G204 – 3U CompactPCI® Serial M-Module Carrier Board

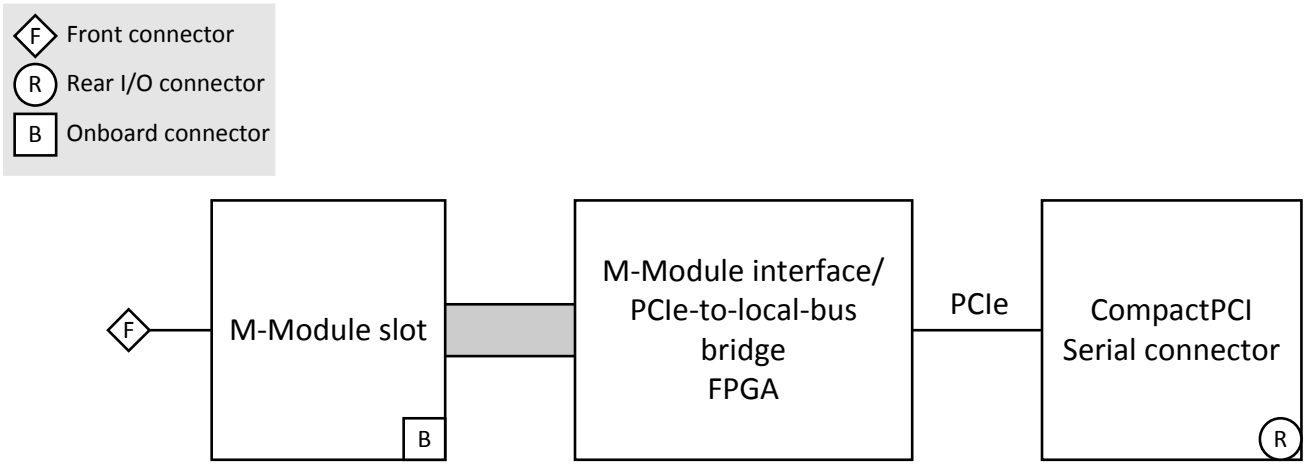
- **1 M-Module slot**
- **-40 to +85°C with qualified components**
- **PICMG CPCI-S.0 CompactPCI® Serial peripheral card**

The G204 is a 3U M-Module carrier board for universal I/O on the CompactPCI® Serial bus. It allows high flexibility in applications such as data acquisition or process control.

One M-Module may be installed on the G204, which needs only one slot on the CompactPCI® Serial bus. M-Modules are screwed tightly on the board and require no separately mounted transition panel.

The G204 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.

Diagram



Technical Data

M-Module Slots	■ One M-Module slot ■ Compliant with M-Module standard ■ Characteristics: A08, A24, D08, D16, D32, INTA, TRIGI, TRIGO
Peripheral Connections	■ Via front panel
CompactPCI® Serial	■ Compliance with CompactPCI® Serial PICMG CPCI-S.0 Specification ■ Peripheral slot ■ 32-bit/33-MHz PCIe®-to-M-Module bridge □ FPGA-based □ Target on PCIe® bus
Electrical Specifications	■ Supply voltage/power consumption: □ +12 V (-5%/+5%), 100 mA typ. (without M-Module)
Mechanical Specifications	■ Dimensions: conforming to CompactPCI® Serial specification for 3U boards ■ Front panel: 4HP with ejector, cut-out for front connector of M-Module ■ Weight: approx. 130 g (without M-Modules)
Environmental Specifications	■ Temperature range (operation): □ -40..+85°C (qualified components) □ Airflow: min. 1.0 m/s ■ Temperature range (storage): -40..+85°C ■ Relative humidity (operation): max. 95% non-condensing ■ Relative humidity (storage): max. 95% non-condensing ■ Altitude: -300 m to +3000 m ■ Shock: 50 m/s², 30 ms (EN 61373) ■ Vibration (function): 1 m/s², 5 Hz - 150 Hz (EN 61373) ■ Vibration (lifetime): 7.9 m/s², 5 Hz - 150 Hz (EN 61373) ■ Conformal coating on request
MTBF	■ 2 177 300 h @ 40°C according to IEC/TR 62380 (RDF 2000)
Safety	■ Flammability □ PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers
EMC Conformity	■ EN 55022 (radio disturbance) ■ IEC 61000-4-2 (ESD) ■ IEC 61000-4-3 (electromagnetic field immunity) ■ IEC 61000-4-6 (conducted disturbances)
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

Configuration & Options

Options

Cooling Concept	■ Also available with conduction cooling in MEN CCA frame

Please note that some of these options may only be available for large volumes. Please ask our sales staff for more information.

Ordering Information

Standard G204 Models	**02G204-00**	G204, 3U CompactPCI® Serial (CPCI-S.0) M-Module Carrier, -40..+85°C screened
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	Compare Chart 3U CompactPCI® Serial CPU and I/O cards » Download	
	20G204-00	G204 User Manual

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