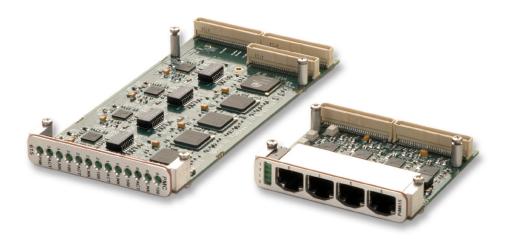# PMC615

Quad 10/100BaseTX Ethernet, Rear I/O

Features

- PCI 66 MHz capable
- Four 10/100BaseTX Ethernet
- Rear I/O via J4 (connecting with PIM615)
- Full duplex operation in both 10/100 modes

With four 10/100 Mbit Ethernet interfaces, the PMC615 delivers the highest networking performance. Four 10/100BaseTX engines are each capable of full duplex operation in both 10 and 100 Mbit modes. 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. Active components are used on the matching PIM (PIM615) to avoid possible signal loss problems across the backplane and TRM.

Auto-negotiation

The PMC615 features a full auto-negotiation facility allowing automatic configuration to the highest possible operating mode. This includes the option for automatic determination of both bandwidth and full duplex operation.

Software Support

The PMC615 is supported by native drivers for many common operating systems (Windows®, Linux®). GE Fanuc Embedded Systems has software drivers for additional operating systems (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 utilized across the PMC615.

PMC615 Quad 10/100BaseTX Ethernet, Rear I/O

Specifications

Components
- PCI bridge: Pericom PI7C8150
- 4 x Ethernet: Intel 8255ER

Power Specifications
- PMC615 power
  - Typical: 5.04 watts
  - Maximum: 5.91 watts
- PIM615 power
  - Typical: 1.58 watts
  - Maximum: 1.98 watts

Ethernet Characteristics
- Ports: 4 x 10/100 BaseTX
- Port routing: Rear RJ45 (via PIM615)

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

Mean Time Between Failures (MTBF)
- MIL 217-F Nav Shel 25 Deg. C: 600000 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

PMC615   Quad Ethernet 10BaseT/100BaseTX Ethernet controller with associated PIM
-CC may be applied to this part number 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 head-quartered 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