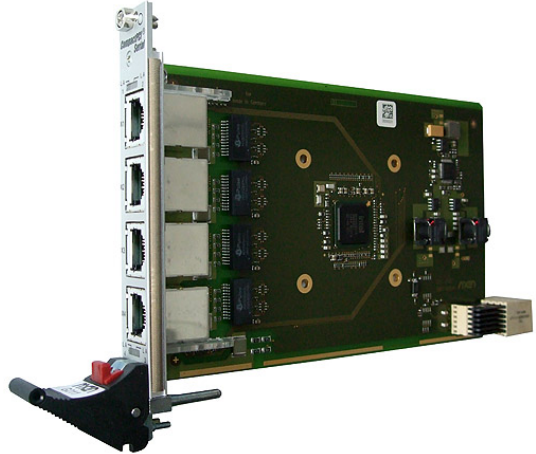


G211

Quad Gigabit Ethernet Interface Board, RJ45 or M12-A 3U CompactPCI Serial

- » Four 10/100/1000BASE-T Ethernet channels
- » Intel i82580 Server Chipset with support for 8 virtual machines
- » Full-duplex or half-duplex
- » RJ45 or robust M12 A-coded connectors
- » Fully integrated to comply with IEEE802.3u
- » 1500 V isolation voltage
- » -40 °C to +85 °C
- » PICMG CPCI-S.0 CompactPCI Serial peripheral card



Quad Gigabit Ethernet Board

The G211 quad Ethernet interface is a rugged single Eurocard CompactPCI Serial peripheral board. It can be used in combination with a CompactPCI Serial or CompactPCI PlusIO CPU board in a CompactPCI Serial or hybrid system.

