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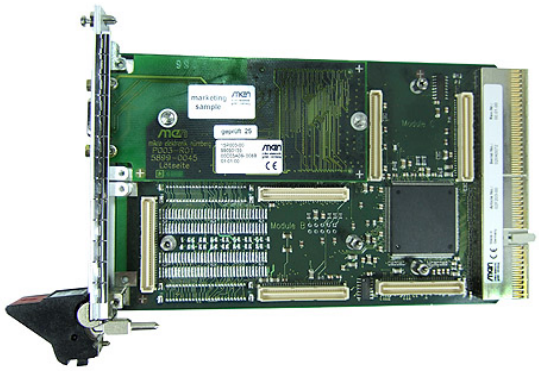
F203 - 3U CompactPCI®
PC-MIP® Carrier Board



- **1 CompactPCI® bus slot**
- **3 PC-MIP® slots**

The F203 is a 3U PC-MIP® carrier board for universal I/O on the CompactPCI® bus. You can install up to three PC-MIPs on the F203, with two Type I/II PC-MIPs and one Type I PC-MIP®.
Two Type II modules or one double PC-MIP® module are accessible at the front panel. Rear I/O via the PC-MIP®'s J3 connectors, however, is not possible for any of the three modules.

Even populated with three PC-MIPs, the F203 needs only one slot on the CompactPCI® bus.
PC-MIPs are an ideal solution for flexible and fast CPU-related applications, which can make advantage out of the internal PCI bus of the PC-MIPs.

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Technical Data

CompactPCI® Bus
- Compliance with CompactPCI® Specification 2.0 R2.1
- Only one slot required on the 3U CompactPCI® bus
- DECchip 21150 PCI-to-PCI bridge
  - Target and/or initiator on PCI bus
  - Max. clock frequency 33MHz
  - Power supply 5V and 3.3V
- Compliance with PCI Specification 2.1
- 32-bit PCI data bus
- V(I/O): +3.3V or +5V (Universal Board)

PC-MIPs
- Up to three PC-MIP® modules on one board
- Support of 1 Type I and 2 Type II modules
- Local 32-bit PCI bus

Peripheral Connections
- Via front panel

Electrical Specifications
- Supply voltage/power consumption:
  - +5V (4.85V..5.25V), 5mA typ.
  - +3.3V (3.2V..3.5V), 150mA typ.
- MTBF: 80,000h @ 50°C (derived from MIL-HDBK-217F)

Mechanical Specifications
- Dimensions: conforming to CompactPCI® specification for 3U boards
- Front panel: aluminum with 1 handle
- Weight: 160g

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
- PC-MIP® drivers for Windows®, VxWorks®, Linux, QNX®, OS-9® as supported

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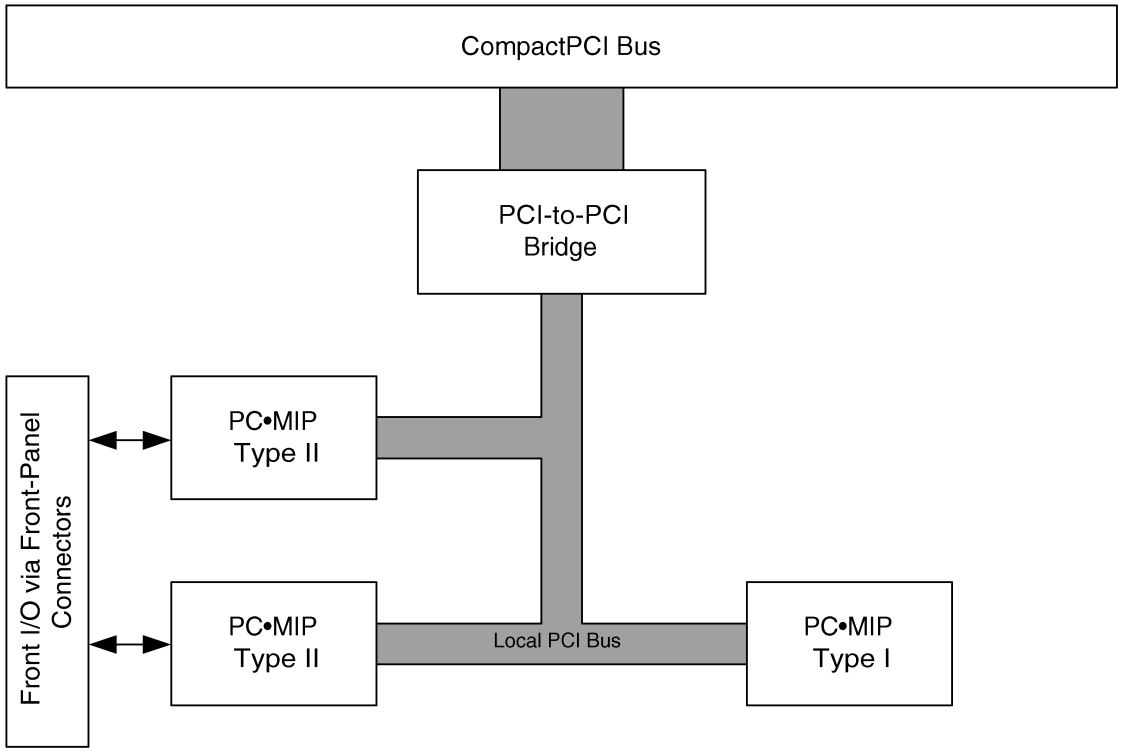
Diagram



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Ordering Information

Standard Hardware

02F203-00 PC-MIP carrier board, 0...+60°C

Documentation

20F203-00 F203 User Manual

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the F203 online data sheet under » www.men.de.

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