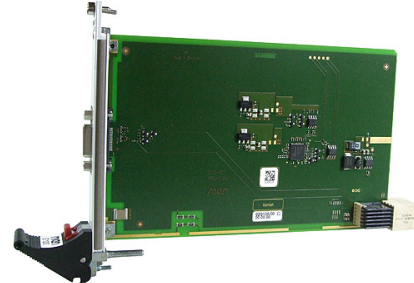


G100 – 3U CompactPCI® Serial to CompactPCI® Interface Card

- For operation together with F100 system slot card for CompactPCI®
- 1 PCI Express® x1 link
- -40 to +85°C with qualified components
- PICMG CPCI-S.0 CompactPCI® Serial peripheral card

The G100 is used in combination with the F100 to connect a CompactPCI® Serial system to a CompactPCI® system. The CompactPCI® Serial backplane and the CompactPCI® backplane can either be located in one housing or in two separate ones. The G100 is plugged into a peripheral slot of a CompactPCI® Serial system and is connected to the

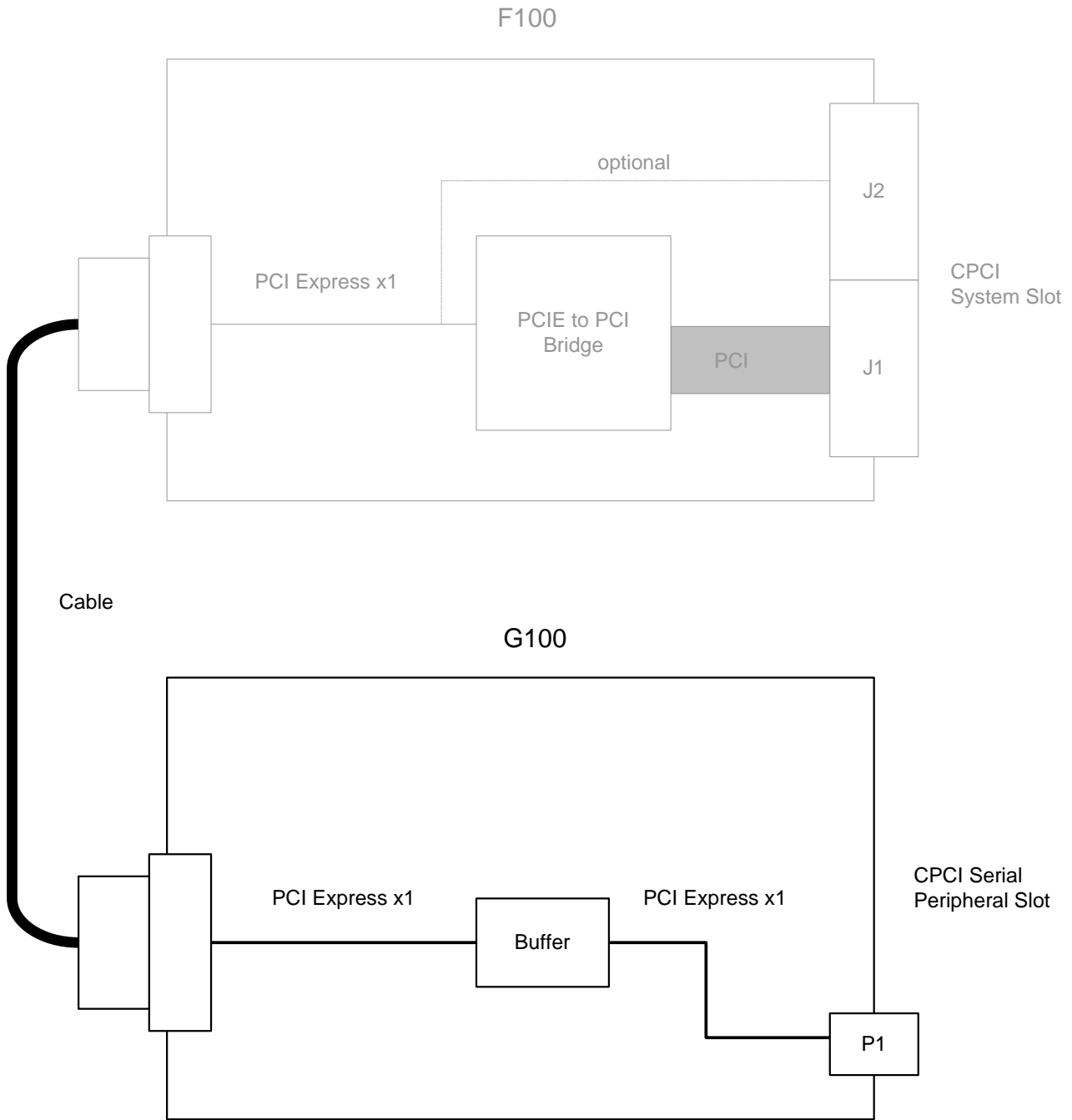


F100 via a PCI Express® cable at the front which can have a length of up to 7 m. The F100 functions as the system slot in the CompactPCI® system.

The G100 uses one PCI Express® x1 link from the backplane and leads it to the front to an 18-pin PCI Express® connector.

The board is qualified for operation in the extended temperature range of -40 up to +85°C.

Diagram



Technical Data

General Functionality	<ul style="list-style-type: none"> ■ Used in combination with F100 as an interface from a CompactPCI® Serial system to a CompactPCI® system
PCI Express®	<ul style="list-style-type: none"> ■ One x1 link on 18-pin front connector <ul style="list-style-type: none"> □ According to PCI Express® Cabling Specification Rev. 1.0 ■ PCI Express® buffer <ul style="list-style-type: none"> □ For decoupling the backplane PCI Express® interface from the front interface ■ Data rate up to 250 MB/s in each direction (2.5 Gbit/s per lane)
CompactPCI® Serial	<ul style="list-style-type: none"> ■ Compliance with CompactPCI® Serial PICMG CPCI-S.0 Specification ■ Peripheral slot ■ Host interface: one PCI Express® lane
