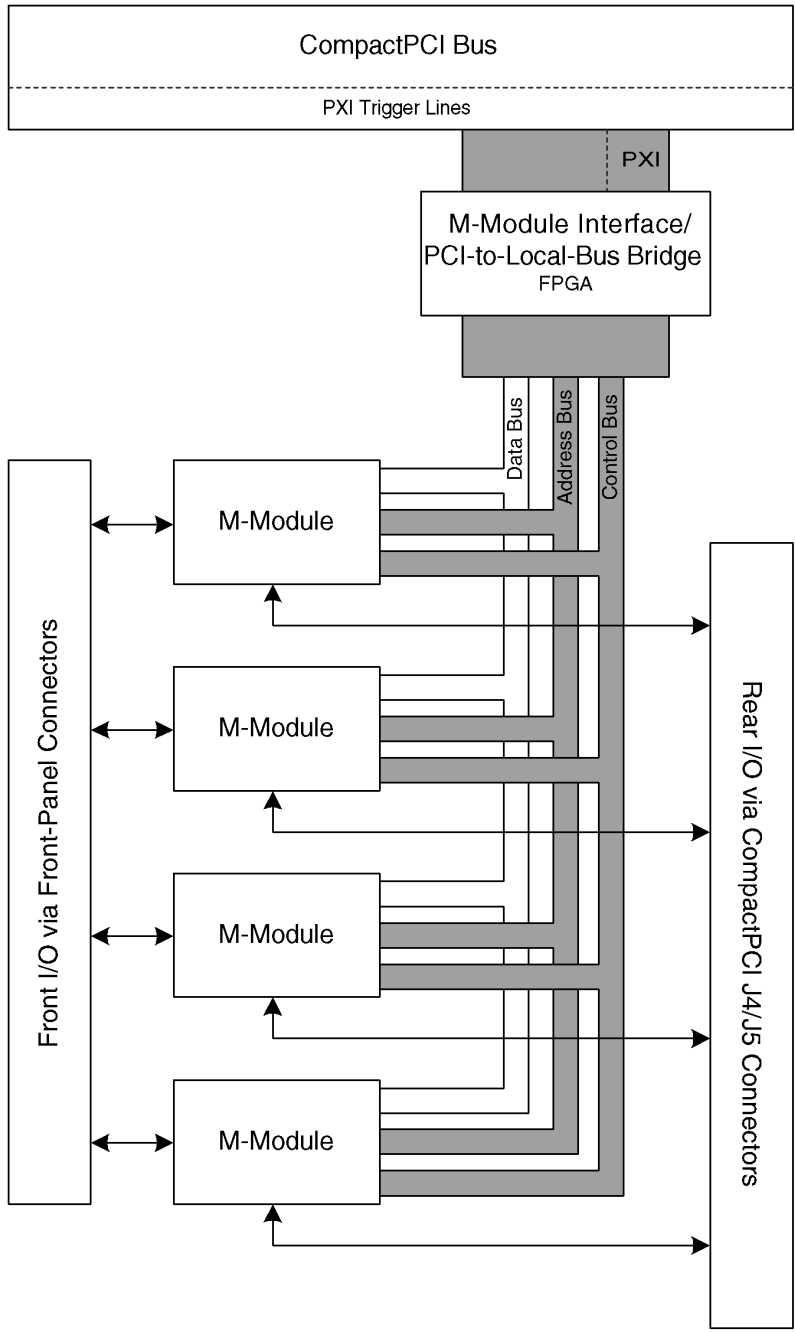
EMC

- Tested according to EN 55022 / 1999-05 (radio disturbance) and EN 55024 / 1999-05 (immunity) with regard to CE conformity

Software Support

- M-Module drivers for Windows, VxWorks, Linux, OS-9, RTX as supported

Diagram



Related Products

Standard Hardware

02D203-00	D203, CompactPCI/PXI 6U, carrier board for 4 M-Modules (with J4/J5), temperature 0..+60°C
02D203-01	D203, CompactPCI/PXI 6U, carrier board for 4 M-Modules (with J4/J5), temperature -40..+85°C
02D203-02	D203, CompactPCI/PXI 6U, carrier board for 4 M-Modules, without J4/J5, temperature 0..+60°C
02D203-03	D203, CompactPCI/PXI 6U, carrier board for 4 M-Modules, without J4/J5, temperature -40..+85°C

Accessories

05M000-15	Front-panel cover for M-Module cut-outs at front panels, snap-in, 10 pcs
05M000-17	25 mounting screw sets to fix M-Modules on carrier boards

Software

Driver software for Windows, Linux, VxWorks, QNX, RTX and OS-9 is available for the different M-Modules. Please refer to the M-Module/s of your choice for information and download.

Documentation

20APPN001	Application Note: Using MEN +5V CompactPCI Boards with +3.3V V(I/O)
20D203-00	D203 user manual

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the D203 online data sheet under www.men.de. --> [Click here!](#)

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