

PMC613FXRC

Dual/Single 100BaseFX Ethernet Interface Card

Features

- PCI 66/33MHz capable
- Dual/single 100BaseFX ports
- SC or ST connectors
- Operating system support for Microsoft® Windows® 2000, Linux®, VxWorks®, and Solaris™
- RoHS 2002/95/EC compliant
- Option for Wide Operating Temperature 0°C to +70°C
- IEEE P1386.1: PC Mezzanine Card, IEEE Standards compliant

PMC613FXRC offers one or two 100BaseFX ports that are each capable of full duplex operation in 100 Mbit mode. Each of the Ethernet/PCI interfaces includes a powerful DMA engine with very deep FIFO buffers. This assures continuous, full bandwidth operation with minimum PCI overhead. A state-of-the-art PCI/PCI bridge couples the Ethernet interfaces to the host PCI bus, assuring high performance with minimum PCI loading.

Operating System and Software Support

The PMC613FXRC is supported by native drivers for many common operating systems such as Microsoft Windows and Linux. Software drivers are available from GE for additional operating systems including VxWorks, LynxOS and Solaris. These drivers have been carefully designed and implemented to fit within the LAN protocol stack of the host operating system. Thus all facilities available from the host OS can be used across the PMC613FXRC.



PMC613FXRC – Single/Dual 100BaseFX Ethernet Card

Specifications

Ethernet Characteristics

- Ports: 1x or 2x 100BaseFX
- Port routing: Front (ST or SC connectors)

PCI Bus Characteristics

- Signaling: 3.3V and 5V
- Specification: 2.2
- Speed: 66/33 MHz
- Width: 32 bits

Power Consumption

- 4.7 W typical
- 5.0 W maximum

Environmental

- Temperature
 - Operating: 0°C to +60°C
 - Storage: -40°C to +85°C
- Relative Humidity
 - Operating: 5% to 95%, noncondensing
 - Storage: 5% to 95%, noncondensing

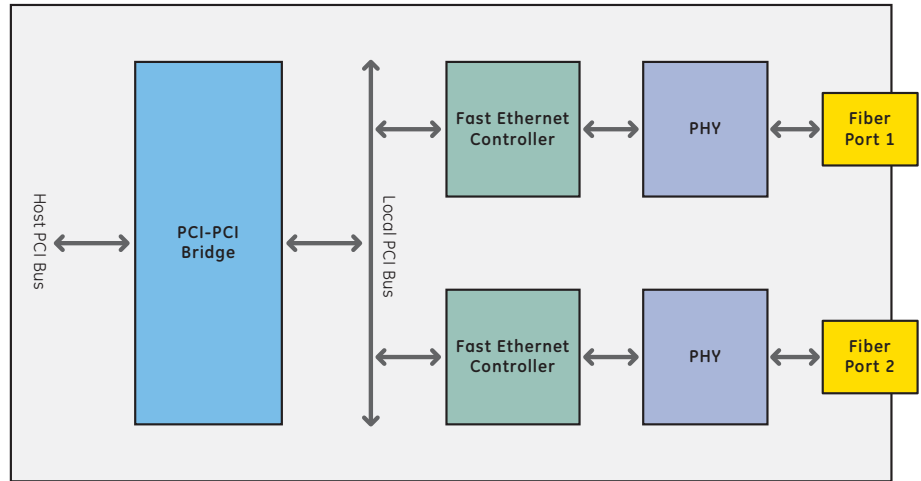
MTBF

- 1,637,105 hours per Ground Benign, controlled at 40°C

Regulatory Compliance

- RoHS 2002/95/EC
- EN55022:1998/A1:2001/2000/A2:2003
- FCC 47 CFR Part 15
- VCCI
- EN55024:1998/A1:2001/A2:2003
- IEC 60950-1:2005/EN60950-1:2006
- C22.2 No 60950-1-03
- UL 60950-1 1st Ed.

Block Diagram



Ordering Information

PMC613FXRCSC	Dual port, 100BaseFX, SC connectors
PMC613FXRCSC-1	Single port, 100BaseFX, SC connector
PMC613FXRCST	Dual port, 100BaseFX, ST connectors
PMC613FXRCST-1	Single port, 100BaseFX, ST connector
PMC613FXRCSC-EX	Dual port, 100BaseFX, SC connectors, wide operating temperature
PMC613FXRCST-EX	Dual port, 100BaseFX, ST connectors, wide operating temperature

Conformal Coating with either Polyurethane (-CC suffix) or Acrylic (-CCA suffix) is available.

About GE Intelligent Platforms

GE Intelligent Platforms is a General Electric (NYSE: GE) company, headquartered in Charlottesville, VA and part of GE Energy Management. The company's Military/Aerospace business, headquartered in Huntsville, AL, and Towcester, England, provides one of the industry's broadest ranges of high performance, rugged, SWaP-optimized embedded computing platforms. Backed by programs that provide responsive customer support and minimize long term cost of ownership for multi-year programs, GE's solutions are designed to help customers minimize program risk and cost, and to speed time-to-market. For more information, visit defense.ge-ip.com.

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