

F209 – 3U CompactPCI® PC Card Carrier (WLAN/GSM/Modem)

- 4 HP 32-bit/33-MHz CompactPCI®
- CardBus (32-bit)
- PCMCIA/PC Card (16-bit)
- Type I, II and III support
- Up to 2 PC Cards at front
- -40 to +85°C screened



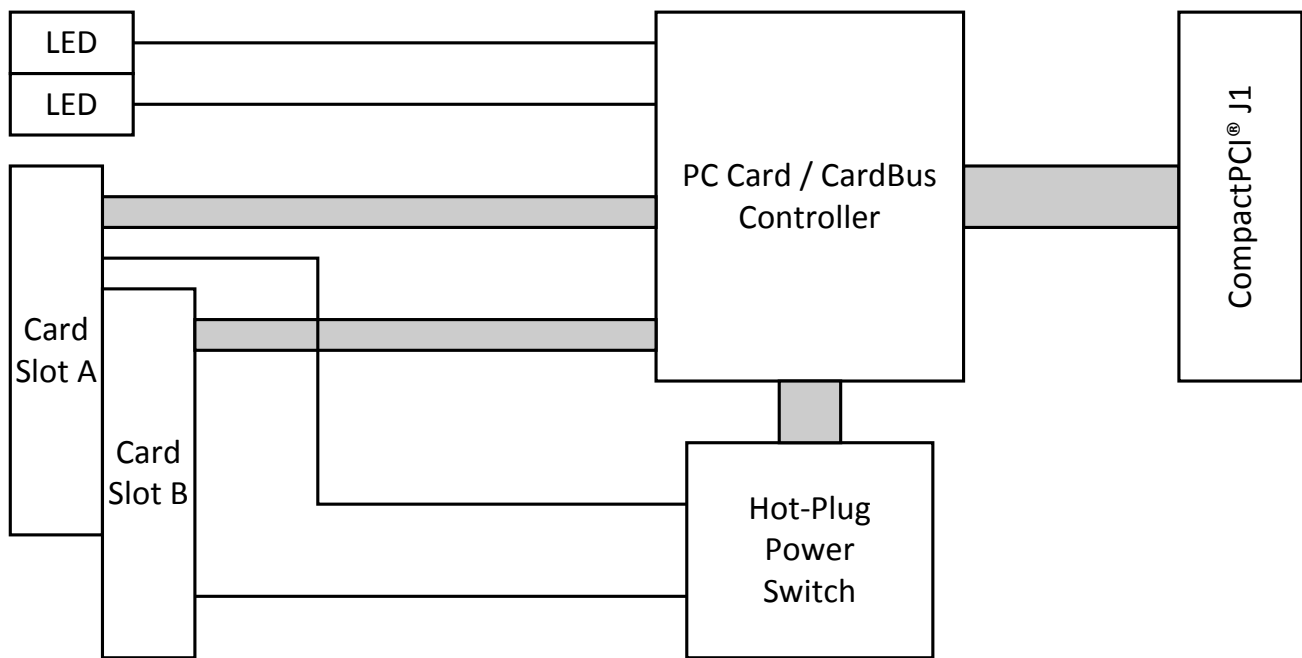
The F209 is a rugged single Eurocard CompactPCI® carrier board supporting the PCMCIA/PC Card and the subsequent CardBus standards with all card sizes Type I, II and III. It offers two PC Card slots Type I or II at its front panel (or one slot for Type III), needing only one slot on the CompactPCI® bus.

Using standard PC cards that give access to the whole world of common notebook PC expansions is a fast and easy way to extend also the functionality of a

CompactPCI® system. Thanks to the hot-plug capability of PC Cards which is also supported by the F209, there is no need to open the case, or power down and reboot the whole system. Typical PC Card functions include all types of wired and wireless interfaces for communication purposes as well as memory devices that make the F209 act as a removable data carrier.

The F209 is screened for -40 to +85°C operation temperature and prepared for conformal coating in order to be used also in harsh and mobile environments.

