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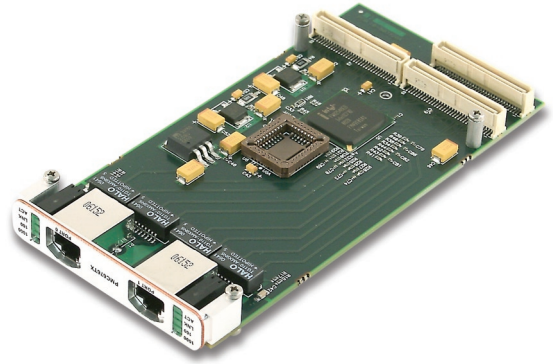
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PMC676TX

Single or Dual Copper Gigabit Ethernet PMC with Deep FIFO

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
- PCI-X, PCI 64/66 MHz
- RJ-45 connectors
- DMA engine
- Dual/single 10/100/1000BaseTX Ethernet
- Jumbo Frame capable

The PMC676TX offers single or dual 10/100/1000BaseTX Ethernet. The card is capable of full duplex operation on each of its channels. The Ethernet/PCI/PCI-X interface includes a powerful DMA engine for each port with very deep FIFO buffers (64 Kbyte). This assures continuous, full bandwidth operation with minimum PCI overhead. In addition, card edge PCI systems can be accommodated using a GE Fanuc Embedded Systems PMC239 adapter for rapid prototype and development.

Low Cost, Effective Interconnect

Two PMC676TX boards can be directly cabled with a simple "cross-over". This configuration creates a full duplex 1000 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 PMC676TX an excellent candidate for high performance interconnects that require real time determinism.

Software Support

The PMC676TX 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 PMC676TX.



PMC676TX Single or Dual Copper Gigabit Ethernet PMC with Deep FIFO

Specifications

Components

- Dual port Ethernet: 82546
 - Single port Ethernet: 82545

Power Specifications

- Power (total): 6 watts
- @3.3 V: 0.9 amps
- @5 V: 0.6 amps

Ethernet Characteristics

- Ports: 2 x 10/100/1000BaseTX
- Port routing:
 - Front: RJ-45

PCI Bus Characteristics

- Signaling: 3 V and 5 V
- Specification: 2.2
- Speed: 33/66 MHz
- Width: 32/64

Form Factor

- Single slot PMC

MTBF

- SMIL 217-F Nav Shel 25 Deg. C: 245,000 hours

Temperature

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

Humidity

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

Conformal Cooling

- Yes, additional charge

Operating System Support

- Windows
- Linux
- VxWorks
- LynxOS
- Solaris

Ordering Information

PMC676TX Dual port

PMC676TX/1 Single port

- S may be applied to any model number to indicate Solaris OBP boot option
- CC may be applied to any model number to indicate conduction cooled

Media Kits

M-GBI-SEL-ARC LynxOS (3.x) for PPC

M-GBI-SEL-ARP LynxOS (3.x) for PPC

M-GBI-SES-ARS Solaris (versions 7, 8, 9) SPARC

M-GBI-SEV-ARC VxWorks (versions 5.4, 5.5) PPC

M-GBI-SEV-ARP VxWorks (versions 5.4, 5.5) x86

M-GBI-SEVB-ARC VxWorks (version 5.3) PPC

Linux (2.4.x, 2.6.x), Windows (XP, NT, 2000) supported by drivers from Intel (included in most distributions, available from the Intel web site). LynxOS 4.x supported by driver included in the distribution.

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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