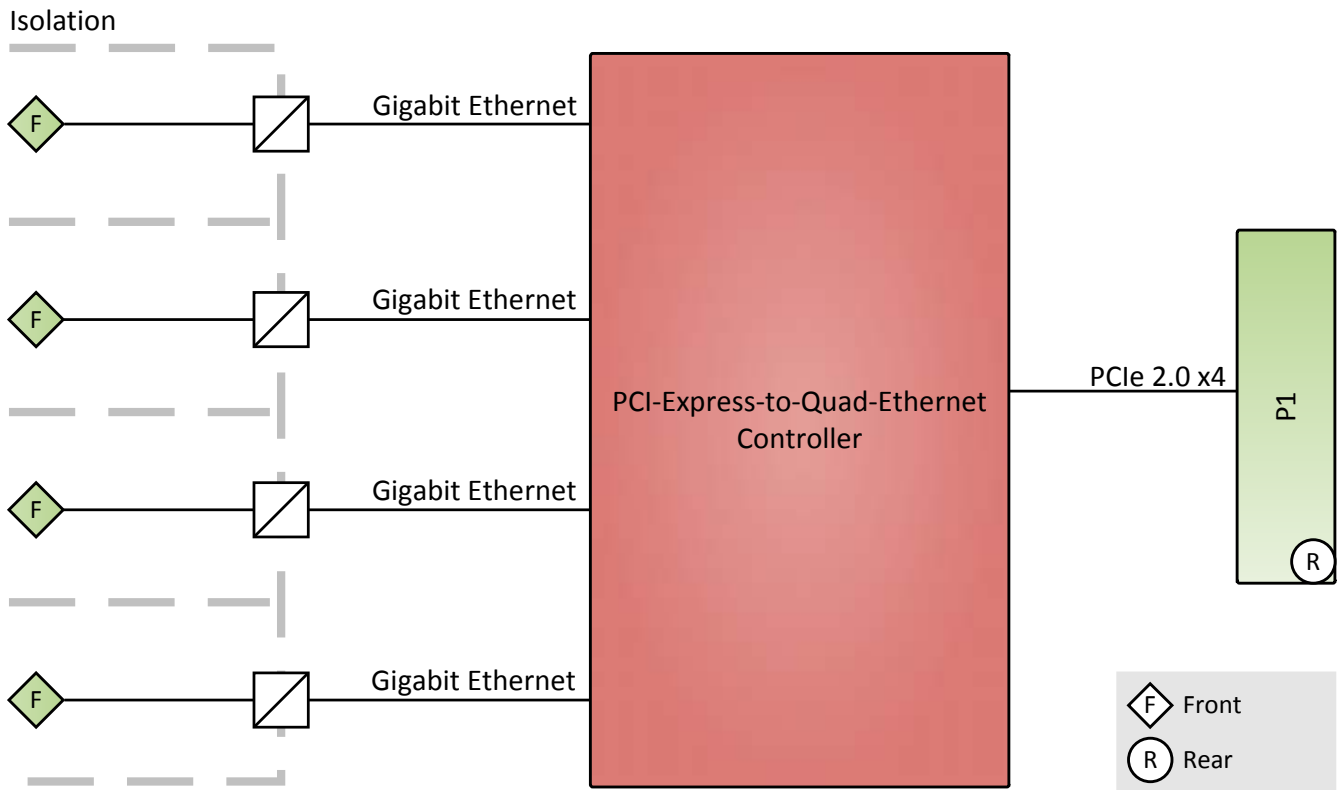
Flexible Front Connectors

It provides four Gigabit Ethernet interfaces at the front panel which can be accessed either on four RJ45 or four A-coded M12 connectors making it especially suited for applications in harsh environments.

All four interfaces are controlled by one Ethernet controller which is connected to the backplane via a x4 PCI Express link and supports the IEEE 802.3x standard. Each interface supports a data transfer rate of 1Gbit/s, even if all interfaces are used simultaneously. Two LEDs show the link and activity status of every interface.

Rugged Environments

The G211 is designed for extended operating temperature and prepared for conformal coating for use in harsh and mobile environments.



Interfaces

- Ethernet
 - 4x 10/100/1000BASE-T, M12, A-coded, receptacle
 - 4x 10/100/1000BASE-T, RJ45
- PCI Express
 - 1x PCIe 2.0, x4, backplane
- LED
 - Ethernet: activity, link

Product Standard

- CompactPCI Serial: CompactPCI Serial PICMG CPCI-S.0 Specification
- Peripheral slot

Electrical Specifications

- Supply voltage
 - +12 V (-10 %/+10 %)
- Power consumption
 - 6 W max. (with all links up)
- Isolation voltage
 - 1500 V AC

Mechanical Specifications

- Dimensions
 - 3U, 4 HP
- Weight: 240 g (with heat sink)
- Cooling
 - Air cooling, forced convection, airflow 1.0 m/s

Product Compliance: Rail - Rolling Stock

- Operating temperature: -40 °C to +85 °C (EN 50155:2007, class TX, board)
- Storage temperature: -40 °C to +85 °C (EN 60068-2-1:2007, Ab; EN 60068-2-2:2007, Bb)
- Altitude: -300 m to +3000 m
- Humidity: +55 °C and +25 °C, 90 % to 100 % RH (EN 50155:2007)
- Shock: 50 m/s² / 30 ms (EN 61373:2010, vehicle body, cat. 1, class B)
- Vibration: 10 min @ 1.01 m/s² and 5 h @ 5.72 m/s² (EN 61373:2010, vehicle body, cat. 1, class B)
- Electrical safety:
 - EN 50124-1:2001 + A1:2003 + A2:2005
 - EN 50153:2014
 - EN 50155:2007
- Fire protection: EN 45545-2:2013 + A1:2015, HL3
- EMC
 - Radiated emission: EN 50121-3-2:2015
 - Conducted emission: EN 50121-3-2:2015
 - Immunity: EN 50121-3-2:2015

Reliability

- MTBF: 324 639 h @ 40 °C according to IEC/TR 62380 (RDF 2000)

Software Support

- Linux
- Windows
- VxWorks
- QNX
- For more information on supported operating system versions and drivers see Software.

Germany

MEN Mikro Elektronik GmbH

Neuwieder Straße 1-7
90411 Nuremberg
Phone +49-911-99 33 5-0

sales@men.de
www.men.de

USA

MEN Micro Inc.

860 Penllyn Blue Bell Pike
Blue Bell, PA 19422
Phone 215-542-9575

sales@menmicro.com
www.menmicro.com

France

MEN Mikro Elektronik SAS

18, rue René Cassin
ZA de la Châtelaine
74240 Gaillard
Phone +33-450-955-312

sales@men-france.fr
www.men-france.fr

China

MEN Mikro Elektronik Co., Ltd.

Room 1212, #993 West Nanjing Road
Shanghai 200041
Phone +86-21-5058-0963

sales@men-china.cn
www.men-china.cn

Up-to-date information, documentation and ordering information:
www.men.de/products/g211/

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