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Find the *MEN Micro / Mikro Elektronik F205* at our website: *Click HERE*

Embedded Solutions

F205 - 3U CompactPCI®/PXI™ M-Modules™ Carrier Board



- **1 CompactPCI® bus slot**
- **2 M-Module™ slots**
- **Flexible PXI™ trigger routing**
- **-40 to +85°C versions with qualified components**

The F205 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 F205 supports all eight PXI™ trigger lines as defined in the PXI™ specification.
The F205 is slightly higher than standard 3U format, providing enough space for two M-Modules™ while staying compatible with CompactPCI® or PXI™ housings through special guide rails already included in the delivery. M-Modules™ are screwed tightly on the board and require no separately mounted transition panel.
The F205 offers 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.

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Technical Data

M-Module™ Slots
- Two M-Module™ slots
- Compliant with M-Module™ standard
- Characteristics: A08, A24, D08, D16, D32, INTA, TRIGI, TRIGO

Peripheral Connections
- Via front panel

CompactPCI® Bus
- Compliance with CompactPCI® Specification 2.0 R2.1
- Only one slot required on the 3U CompactPCI® bus
- 32-bit/33-MHz PCI-to-M-Module™ bridge
  - FPGA-based
  - Compliant with PCI Specification 2.2
  - Target on PCI bus
- V(I/O): +5V (+3.3V on request)

PXI™
- Eight trigger lines compliant with PXI™ Specification R1.0
- Routing of PXI™ trigger lines to M-Module™ interface TRIGA, TRIGB

Electrical Specifications
- Supply voltage/power consumption:
  - +5V (-3%/+5%), 20mA typ.
  - +3.3V (-3%/+5%), 20mA typ.
- MTBF: 1,046,000h @ 50°C (derived from MIL-HDBK-217F)

Mechanical Specifications
- Dimensions: 111.7mm x 160mm standard
- Front panel: aluminum without handles, cut-outs for front connectors of 2 M-Modules™
- Weight: 125g (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 (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
- Conformal coating on request

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

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

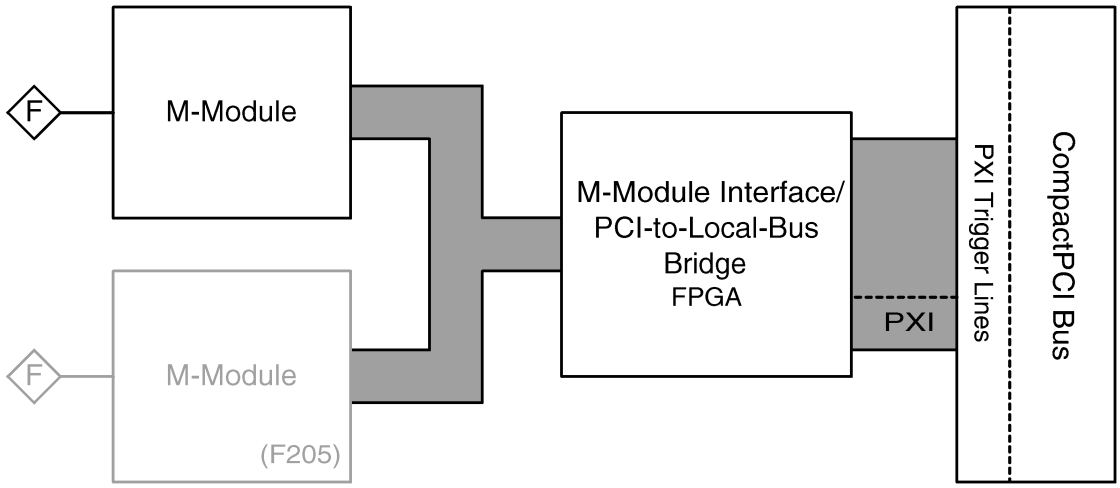
Software Support
- M-Module™ drivers for Windows®, VxWorks®, Linux, QNX®, OS-9® as supported

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Diagram



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Configuration & Options

Standard Configurations

Article No.	M-Module™ Slots	M-Module™ Characteristics	Operation Temperature
02F204-00	1	A08/D16	0..+60°C
02F204-01	1	A08/D16	-40..+85°C
02F204-02	1	A24/D32	-40..+85°C
02F205-00	2	A08/D16	0..+60°C
02F205-01	2	A08/D16	-40..+85°C
02F205-05	2	A24/D32	-40..+85°C

Options

M-Module™ Slots
- 1 or 2

M-Module™ Characteristics
- A08/D16 or A24/D32 support

Operation Temperature
- 0..+60°C
- -40..+85°C

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Ordering Information

Standard Hardware

02F205-00	M-Module™ carrier board for 2 M-Modules™, 0...+60°C
02F205-01	M-Module™ carrier board for 2 M-Modules™, -40..+85°C screened
02F205-05	M-Module™ carrier board, 2 slots, A24 access, -40...+85°C qualified

Miscellaneous

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

Documentation

20APPN001	Application Note: Using MEN +5V CompactPCI® Boards with +3.3V V(I/O)
20F204-00	F204/F205 User Manual

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the F205 online data sheet under » www.men.de.

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