PMCC677RC
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
- 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 PMCC677RC 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 PMCC677RC is supported by native drivers for many common operating systems including Windows® and Linux®. GE 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 PMCC677RC.
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: 3.3 V
• Specifications: 2.2
• Speed: 33/66 MHz
• 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

Ordering Information
PMC677RLCLC  Quad Gigabit Ethernet PMC, fiber, LC, SX transceivers, RoHS compliant
PMC677RLCLC-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

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