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Specifications

Embedded Systems

PMC661J Single 10/100BaseTX PMC Ethernet

- Auto negotiation
- Front I/O via flush mounted RJ45 connector
- Full duplex operation in both 10/100 modes

Specifications

NIC Matrix

The PMC661J, implementing 100BaseTX connectivity, is capable of full duplex operation in both 100 and 10 Mbit modes. The PMC661J Ethernet/PCI interface includes a powerful DMA engine with very deep FIFO buffers. This assures continuous, full bandwidth operation with minimum PCI overhead. In addition, card edge PCI systems can be accommodated using GE Fanuc Embedded Systems' PMC239 adapter, for rapid prototype and development.

Auto-negotiation

The PMC661J 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.

Low cost, effective interconnect

Two PMC661J boards can be directly cabled with a simple "cross-over". This configuration creates a full duplex 100Mbit 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 PMC661J an excellent candidate for high performance interconnects that require real time determinism.

Software support

GE Fanuc Embedded Systems has software drivers for all the popular operating systems (e.g. VxWorks, LynxOS, Digital UNIX, Windows NT, Solaris, etc.). These drivers have been carefully designed and implemented to fit within the LAN protocol stack of the host operating system. In this way, all facilities available from the host OS can be utilized across the PMC661J. GE Fanuc Embedded Systems' drivers allow for user control over the PMC661J auto-negotiation capability, enabling direct control of operating parameters.

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Embedded Systems

Functional Specifications: PMC661J Single 10/100BaseTX PMC Ethernet

Power		**1.5 Watts**
	@ 3.3 V	**0.2 Amp**
	@ 5 V	**0.2Amp**
Form Factor		
	PMC	**Single Slot**
MTBF		
	MIL 217-F Nav Shel 25 Deg. C	**360000 Hours**
Temperature		
	Operating	**0 to +60° C**
	Storage	**-40 to +85° C**
Humidity		
	Operating	**5% to 95% Non-Condensing**
	Storage	**5% to 95% Non-Condensing**
Conformal Coating		**Yes, additional charge**
PCI Bus Characteristics		
	Signaling	**3 & 5V**
	Specification	**2.1**
	Speed	**33MHz**
	Width	**32**
Ethernet Characteristics		
	Ports	
	10/100 Base-TX	**1**
	Port Routing	
	Front	**RJ45**

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