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## Embedded Systems

### PMC610J4 Quad 10/100BaseTX PMC Ethernet, Rear I/O



- PCI 66 Mhz capable
- Auto-negotiation
- Four independent 10/100BaseTX Ethernet via J4
- Full duplex operation in both 10/100 modes
- TCP/UDP checksum off loading
- Fully supports IP Security (IPSec)

With four 10/100Mbit Ethernet interfaces the PMC610J4 delivers highest networking performance. Four 10/100BaseTX engines are each capable of full duplex operation in both 100 and 10 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. The PCI bus can run at 66 Mhz. In addition, card edge PCI systems can be accommodated using GE Fanuc Embedded Systems' [PMC239](#) adapter for rapid prototype and development.

#### **Security Features (optional load)**

The PMC610/J4/IPSec option provides the IP Security (IpSec) frame formats for Triple Data Encryption Standard (3DES) encryption and decryption. Keying material is downloaded to each port as part of the security record.

#### **Auto-negotiation**

The PMC610J4 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 PMC610J4 boards can be directly cabled with a simple "cross-over". This configuration creates a full duplex 800Mbit 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 PMC610J4 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 the facilities available from the host OS can be utilized across the PMC610J4. GE Fanuc Embedded Systems' drivers allow for user control over the CP610 auto-negotiation capability.

Transistion Modules Availability [PIM610J4](#), [TR610A](#) and the [TR610B](#)



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