Electrical Specifications	<ul style="list-style-type: none"> ■ Supply voltage/power consumption: <ul style="list-style-type: none"> □ +12V (-10%/+10%), 50 mA typ.
Mechanical Specifications	<ul style="list-style-type: none"> ■ Dimensions: conforming to CompactPCI® Serial specification for 3U boards ■ Weight: 116 g
Environmental Specifications	<ul style="list-style-type: none"> ■ Temperature range (operation): <ul style="list-style-type: none"> □ -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 + 3,000 m ■ Shock: 15 g, 11 ms ■ Bump: 10 g, 16 ms ■ Vibration (sinusoidal): 1 g, 10..150 Hz ■ Conformal coating on request
MTBF	<ul style="list-style-type: none"> ■ 2,585,957 h @ 40°C according to IEC/TR 62380 (RDF 2000)
Safety	<ul style="list-style-type: none"> ■ PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers
EMC	<ul style="list-style-type: none"> ■ Conforming to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)

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 G100 Models	02G100-00	3U CompactPCI® Serial peripheral card, PCI Express® x1 cable interface, -40..+85°C with qualified components (only in combination with F100; PCI Express® cable to be ordered separately)
Related Hardware	02F100-00	3U CompactPCI® system slot card, PCI Express® x1 to PCI bridge via cable, -40°C..+85°C with qualified components (only in combination with G100; PCI Express® cable to be ordered separately)
Miscellaneous Accessories	05G100-00	PCI Express® cable, 1m, 18-pin connector
Documentation	Compare Chart 3U CompactPCI® Serial CPU and I/O cards » Download	
	20G100-00	G100/F100 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.
860 Penllyn Blue Bell Pike
Blue Bell, PA 19422
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.