

F209 - 3U CompactPCI® PC Card Carrier



- 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.

Technical Data

PC Card Interface

- PC Card Standard 1997 16-/32-bit, 5V/3.3V
 - PC Card / PCMCIA (16-bit)
 - CardBus (32-bit)
- Up to two independent PC Card / CardBus sockets
- Two slots Type I (3.3mm) and II (5.0mm), or
- One slot Type III (10.5mm)
- 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
 - +5V/+3.3V: 1A peak (each slot)
 - +12V: 150mA 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): +3.3V (+5V tolerant)

Electrical Specifications

- Supply voltage/power consumption:
 - +5V (-3%/+5%), depending on plugged PC Card, 50mA max. w/o card
 - +3.3V (-3%/+5%), depending on plugged PC Card, 50mA max. w/o card
 - ±12V (-5%/+5%), may be used by some PC Cards
- MTBF: 2,176,890h @ 40°C according to IEC/TR 62380 (RDF 2000)

Mechanical Specifications

- Dimensions: conforming to CompactPCI® specification for 3U boards
- Front panel: 4HP with ejector
- Weight: 150g (w/o PC Card)

Environmental Specifications

- Temperature range (operation):
 - -40..+85°C (screened, also depending on plugged PC Card)
 - 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

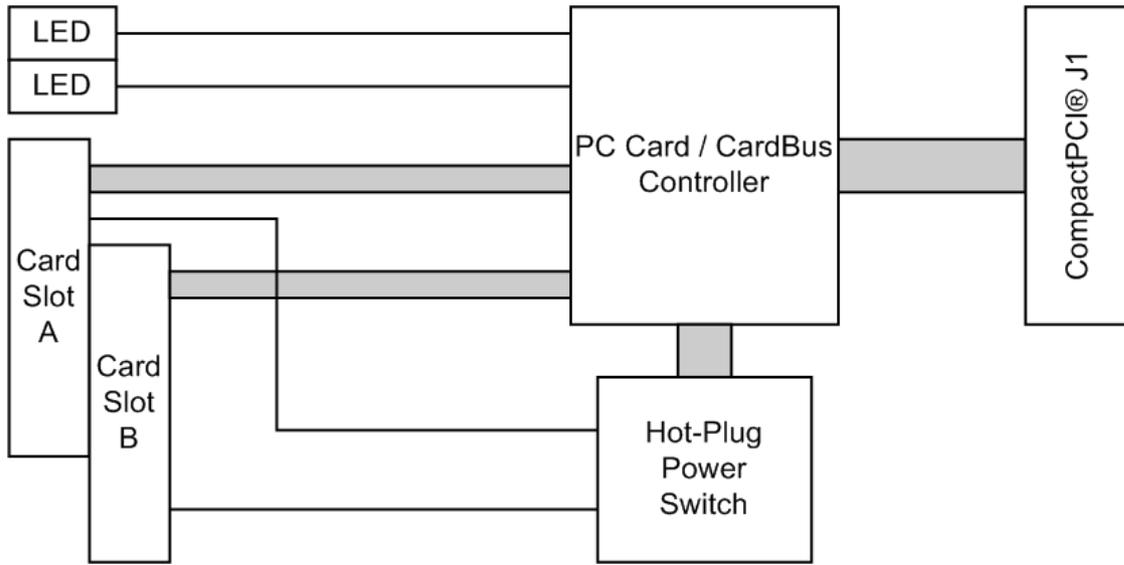
EMC

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

Software Support

- PCI1520 PC Card controller device drivers integrated under Windows® and Linux
- PC Card drivers as supported

Diagram



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

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 Hardware

02F209-00 2 PC-Card slots type I/II (or 1 slot type III) at front panel, -40..+85°C screened (carrier only)

Documentation

20F209-00 F209 User Manual

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the F209 online data sheet under » www.men.de.

Germany

MEN Mikro Elektronik GmbH
Neuwieder Straße 5-7
90411 Nuremberg
Phone +49-911-99 33 5-0
Fax +49-911-99 33 5-901
E-mail info@men.de
www.men.de

France

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

Information in this document has been carefully checked and is believed to be accurate as of the date of publication; however, no responsibility is assumed for inaccuracies. MEN Mikro Elektronik accepts no liability for consequential or incidental damages arising from the use of its products and reserves the right to make changes on the products herein without notice to improve reliability, function or design. MEN Mikro Elektronik does not assume any liability arising out of the application or use of the products described in this document.

The products of MEN Mikro Elektronik are not suited for use in nuclear reactors or for application in medical appliances used for therapeutical purposes. Application of MEN's products in such plants is only possible after the user has precisely specified the operation environment and after MEN Mikro Elektronik has consequently adapted and released the product.

Copyright © 2009 MEN Mikro Elektronik GmbH. All rights reserved.