



PMC696

Very High Performance Intelligent Dual 1000Mbit Ethernet

Features

- PCI-X, PCI 64/66 MHz
- High performance RISC CPU onboard
- 64 Mbytes of DDR SDRAM onboard
- Two 1000BaseSX (1000BaseLX optional)
- LC connector
- Failover firmware or embedded TCP firmware

Incorporating state of the art technology, the PMC696 sets a new standard for high performance data exchange. Two 1000 Mbit Ethernet controllers are combined with a local RISC processor and PCI-X system. The result is a very high performance, extremely flexible solution to a variety of data transfer requirements. Designed using standard protocols (1000BaseSX or 1000BaseLX Ethernet and PCI/PMC), the PMC696 is intrinsically economical, both in terms of direct unit cost and ability to utilize commodity LAN hubs and switches.

Application Specific Intelligence

Users can add application specific functionality to the onboard firmware, migrating appropriate control into the PMC696.

Local Intelligence

The onboard RISC processor allows the PMC696 to be utilized in a wide range of applications. In the simplest mode, all control can be kept in the system host, with the PMC696 providing dual Ethernet access. Other options include "dual rail" access, where the choice of physical access is automatically switched by the PMC696 "fail over" (the FOB firmware) or TCP/IP off loading (the eTCP firmware). The onboard processor has 64 Mbytes of ECC DDR SDRAM.



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Specifications

Components

- Processor: IBM 440GX

Power Specifications

- Power (total): 5.5 watts
- @3 V: 0.9 amps
- @5 V: 0.6 amps

Ethernet Characteristics

- Ports
 - 2 x 1000BaseSX (LX optional)
 - Front LC

PCI Bus Characteristics

- Signaling: 3 V and 5 V
- Specification: 2.1
- Speed: 33 MHz
- Width: 32

Form Factor

- Single slot PMC

MTBF

- MIL 217-F Nav Shel 25 Deg. C: 263,000 hours

Temperature

- Operating: 0 to +60 °C
- Storage: -40 to +85 °C

Humidity

- Operating: 5% to 95% noncondensing
- Storage: 5% to 95% noncondensing

Conformal Coating

- Yes, additional charge

Operating System Support

- Windows®
- Linux®
- VxWorks®
- LynxOS®
- Solaris®

Media Kit Information

For eTCP Versions

- M-ETC-SEI-ARP:** eTCP driver and libraries for Linux (x86)
- M-ETC-SEL-ARS:** eTCP driver and libraries for LynxOS
- M-ETC-SES-ARS:** eTCP driver and libraries for Solaris
- M-ETC-SET2-ARP:** eTCP driver and libraries for Windows
- M-ETC-SEV:** eTCP driver and libraries for VxWorks (PPC and x86)

For Failover Versions

- M-EFO-SEH-ARA:** Failover driver for HP/UX
- M-EFO-SEI-ARP:** Failover driver for Linux (x86)
- M-EFO-SEL-ARC:** Failover driver for LynxOS (PPC)
- M-EFO-SEL-ARP:** Failover driver for LynxOS (x86)
- M-EFO-SES-ARP:** Failover driver for Solaris (x86)
- M-EFO-SES-ARS:** Failover driver for Solaris (SPARC)
- M-EFO-SEV-ARC:** Failover driver for VxWorks (PPC)
- M-EFO-SEV-ARP:** Failover driver for VxWorks (x86)

Ordering Information

- PMC696LC-FWFOB:** LC connector, SX, Failover firmware
 - PMC696LC/LX-FWFOB:** LC connector, LX, Failover firmware
 - PMC696LC-FWTCP:** LC connector, SX, eTCP firmware
 - PMC696LC/LX-FWTCP:** LC connector, LX, eTCP firmware
- CC may be applied to any part to indicate conformal coating

About GE Fanuc Embedded Systems

GE Fanuc Embedded Systems 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 Embedded Systems has the breadth, experience and 24/7 support to deliver what you need. For more information, visit www.gefanucembedded.com.

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Additional Resources

For more information, please visit the GE Fanuc Embedded Systems web site at:

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