

NETernity™ PMCE4R

Unmanaged PMC 8-port 10/100BaseTX Ethernet Switch with rear I/O

Features

- 8-Port 10/100 BaseTX unmanaged Ethernet switch
- Unmanaged non-blocking Ethernet switch runs at wire speed.
- 8K MAC address lookup table with automatic learning.
- 802.1X MAC authentication.
- 28 32-bit and 2 64-bit RMON counters per port
- Integrated with eight auto-crossover Fast Ethernet transceivers.
- Shared 1 Mbit memory based switch fabric with true non-blocking switching performance.
- Supports full duplex operation.
- The eight 10/100 Ethernet ports are pin-compatible with the PMCE3R
- Fits any PMC site from which it only requires 5V supply.
- Rear I/O.

The NETernity™ PMCE4R is an eight port 10/100 Megabits per second (Mbps) Ethernet switch.

Suitable for use in a wide range of embedded networking applications in both air- and conduction-cooled systems and available in all build levels 1 to 5, the PMCE4R's eight X Base10/100 ports are pin-compatible with the PMCE3R and can be used as a direct replacement for the PMCE3R only where it is used as a stand alone unmanaged switch.

Typical applications for PMCE4R include: network port expansion, inter-board connection within or between chassis, standalone switching, system interconnects and data distribution.

The PMCE4R is provided on a PMC module fully compliant with ANSI VITA 20 and IEEE P1386 Standard Mechanics for a Common Mezzanine Card Family and IEEE P1386.1 Standard Physical and Environmental Layers for PCI Mezzanine Cards. However, the PMCE4R has no PCI connection to its host card other than the power supplies.

The small form factor and low power consumption enables the PMCE4R to be easily integrated into any rugged application requiring an embedded 10/100BaseTX Ethernet switch.

The PMCE4R supports full duplex operation to maximize the network's potential speed while accommodating the existing infrastructure. It is the perfect solution for delivering high throughput, low component count and automated configuration capabilities, offering performance and high reliability for today's mission electronics.

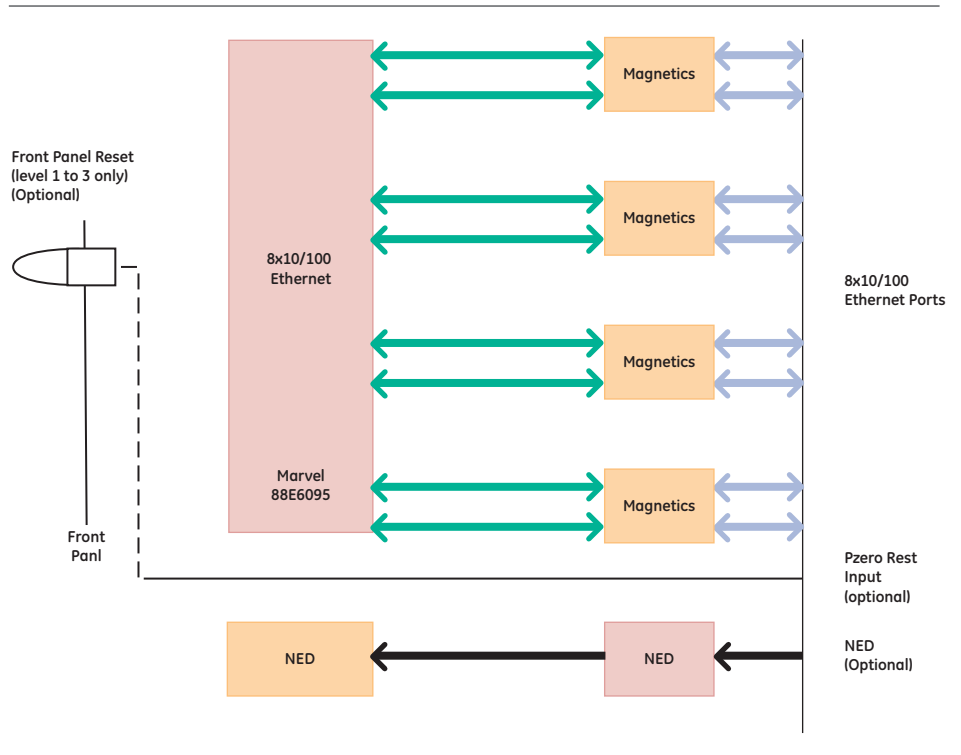
Optionally, the PMCE4R can be configured with a Nuclear Event Detect (NED) shutdown capability that will reduce the power supplies to less than 20% within a defined time of the NED signal being activated.

NETernity™ PMCE4R PMC Unmanaged 10/100BaseTX Ethernet Switch

Specifications

- Eight 10/100 un-managed Ethernet port switch
- 10/100 Ethernet ports pin-compatible with PMCE3R rear I/O connection
- Unmanaged non-blocking Ethernet switch runs at wire speed
- Supports up to 8K MAC addresses
- 1 Mbit on-chip memory-based switch fabric with true non-blocking switching performance.
- Air- and conduction-cooled ruggedization levels 1 to 5
- Optional NED capability

Block Diagram



Order Information

PMCE4R - WXYZ

W - Ruggedization Level 1 To 5

X-Function option

- 0 = Standard Ruggedization-Levels 1 to 5
- 1 = Front panel reset switch fitted-Levels 1 to 3 only
- 2 = PCI reset fitted-All Ruggedization Levels
- 3 = Front panel & PCI Reset fitted-Levels 1 to 3 only

Y- Front panel Gigabit Channel

0 = No Gigabit Channels-Levels 1 to 5

Z - NED (Nuclear Event Detect)

- 0 = NED not fitted-Levels 1 to 5
- 1 = NED fitted - (Standard time constant 250uS) (all Ruggedization levels)

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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