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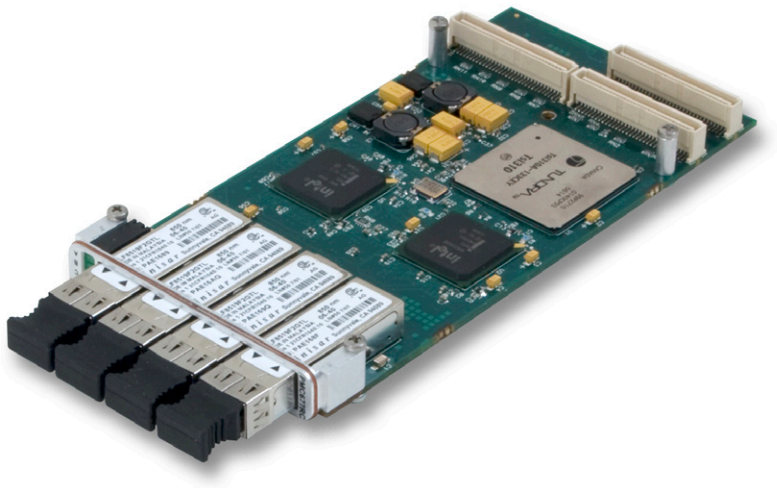
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GE Fanuc
Intelligent Platforms



PMC677

Quad Fiber Gigabit Ethernet PMC

Features

- PCI-X, PCI 64-bit/66MHz
- DMA engine
- Full 1000 Mbit point-to-point performance
- Jumbo frame capable
- Four 1000 Mbit Ethernet fiber ports
- Interchangeable, pluggable transceivers
- LC connector
- 1000BaseSX or 1000BaseLX
- RoHS 2002/95/EC compliant versions available
- Conformation coating available

Host offloading Features

- Packet filtering based on checksum errors
- SNMP and RMON statistic counters
- Hardware TCP checksum offloading
- Support for various address filtering modes:
  – 16 exact matches (unicast or multicast)
  – 4096-bit hash filter for multicast frames
  – Promiscuous unicast and promiscuous multicast transfer modes

The PMC677 is a PMC card designed to offer maximum 1000 Mbit full duplex Ethernet connectivity on four channels. This PMC uses LC connectors with SX or optionally LX transceivers. The Ethernet /PCI interface includes a powerful DMA engine with very deep FIFO buffers (64 Kbyte). This assures continuous, full bandwidth operation with minimum PCI overhead. There is one PCI-to-PCI bridge onboard.

Software Support

The PMC677 is supported by native drivers for many common operating systems including Windows® and Linux®. GE Fanuc Intelligent Platforms has software drivers available 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 operating system can be used across the PMC677.

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PMC677 Quad Fiber Gigabit Ethernet PMC

Specifications

Components
- PCI bridge: IBM21P100
- 2x Ethernet: Intel 82546

Ethernet Characteristics
- Ports: 4x 1000BaseSX or 1000BaseLX (optional)
- Port routing: Front, fiber LC

PCI Bus Characteristics
- Signaling: 3 & 5 V
- Specifications: 2.2
- Speed: 33/66MHz
- Width: 32/64 bit

Form Factor
- Single slot PMC

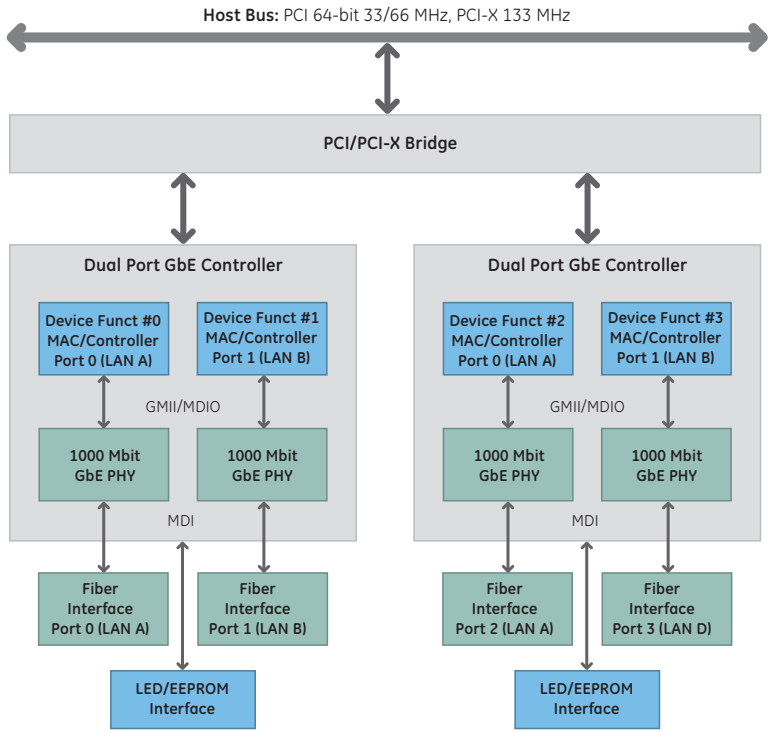
MTBF
- MIL 217-F Nav Shel 25 Deg. C: 245000 Hours

Power Specifications
- Power: 8.7 watts
  - @3.3V 0.8 amps
  - @5V 1.06 amps

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

Operating System Support
- Windows
- Linux
- S/B VxWorks
- LynxOS
- Solaris

Block Diagram



Ordering Information

PMC677	Quad Gigabit Ethernet PMC, fiber, LC, SX transceivers
PMC677/LX	Quad Gigabit Ethernet PMC, fiber, LC, LX transceivers
PMC677RCLC	Quad Gigabit Ethernet PMC, fiber, LC, SX transceivers, RoHS compliant
PMC677RCLC-LX	Quad Gigabit Ethernet PMC, fiber, LC, LX transceivers, RoHS compliant

Suffix -CC to any part number to indicate polyurethane conformal coating
Suffix -CCA to any part number to indicate acrylic conformal coating

Media Kit Options

M-GBI-SEV-ARC	VxWorks on PPC
M-GBI-SEV-ARP	VxWorks on x86
M-GBI-SES-ARS	Solaris on SPARC

About GE Fanuc Intelligent Platforms

GE Fanuc Intelligent Platforms is a leading global provider of embedded computing solutions for a wide range of industries and applications. Our comprehensive product offering includes many types of I/O, single board computers, high performance signal processors, fully integrated, rugged systems including flat panel displays, plus high speed networking and communications products. The company is headquartered in the U.S. and has design, manufacturing and support offices throughout the world. Whether you're looking for one of our standard products or a fully custom solution, GE Fanuc Intelligent Platforms has the breadth, experience and 24/7 support to deliver what you need. For more information, visit www.gefanuc.com.

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Additional Resources

For more information, please visit the GE Fanuc Intelligent Platforms web site at:

www.gefanuc.com

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