

G211F

Quad Fiber Optics Interface Board 3U CompactPCI Serial

- » *Four independent optical transceiver channels 1000BASE-SX*
- » *Intel i82580 Server Chipset with support for 8 virtual machines*
- » *Fully integrated to comply with IEEE802.3x*
- » *500 V isolation voltage*
- » *-40 °C to +85 °C (without transceivers)*
- » *PICMG CPCI-S.0 CompactPCI Serial peripheral card*



Quad Fiber Optics Ethernet Board

The G211F is a rugged 3U CompactPCI Serial peripheral board. It offers the possibility to implement four optical fiber Ethernet interfaces. The board is equipped with a cage for connection of four SFP transceivers. The cage hosts the optical adapter. The cables are connected to the adapter module. MEN offers an optical transceiver with LC-Duplex connectors as an accessory.

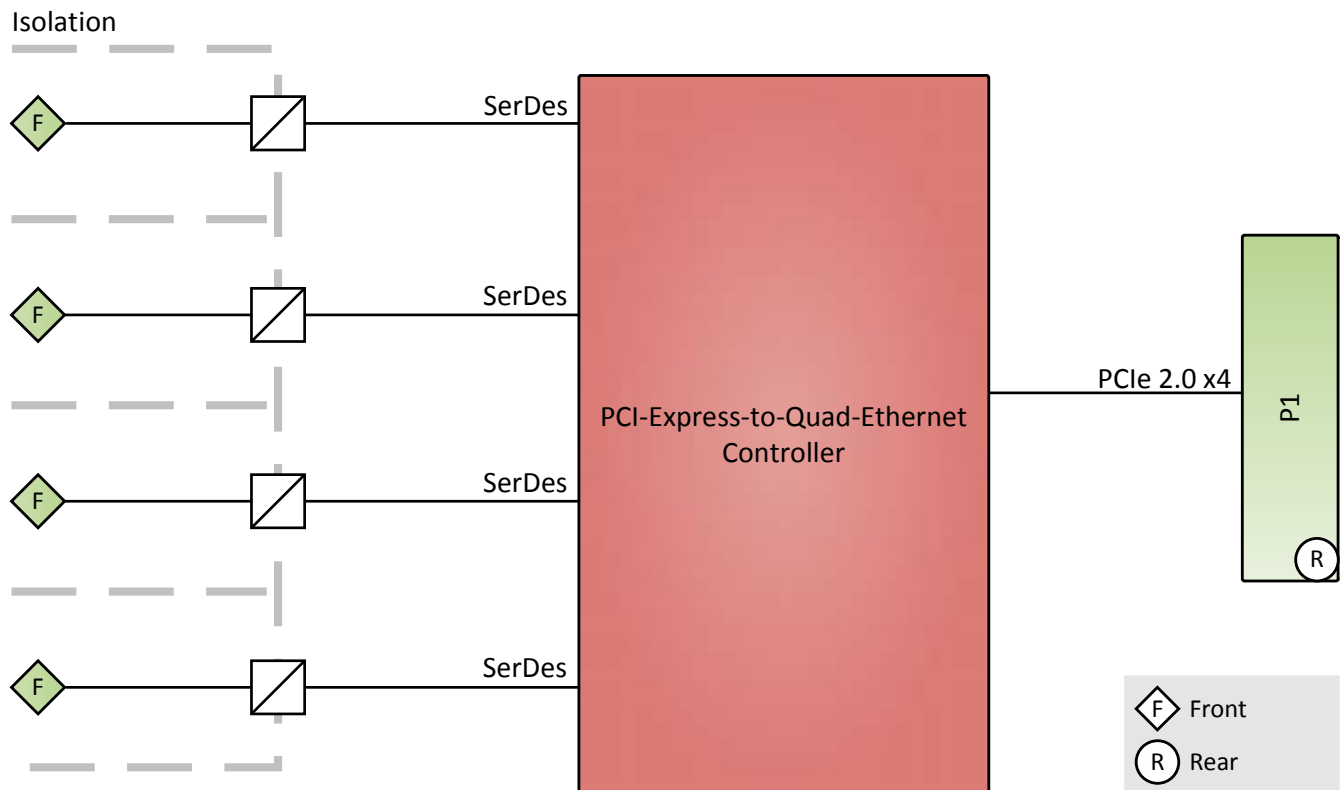
The G211F can be used in combination with a CompactPCI Serial or CompactPCI PlusIO CPU board in a CompactPCI Serial or hybrid system.

1000BASE-SX Channels

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 1 Gbit/s if all interfaces are used simultaneously. Two LEDs show the link and activity status of every interface.

Rugged Environments

The G211F is designed for extended operating temperature and prepared for conformal coating for use in harsh and mobile environments.



Interfaces

- Ethernet
 - 4x 1000BASE-SX, SFP transceiver cage
- 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
 - 8 W max. (with all links up)
- Isolation voltage
 - 500 V AC

Mechanical Specifications

- Dimensions: 3U, 4 HP
- Weight: 216 g (with heat sink)
- Cooling: Air cooling, forced convection, airflow 1.0 m/s

Environmental Specifications

- Temperature range (operation): -40 °C to +85 °C
- Temperature range (storage): -40 °C to +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
- Vibration (Function): 1 m/s², 5 Hz - 150 Hz
- Vibration (Lifetime): 7.9 m/s², 5 Hz - 150 Hz

Reliability

- MTBF: 311 742 h @ 40 °C according to IEC/TR 62380 (RDF 2000)

Safety

- Flammability (PCBs): UL 94 V-0

EMC

- EN 55022 (radio disturbance)
- EN 61000-4-2 (ESD)
- EN 61000-4-3 (HF irradiation)

Software Support

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

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Up-to-date information, documentation and ordering information:
www.men.de/products/g211f/

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