

F202 - 3U CompactPCI/PXI Carrier Board for M-Modules



- ◆ **1 CompactPCI bus slot**
- ◆ **1 PXI slot**
- ◆ **2 M-Module slots**
- ◆ **Flexible PXI trigger routing**

The F202 is a 3U 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 F202 is slightly higher than standard 3U format, providing enough space for two M-Modules while staying compatible with CompactPCI or PXI racks through

special guide rails already included in the delivery. M-Modules are screwed tightly on the carrier and require no separately mounted transition panel. MEN's F202 offers CompactPCI and PXI developers instant 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 Spec. 2.0 R2.1
- Only one slot required on 3U CompactPCI bus
- PCI 9050 controller
 - Target on PCI bus
 - 5V signaling voltage (VIO)
 - Max. clock frequency 33MHz
 - Power supply 5V
- Compliance with PCI Specification 2.1
- 32-bit PCI data bus
- V(I/O): +5V

M-Modules

- F201: one M-Module slot on the board
- F202: two M-Module slots on the board
- Characteristics: D08, D16, D32, A08, A24, INTA, TRIGI, TRIGO

PXI

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

Peripheral Connections

- Via front panel

Electrical Specifications

- Supply voltage/power consumption: +5V (4.85V..5.25V), 400mA typ. (without M-Modules)
- MTBF: 52,000h @ 50°C

Mechanical Specifications

- F201:
 - Dimensions: conforming to CompactPCI specification for 3U boards
 - Front panel: aluminum with 1 handle, cut-out for front connector of M-Module
 - Weight: 134g (without M-Modules)
- F202:
 - Dimensions: 111.7mm x 160mm standard
 - Front panel: aluminum without handles, cut-outs for front connectors of 2 M-Modules
 - Weight: 122g (without M-Modules)

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

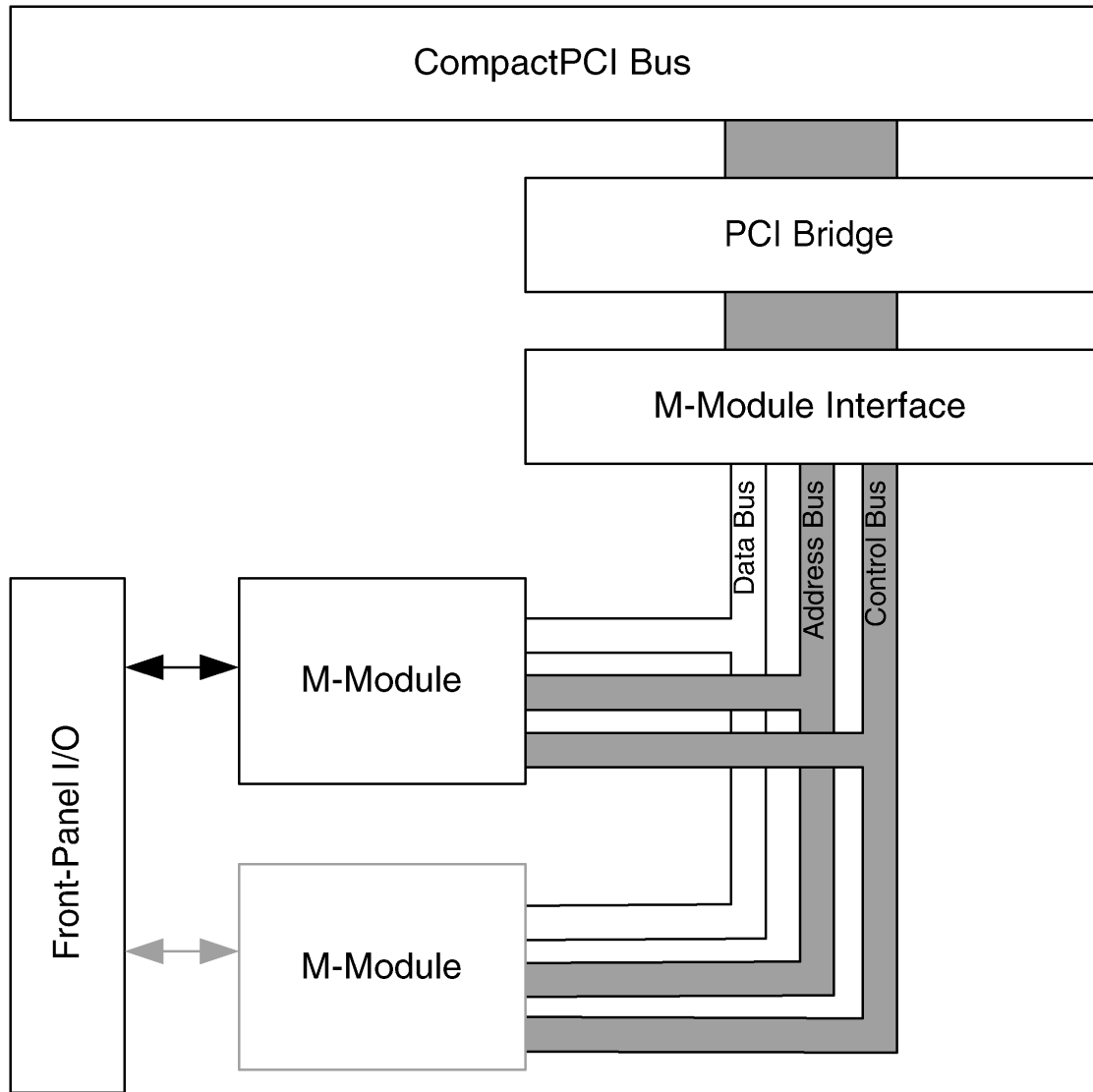
EMC

- 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

02F202-00	F202, CompactPCI 3U, M-Module carrier board for 2 M-Modules
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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

20F201-00	F201/F202 user manual
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For the most up-to-date ordering information and direct links to other data sheets and downloads, see the F202 online data sheet under www.men.de. --> [Click here!](#)

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