# PMC682/E

## Single 10/100BaseTX Ethernet NIC PMC

### Features

- PCI 66MHz capable
- Front I/O
- One 10/100BaseTX port
- Full-duplex operation in both 10 and 100 Mbit modes

The PCM682/E is an Ethernet NIC providing one 10/100BaseTX engine on a PMC. The engine is capable of full-duplex operation in both 10 and 100 Mbit modes. A PCI to PCI bridge couples the Ethernet interface to the host PCI bus ensuring high performance with minimal PCI loading.

A full auto-negotiation facility allows automatic configuration to the highest possible operating mode. This includes the option of automatic determination of both bandwidth and full-duplex operation.

### Low Cost, Effective Interconnect

Two PMC682/E boards can be directly cabled with a simple "cross-over". This configuration creates a full duplex 800 Mbit dedicated data path - delivering high bandwidth at very low cost. More complex, dedicated interconnects can be created using a hub or switch. Both point-to-point and switched hubs, in full-duplex mode, remove many determinism concerns raised with traditional Ethernet solutions. This makes the PMC682/E an excellent candidate for high performance inter-connects that require real time determinism.

### Software Support

Software drivers are available for most popular operating systems such as VxWorks®, Linux®, LynxOS®, Windows® NT and Solaris. These drivers have been carefully designed and implemented to fit within the LAN protocol stack of the host oper-ating system. Thus all facilities available from the host OS can be used across the PMC682/E. These drivers allow user control over the PMC682/E auto-negotiation capability.

# PMC682/E 10/100BaseTX Ethernet NIC PMC

## Specifications

**Components**
- Intel 82551ER chipset

**Power Requirements**
- 3.3V

**Form Factor**
- PMC

**PMC Expansion Site Connector**
- 3.3V and 5V signaling
- Types 1 and 2 32-bit PCI bus, 66MHz maximum

**Ethernet Characteristics**
- Ports: one 10/100BaseTX
- Port routing: front

**Environmental**
- Operating Temperature: 0 to +55 °C
- Storage Temperature: -40 to +85 °C
- Humidity: 5% to 95% non-condensing

**Other Options**
- Conformal coating: polyurethane or acrylic

**Operating System Support**
- Windows®
- Linux®
- VxWorks®
- LynxOS®

**Regulatory Compliance**
- European Union (CE Mark)
- United States FCC Part 15, Class A

**Safety:**
- UL60950-1
- CSA C22.2, No. 60950-1-03
- EN60950-1 (Low Voltage Directive)

## Ordering Information

**PMC682/E** 10/100BaseTX PMC; one port; front I/O;
-CC may be applied to any part to indicate polyurethane conformal coating
-CCA may be applied to any part to indicate acrylic conformal coating

**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.

**GE Fanuc Intelligent Platforms Information Centers**

Americas:
1 800 322 3616 or 1 256 880 0444

Asia Pacific:
+81 3 5544 3973

EMEA:
Germany:  +49 821 5034-0
UK:  + 44 1327 359444

**Additional Resources**

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

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