



PMC695

High Performance Intelligent 1000 Mbit/s Ethernet

Features

- PCI 64/66 MHz
- High performance PPC at 466 MHz on board
- Capable of handling full wire speed traffic
- 1000BaseSX or LX Ethernet port
- Single RS232 port
- Single 10/100BaseTX Ethernet port

Incorporating state-of-the-art technology, the PMC695 sets a new standard for high performance data exchange. One 1000 Mbit Ethernet controller (SX or LX option) is combined with a local RISC processor and PCI bridge system. The result is a very high performance, extremely flexible solution to a variety of data transfer requirements. Designed using standard protocols (1000 Mbit Ethernet and PCI/PMC), the PMC695 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 PMC695.

Local Intelligence

The onboard RISC processor allows the PMC695 to be utilized in a wide range of applications. GE Fanuc Embedded Systems' "embedded TCP/IP" (eTCP) allows the host to offload the TCP/IP overhead to the local I/O co-processor. The local processor has dedicated 64 MBytes of DDR SDRAM as well as 8 Mbytes of Flash.

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Specifications

Components

- PCI Bridge: Intel 21555
- Processor: IBM 440GP

Power Specifications

- Power: 7.8 watts
 - @ 3.3 V 1.3 amps
 - @ 5 V 0.7 amps

Ethernet Characteristics

- Ports: 2 x 100 BaseFX
- Port routing: Front SC/LC

PCI Bus Characteristics

- Signaling: 3 & 5 V
- Specification: 2.2
- Speed: 33/66 MHz
- Width: 64

Form Factor

- Single slot PMC

Mean Time Between Failures (MTBF)

- MIL 217-F Nav Shel 25 Deg. C: 263000 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®

Ordering Information

PMC695SC-FWTCP SC connector, SX, eTCP firmware

PMC695LC-FWTCP LC connector, SX, eTCP firmware

PMC695SC/LX-FWTCP SC connector, LX, eTCP firmware

PMC695LC/LX-FWTCP LC connector, LX, eTCP firmware

-CC may be applied to any part to indicate conformal coating

Media Kit Information

M-ETC-SEI-ARP eTCP driver & libraries for Linux (x86)

M-ETC-SEL-ARC eTCP driver & libraries for LynxOS

M-ETC-SES-ARS eTCP driver & libraries for Solaris

M-ETC-SET2-ARP eTCP driver & libraries for Windows

M-ETC-SEV eTCP driver & libraries for VxWorks (PPC and x86)

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:

www.gefanucembedded.com



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