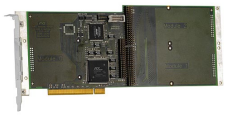
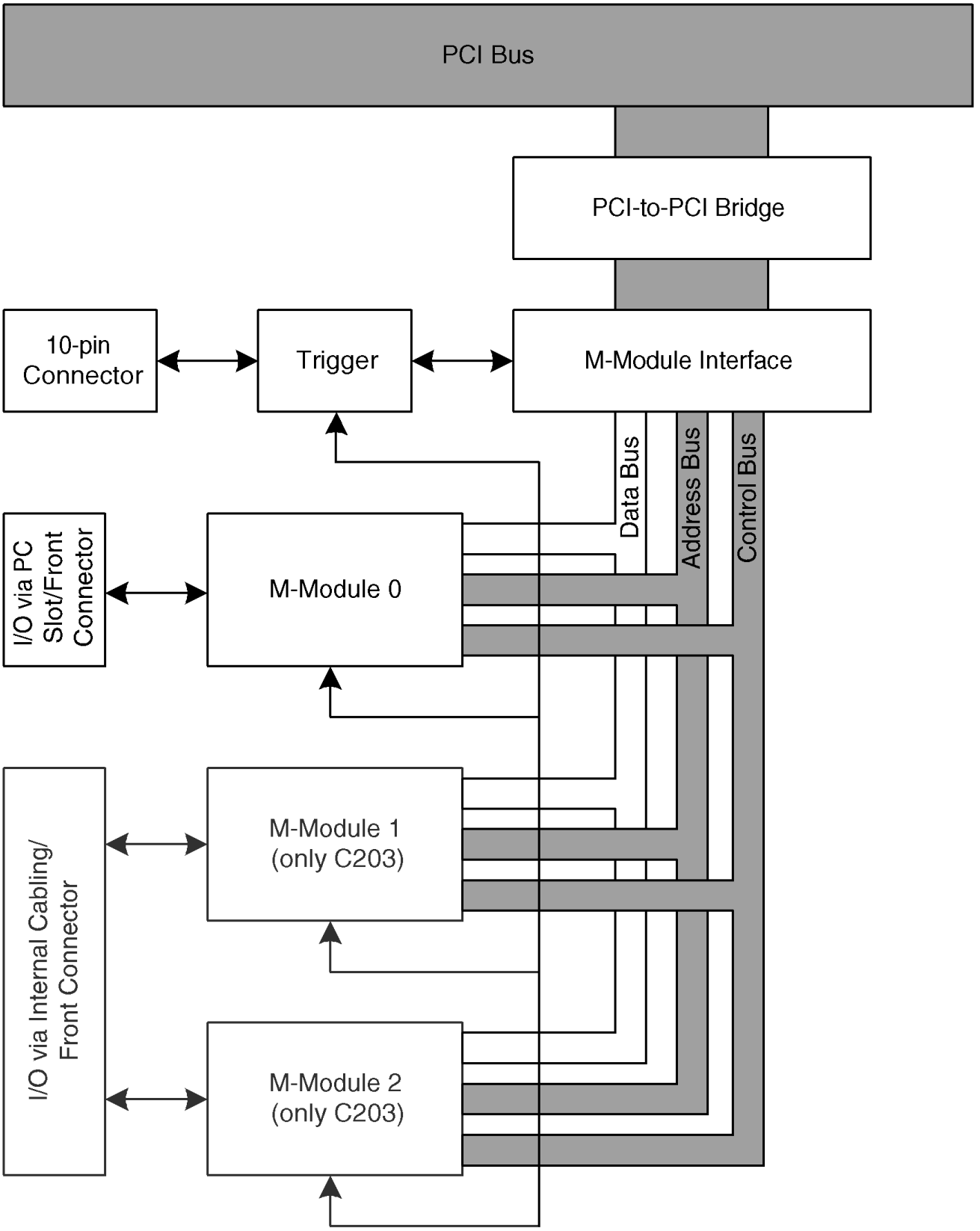
C203 – PCI M-Module™ Carrier Board

- **3 M-Module™ slots**
- **PCI long card**



The C203 is an M-Module™ carrier board for universal peripheral I/O applications on a desktop PC with PCI interface. The M-Modules™ plugged on the C203 are screwed tightly on the carrier board.
The long-card C203 can carry three M-Modules™.

Diagram


PCI Bus
PCI-to-PCI Bridge
10-pin Connector
Trigger
M-Module Interface
Data Bus
Address Bus
Control Bus
I/O via PC Slot/Front Connector
M-Module 0
I/O via Internal Cabling/ Front Connector
M-Module 1 (only C203)
M-Module 2 (only C203)

Technical Data

PCI Bus	■ Slots required on the PCI bus: □ C203: one long-card slot □ C204: one short-card slot ■ 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
M-Modules™	■ Number of M-Modules™ on one board: □ C203: up to three M-Modules™ □ C204: one M-Module™ ■ One pass-thru window per M-Module™ ■ Characteristics: D08, D16, D32, A08, A24, INTA, TRIGI, TRIGO
Peripheral Connections	■ Via PC slot ■ Via additional PC slot connection cables (C203)
Electrical Specifications	■ Supply voltage/power consumption: +5V (4.85V..5.25V), 200mA typ. ■ MTBF: 52,000h @ 50°C (derived from MIL-HDBK-217F)
Mechanical Specifications	■ Dimensions: □ C203: 296mm by 115.6mm □ C204: 155mm by 106.9mm ■ Weight: □ C203: 144g □ C204: 100g
Environmental Specifications	■ Temperature range (operation): □ 0..+60°C □ Industrial temperature range on request □ 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 ■ Basic board driver included in MDIS™ system package for the respective operating system

Ordering Information

Standard C203 Models	**03C203-00**	C203, PCI M-Module™ carrier board for 3 M-Modules™, long slot version
Miscellaneous Accessories	**05M000-17**	25 mounting screw sets to fix M-Modules™ on carrier boards
Software: Miscellaneous	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. A basic board driver for this carrier card is included in the MDIS™ system package for the respective operating system. You can find an overview of available packages for download under www.men.de/mdis.	
For operating systems not mentioned here contact MEN sales.		
Documentation	**20C203-00**	C203/C204 User Manual

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