

# D201 - 6U CompactPCI Carrier Board for M-Modules



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

The D201 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.

You can install up to four M-Modules on the D201, 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 D201 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
- PCI 9050 controller
  - Target on PCI bus
  - Max. clock frequency 33MHz
  - Power supply 5V
- Compliance with PCI Specification 2.1
- 32-bit PCI data bus
- V(I/O): +3.3V or +5V (Universal Board)

### M-Modules

- Up to four M-Modules on one board
- One pass-thru window per module
- M-Module compliance: 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
- Via CompactPCI J4/J5

### Electrical Specifications

- Supply voltage/power consumption: +5V (4.85V..5.25V), 400mA typ.
- MTBF: 52,000h @ 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: 272g

### Environmental Specifications

- Temperature range (operation):
  - 0..+60°C
  - Industrial temperature range on request
  - Airflow: min. 10m<sup>3</sup>/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: 1.5g/0.33ms, 6g/6ms
- Vibration: 1g/5..2,000Hz

### Safety

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

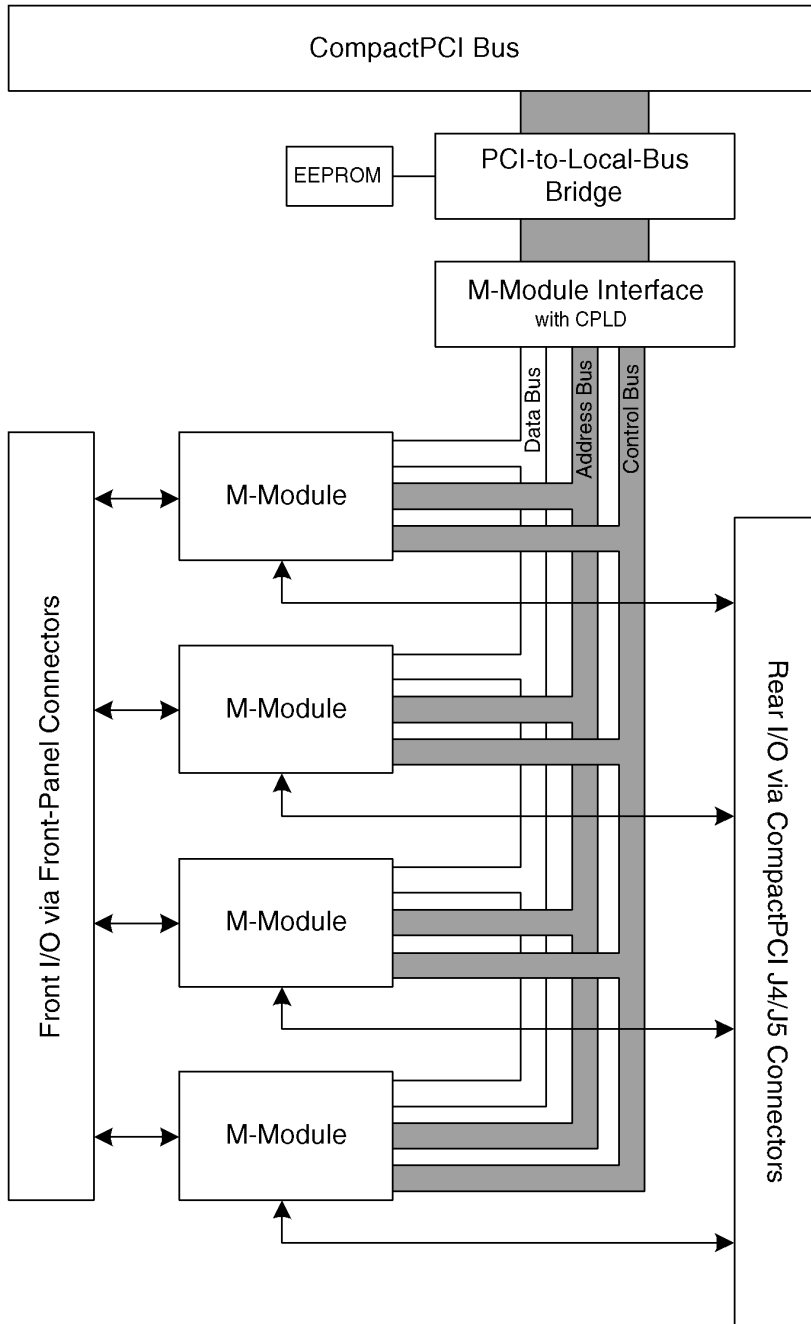
### EMC

- 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

02D201-00	D201, CompactPCI 6U, carrier board for 4 M-Modules (with J4/J5)
02D201-01	D201, CompactPCI 6U, carrier board for 4 M-Modules (w/o J4/J5)

### 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

20D201-00	D201 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 D201 online data sheet under [www.men.de](http://www.men.de). --> [Click here!](#)*

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