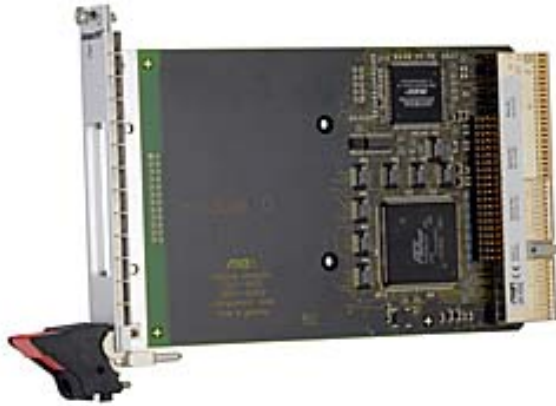


F201 - 3U CompactPCI/PXI Carrier Board for M-Modules



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

The F201 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.

M-Modules are screwed tightly on the carrier and

require no separately mounted transition panel. MEN's F201 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

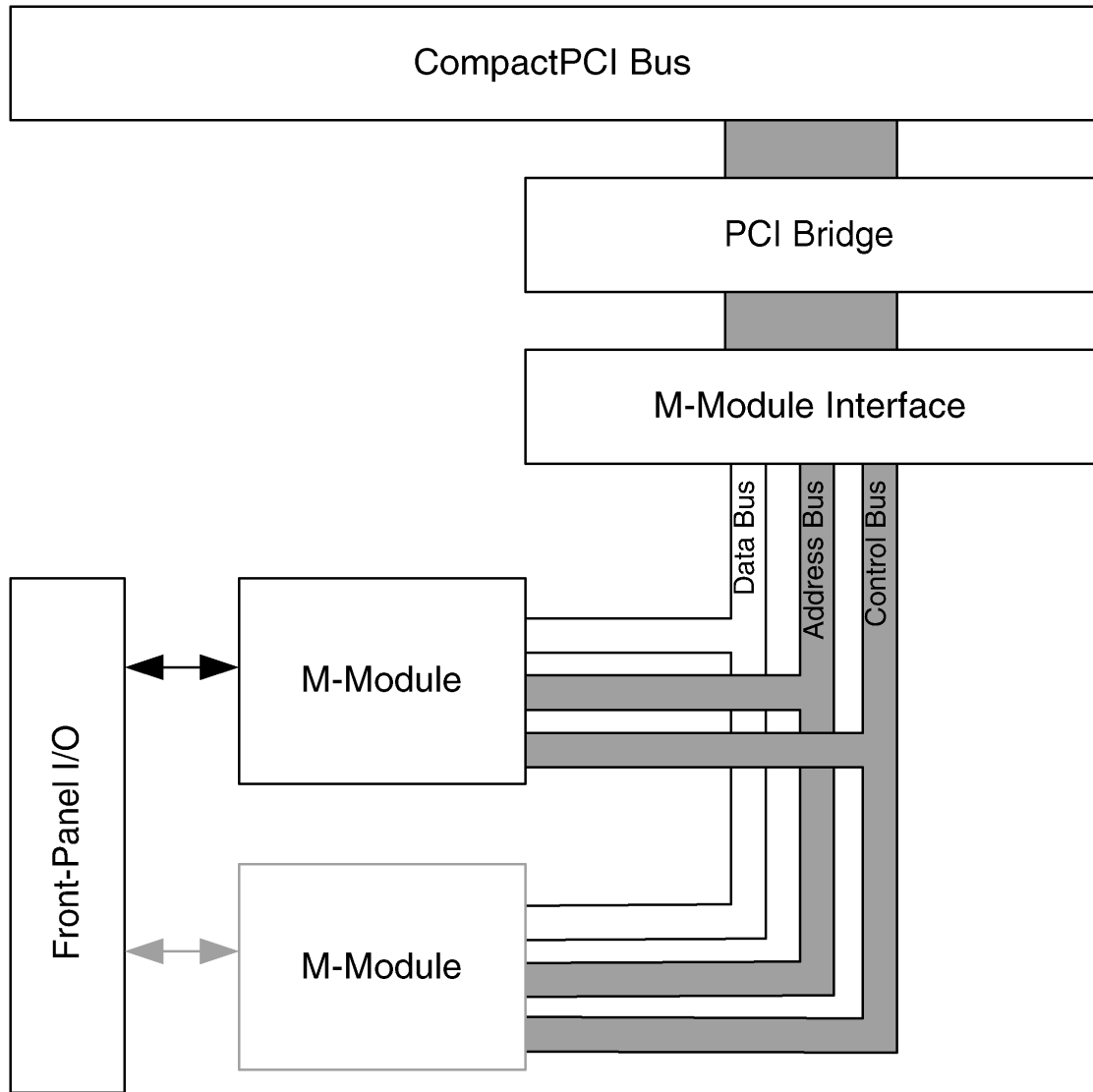
EMC

- 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

02F201-00	F201, CPCI 3U, M-Module carrier board for 1 M-Module
02F201-01	F201, CPCI 3U 4HP, M-Module carrier board for 1 M-Module, temperature range: -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

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 F201 online data sheet under www.men.de. --> Click here!

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