NETernity™ PMC942RC
Layer 2 Unmanaged Gigabit Ethernet Switch and NIC in PMC Form Factor

Features

- Eight 10/100/1000BaseTX auto-negotiating ports, supports full or half duplex
- Four ports accessible from front RJ45 connectors, three ports routed to P4
- One port GigE controller appears as a Network Interface to the host
- PIM available to access the rear ports
- Onboard NIC is connected to the eighth port on the switch
- Serial console signals routed to P4
- Full wire speed Layer 2 switching on all ports
- Capability to fix port Ethernet speed and duplex settings
- 4K MAC address table
- Auto address learning
- Auto address aging
- RoHS Compliant

The NETernity™ PMC942 is a fully integrated 8-port 10/100/1000BaseT Ethernet switch designed to support the low-cost requirements of unmanaged switch applications and converging networks. Seven of the ports are external; the eighth port appears as a NIC (Network Interface) to the host SBC to which the PMC is attached.

Why choose GE Intelligent Platforms NETernity Ethernet Switches?

GE Intelligent Platforms has a wealth of expertise in Military, Commercial and Telecommunications markets. This makes us unique in the embedded computing industry – we understand application requirements and we know communication protocols.

Our line of NETernity Ethernet Switches is unmatched. Not only is our product selection extensive, but the switches themselves provide maximum flexibility, performance, and density. NETernity Ethernet Switches are available in a variety of form factors, interfaces, levels of ruggedness, port configurations, media support and types of management.

Fully Managed switches are Layer 2/3+ switches with control and monitoring capabilities via local or remote access. Layer 2 managed switches are switches with control and monitoring capabilities, but with the management limited to Layer 2 capabilities. These are also accessed locally or remotely. Unmanaged switches are Layer 2 switches with no operator interfacing and are designed for quick deployment in simpler applications.

Call GE Intelligent Platforms knowledgeable sales team for help in selecting the switch that best meets your application requirements.
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Specifications

Components
- Switch fabric: Broadcom BCM5388KPBG
- Ethernet GbE Controller is Intel PC82545GM

Form Factor
- PMC

Signalling
- +3.3V

MTBF
- 959,587 hours per 40 degrees C Grand Benign, Controlled

Power Specifications
- Power:
  - @5V 8.2W
  - @3.3V 4.6W

Environmental
- Temperature
  - Operating: 0° to +60° C
  - Storage: -40° to +85° C
- Relative Humidity
  - Operating: 5% to 95%, noncondensing
  - Storage: 5% to 95%, noncondensing

Block Diagram

Ordering Information

PMC942RC  PMC 8 port GE Switch 4x front copper, 3 rear I/O via J4I with onboard NIC
PIM942RC  PCI Interface Module for accessing the three I/O ports routed to the rear

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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