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PMC675

Intelligent Dual 100BaseFX Ethernet

Features

- Onboard RISC co-processor
- Two 100FX fiber Ethernet ports
- Options for SC, ST, or LC Fiber connectors
- Failover
 - Embedded TCP/IP firmware
- PCI 64/66 MHz
- 64 Mbytes of DDR memory

Incorporating state-of-the-art technology, the PMC675, which replaces the PMC665, sets a new standard for high performance data exchange. Two 100BaseFX Ethernet controllers are com-bined with a local RISC processor (PPC @400 MHz w/DDR memory) and PCI bridge system. The result is a very high performance, extremely flexible solution to a variety of data transfer requirements. Designed using standard protocols (100 Mbit Ethernet and PCI/PMC), the PMC675 is intrinsically economical, both in terms of direct unit cost and ability to utilize commodity LAN hubs and switches.

Application Specific Intelligence

Users can add application specific functionality to the onboard firmware, migrating appropriate control into the PMC675.

Local Intelligence

The onboard RISC processor allows the PMC675 to be utilized in a wide range of applications. The most common use of this is "dual rail" access, where the choice of physical access is automatically switched by the PMC675 "fail-over" firmware. In the PMC675's simplest mode, all control can be kept in the system host with the PMC675 providing dual Ethernet access. Other options include "embedded TCP/IP" providing TCP/IP capabilities to the host board processor.

Failover Firmware

Many applications have requirements for fault tolerance in the network connections. Some have traditionally used FDDI, which had dual physical connections as part of the basic

specification. Since FDDI has become end-of-life, both existing and new applications need a replacement. A GE Intelligent Platforms IEC (Intelligent Ethernet Controller) with Failover (FOB) firmware is one solution, designed specifically as an evolutionary step that can be rapidly integrated into existing network systems.

Running on one of the GE Intelligent Platforms Intelligent Dual Ethernet cards (either copper or fiber media), there is an ACTIVE port (on which Ethernet activity takes place) and a BACKUP port (which maintains the Ethernet controller in a suspended state). In the event of a failure of the ACTIVE port, the FOB firmware suspends this controller and activates the BACKUP controller. As all characteristics of the connection (e.g. MAC address) are maintained, no other machine on the LAN will be aware of this transfer. Transition occurs when a failure on the link is detected, either from physical indication or watchdog timeout. When responding to link errors the failover is very fast (<50 ms).

Integration with existing operating systems is easy because the FOB firmware allows the IEC to appear as a single Ethernet device, which is consistent with the current standards. This is a critical issue as the network system is complex and generally not easy to modify. By having the IEC as a simple network controller, integration falls into a well defined, existing category.

Failover compatible drivers are available for the following: VxWorks®, HP-UX®, Linux®, LynxOS®, QNX®, Solaris® and Windows®.



PMC675 Intelligent Dual 100BaseFX Ethernet

Specifications

Components

- PCI Bridge: Intel 21555
- Processor: IBM 440GP

Power Specifications

- Power: 5.5 watts
 - @ 3.3 V 0.9 am ps
 - @ 5 V 0.5 amps

Ethernet Characteristics

- Ports: 2 x 100 BaseFX
- Port routing: Front SC/LC/ST

PCI Bus Characteristics

- Signaling: 3V & 5 V
- Specification: 2.1
- Speed: 3 MHz
- Width: 32

Form Factor

- Single slot PMC

Mean Time Between Failures (MTBF)

- MIL 217-F Nav Shel 25 Deg. C: 263000 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®
- QNX®
- HP-UX®

Ordering Information

PMC675-FWFOB	Dual fiber, SC connector, failover firmware
PMC675LC-FWFOB	Dual fiber, LC connector, failover firmware
PMC675ST-FWFOB	Dual fiber, ST connector, failover software -CC may be applied to any part to indicate conformal coating

Media Kit Information

M-EFO-SEH-ARA	Failover driver for HP/UX
M-EFO-SEI-ARP	Failover driver for Linux (x86)
M-EFO-SEL-ARC	Failover driver for LynxOS (PPC)
M-EFO-SEL-ARP	Failover driver for LynxOS (x86)
M-EFO-SES-ARP	Failover driver for Solaris(x86)
M-EFO-SES-ARS	Failover driver for Solaris(SPARC)
M-EFO-SEV-ARC	Failover driver for vxWorks(PPC)
M-EFO-SEV-ARP	Failover driver for vxWorks(x86)

About GE Intelligent Platforms

GE Intelligent Platforms, a General Electric Company (NYSE: GE), is an experienced high-performance technology company and a global provider of hardware, software, services, and expertise in automation and embedded computing. We offer a unique foundation of agile, advanced and ultra-reliable technology that provides customers a sustainable advantage in the industries they serve, including energy, water, consumer packaged goods, government and defense, and telecommunications. GE Intelligent Platforms is a worldwide company headquartered in Charlottesville, VA and is part of GE Home and Business Solutions. For more information, visit www.ge-ip.com.

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