Diagram



Technical Data

PC Card Interface	■ PC Card Standard 1997 16-/32-bit, 5 V/3.3 V □ PC Card / PCMCIA (16-bit) □ CardBus (32-bit) ■ Up to two independent PC Card / CardBus sockets ■ Two slots Type I (3.3 mm) and II (5.0 mm), or ■ One slot Type III (10.5 mm) ■ 32-bit/33-MHz PCI interface, master/slave support ■ Hot insertion and removal ■ Two activity LEDs with 2-slot, Type-I/II model ■ PC Card power interface □ +5 V/+3.3 V: 1 A peak (each slot) □ +12 V: 150 mA peak (each slot) ■ Note: 16-bit legacy PCMCIA cards may cause interrupt problems!
Front Connections	■ Two PC Card / CardBus slots Type I or II, or ■ One PC Card / CardBus slot Type III
CompactPCI® Bus	■ Compliance with CompactPCI® Core Specification PICMG 2.0 R3.0 ■ Peripheral slot ■ 32-bit/33-MHz PCI-to-PCI bridge ■ V(I/O): +3.3 V (+5 V tolerant)
Electrical Specifications	■ Supply voltage/power consumption: □ +5 V (-3%/+5%), depending on plugged PC Card, 50 mA max. w/o card □ +3.3 V (-3%/+5%), depending on plugged PC Card, 50 mA max. w/o card □ ±12 V (-5%/+5%), may be used by some PC Cards
Mechanical Specifications	■ Dimensions: conforming to CompactPCI® specification for 3U boards ■ Front panel: 4HP with ejector ■ Weight: 150 g (w/o PC Card)
Environmental Specifications	■ Temperature range (operation): □ -40..+85°C (screened, also depending on plugged PC Card) □ Airflow: min. 10 m³/h ■ Temperature range (storage): -40..+85°C ■ Relative humidity (operation): max. 95% non-condensing ■ Relative humidity (storage): max. 95% non-condensing ■ Altitude: -300 m to +3,000 m ■ Shock: 15 g/11 ms ■ Bump: 10 g/16 ms ■ Vibration (sinusoidal): 2 g/10..150 Hz ■ Conformal coating on request
MTBF	■ MTBF: 2,176,890 h @ 40°C according to IEC/TR 62380 (RDF 2000)
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	■ PCI1520 PC Card controller device drivers integrated under Windows® and Linux ■ PC Card drivers as supported

Configuration & Options

Standard Configurations

Article No.	PC Card Slots	Front Panel	Operation Temperature
02F209-00	2 Type I/II or 1 Type III	4HP	-40..+85°C

Options

PC Card Interfaces	■ One/two slots at front, or ■ One onboard slot without front-panel access
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 F209 Models	02F209-00	2 PC-Card slots type I/II (or 1 slot type III) at front panel, -40..+85°C screened (carrier only)
-----------------------------	------------------	---

Documentation

Compare Chart 3U CompactPCI® / PlusIO CPU cards » [Download](#)

Compare Chart 3U CompactPCI® / PlusIO peripheral cards » [Download](#)

20F209-00 F209 User Manual

Contact Information

Germany

MEN Mikro Elektronik GmbH
Neuwieder Straße 3-7
90411 Nuremberg
Phone +49-911-99 33 5-0
Fax +49-911-99 33 5-901

info@men.de
www.men.de

France

MEN Mikro Elektronik SA
18, rue René Cassin
ZA de la Châtelaine
74240 Gaillard
Phone +33 (0) 450-955-312
Fax +33 (0) 450-955-211

info@men-france.fr
www.men-france.fr

USA

MEN Micro, Inc.
24 North Main Street
Ambler, PA 19002
Phone (215) 542-9575
Fax (215) 542-9577

sales@menmicro.com
www.menmicro.com

The date of issue stated in this data sheet refers to the Technical Data only. Changes in ordering information given herein do not affect the date of issue. All brand or product names are trademarks or registered trademarks of their respective holders.

MEN is not responsible for the results of any actions taken on the basis of information in the publication, nor for any error in or omission from the publication.

MEN expressly disclaims all and any liability and responsibility to any person, whether a reader of the publication or not, in respect of anything, and of the consequences of anything, done or omitted to be done by any such person in reliance, whether wholly or partially, on the whole or any part of the contents of the publication.

The correct function of MEN products in mission-critical and life-critical applications is limited to the environmental specification given for each product in the technical user manual. The correct function of MEN products under extended environmental conditions is limited to the individual requirement specification and subsequent validation documents for each product for the applicable use case and has to be agreed upon in writing by MEN and the customer. Should the customer purchase or use MEN products for any unintended or unauthorized application, the customer shall indemnify and hold MEN and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim or personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that MEN was negligent regarding the design or manufacture of the part.

In no case is MEN liable for the correct function of the technical installation where MEN products are a part of.

Copyright © 2013 MEN Mikro Elektronik GmbH. All rights reserved.