



# NETernity™ CP981RC

CompactPCI® 12- or 24-Port Unmanaged Layer-2 Gigabit Ethernet Switch with Front I/O

## Features

- 6U CompactPCI® form factor
  - Single slot (12-port)
  - Dual slot (24-port)
- 12- or 24-port Gigabit Ethernet switch
- L-2 switching at wire-speed
- Unmanaged solution
- Ports can be 10BaseT, 100BaseTX and 1000BaseT, 1000BaseLX, 1000BaseSX, or a combination of interfaces
- Supports high availability hot swap
- Auto address learning
- Auto address aging
- 10BaseT, 100BaseTX, and 1000BaseT auto-negotiating, supports full or half-duplex
- Support for Jumbo Frames
- Front panel Link and Activity status LEDs
- Polyurethane or acrylic conformal coating optional

## Key Specifications

- IEEE 802.3-2005
- MDI/MDIX control
- PICMG 2.1 (Hot Swappable)
- RoHS 2002/95/EC compliant

NETernity™ CP981RC is an economical 6U CompactPCI unmanaged Layer-2 Gigabit Ethernet switch with front I/O that meets the low-cost requirements of unmanaged switch applications. This switch facilitates communications within a chassis as well as supporting the network outside the chassis. It is RoHS compliant, and supports high-availability hot swap.

CP981RC delivers full wire-speed Gigabit Ethernet Layer-2 switching on all ports. All ports are routed to front I/O. Ports may be 10BaseT, 100BaseTX and 1000BaseT (copper), 1000BaseSX or 1000BaseLX. Mixing and matching of fiber and copper media in groups of four is supported. Polyurethane or acrylic conformal coatings are optional.

## Why choose GE NETernity™ Ethernet Switches?

GE 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. Managed switches are Layer 2 switches with control and monitoring capabilities via local or remote access. Unmanaged switches are Layer 2 switches with no operator interfacing and are designed for quick deployment in well defined applications.

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



# NETernity™ CP981RC CPCI 12-or 24-port Unmanaged Layer-2 Gigabit Ethernet Switch with Front I/O

## Specifications

### Physical Interface

- 12 or 24 Gigabit Ethernet ports routed to front I/O
- 10BaseT, 100BaseTX and 1000BaseT, 1000BaseLX or 1000BaseSX
- RJ-45 connectors (copper); LC connectors (1000BaseLX and 1000BaseSX)

### Dimensions

- 6U (4HP) single slot CompactPCI form factor
- 6U (4HP) dual slot CompactPCI form factor
- Height: 9.2 in. (233.4mm)
- Depth: 6.3 in. (160mm)
- Thickness: 0.8 in. (20.3mm)

### Weight

- Single slot: 1.13 lbs (0.515 Kg)
- Dual slot: 1.91 lbs (0.87 Kg)

### Power Requirements

- 12 copper ports: 18W (max)
- 12 fiber ports: 24W (max)
- 24 copper ports: 30W (max)
- 24 fiber ports: 42W (max)

### Environmental

- Operating Temperature: 0° to +65 °C
- Storage Temperature: -40° to +825 °C
- Relative Humidity: 5% to 95%, noncondensing

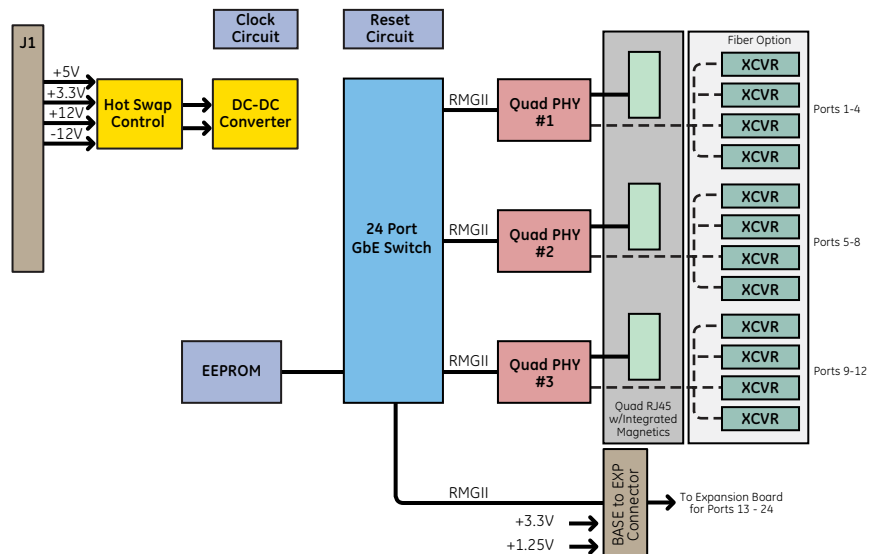
### MTBF

- CP981RC-120000: 624,414 hours
- CP981RC-240000: 439,421 hours
- Calculation Model: Telcordia Issue 1
- Calculation Method: Method 1 Case 3
- Operating Environment: 40.00° C; GB, GC – Ground Benign, controlled

### Regulatory Compliance

- European Union (CE Mark)
  - EN55022 Radiated Emissions Class A
  - EN55022 Conducted Emissions Class A
- United States
  - FCC 47 Part 15, Class A
- Safety:
  - UL60950-1
  - CSA C22.2, No. 60950-1
  - EN60950-1 (Low Voltage)
- RoHS 6/6: European Community Directive 2002/95/EC

## Block Diagram



## Ordering Information

Base Part Number	# of Copper Ports	# of Fiber 1000SX Ports	# of Fiber 1000LX Ports
	AA	BB	CC
CP981RC-			
Example 1	8 ports (08)	4 ports (04)	0 ports (00)
Example 2	4 ports (04)	16 ports (16)	4 ports (04)

NOTE: Only allowable combinations are all copper, all fiber, or mix of copper and fiber ports in increments of four. CP981RC supports either 12 ports (single slot) or 24 ports (dual slots).

### Suffix

- CC to model number to indicate polyurethane conformal coated boards
- CCA to model number to indicate acrylic conformal coated boards

Example 1: Order CP981RC-080400 (CP981RC with 8 copper & 4 fiber 1000BaseSX ports)

Example 2: Order CP981RC-0401604-CC (CP981RC with 4 copper, 16 1000BaseSX, and 4 1000BaseLX ports and polyurethane conformal coating)

## 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](http://www.ge-ip.com).

## GE Intelligent Platforms Contact Information

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