

NETernity™ CPX24

24-Port Gigabit Ethernet Switch

Features

- 24-port fully managed Gigabit Ethernet Switch
 - Two 10 Gigabit uplink ports for expansion
 - Option for up to 24 1000BaseSX or 1000BaseLX Fiber Optic Ports
- Layer 2/3 switching with advanced support for VLANs, QoS and IPv6
- 88 Gbits/sec non-blocking switch fabric with full wirespeed performance
- Configuration through Web interface
- Expands to 48-port non-blocking solution
- Unmanaged version available
- Air- and conduction-cooled models
- Supports IPv6 switching / routing
- Remote management support (Telnet, HTTP and SNMP)
- Built-in-Test (BIT) software

NETernity™ CPX24 is a fully managed (Layer 2/3) Gigabit Ethernet switch designed to meet the most demanding requirements for network switching in tactical applications. The Gigabit switch is available in both air- and conduction-cooled formats and features a non-blocking shared memory architecture. This provides 88 Gbits/sec* core offering full wire speed performance with minimal latency on all ports simultaneously.

CPX24 has comprehensive management capabilities that include VLANs, Link Aggregation, Spanning Tree, IPv4, IPv6, Traffic Policing, Quality of Service (QoS), Guaranteed Bandwidth and SNMP. The CPX24 can be expanded to a 48-port non-blocking solution by connecting two CPX24s together via the integral 10 Gigabit uplink ports.

CPX24 provides optional expansion through a mix of onboard optics and separate Optical Expansion Board (OXB20). All twenty-four ports can be converted to optical outputs to give twenty-four ports of Gigabit, either 1000BaseSX or 1000BaseLX, and two ports of 10 Gigabit, either 10G BaseSR or 10G BaseLR. Onboard built-in-test (BIT) ensures the CPX24 can be easily linked with other GE Intelligent Platform boards to provide integrated system level health monitoring and diagnostics.

* 48Gbits/sec from 24 x Gbit ports plus 40Gbits/sec from 2 x 10Gbit ports.

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, and 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 applications requirements.



NETernity™ CPX24 24-Port Gigabit Ethernet Switch

Specifications

Ethernet

- IEEE 10/100/1000BaseT and two 10 Gbit XAUI

Compliance

- IEEE 802.3-2002

Architecture

- Shared memory, store-and-forward

Auto Learning

- 8000 MAC addresses

Ports

- Twenty-four 1000BaseT ports and two 10 Gbit XAUI ports. Additional 10/100 management port.

Fiber Ports (optional)

- Four onboard Gigabit ports (LC type connector) 1000BaseSX/LX
- Twenty Gigabit ports via OXB20 (LC type connector) 1000 BaseSX/LX

Onboard CPU

- Freescale PowerPC processor (347 MHz)

Management Features

- IEEE 802.3ac - VLAN tagging
- IEEE 802.3ad - Link Aggregation
- IEEE 802.1S/W/D Spanning Tree
- IPv4 and IPv6 traffic policing
- Access control lists
- SNMP V1, V2c and V3
- Jumbo Ethernet frames
- Packet prioritization Diffserve, DSCP or VLAN tag

Dimensions

- 160mm x 233mm

Power

- 5V DC less than 60W (20W + 1.6 1G channel)

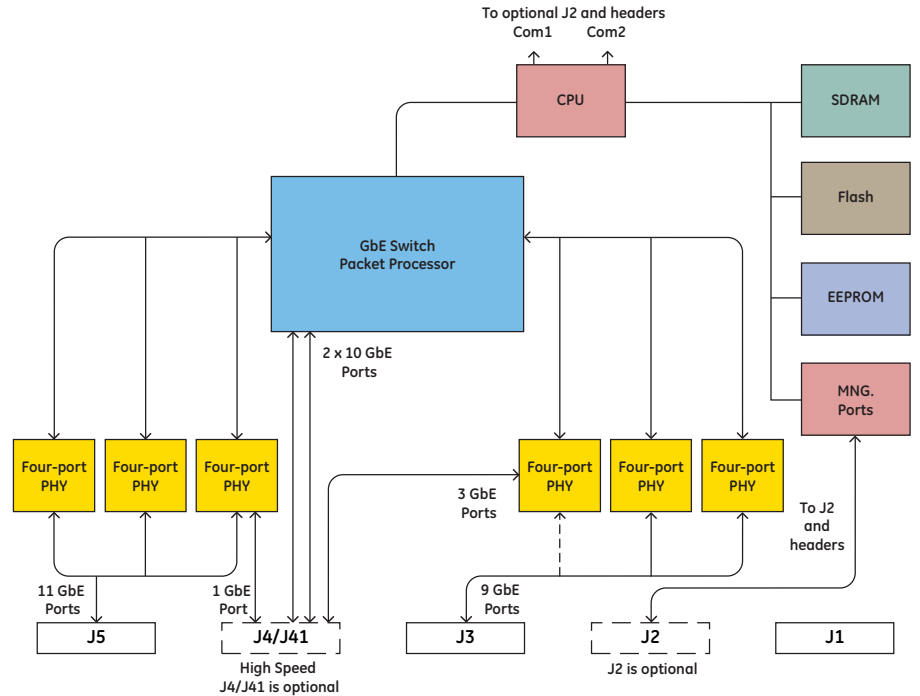
Environment

- Ruggedization levels 1 - 5

Mean-Time Between Failure

130, 243 hours per Ground Benign, 30 degrees C

Block Diagram



Ordering Information

CPX24-abcde

Where a= level of ruggedization 1 thru 5

b= 10GigE expansion; 0=no, 1=Dual 10G copper expansion

c=number of copper and/or fiber ports

d=J2 fitted or not fitted; 0=not fitted (compatibility mode), 1=fitted

e=software variants; 0=no management software, 1= adds switch management software

BIT software is included on all models

Example Configuration:

CPX24-10110 - CPX24 switch, ruggedization level 1, no 10GigE expansion, 20 copper plus 4 1000BaseSX optics, J2 fitted, no management software (but includes BIT)

CPX24-50001 - CPX24 switch, ruggedization level 5, no 10GigE expansion, 20 copper ports (PICGM 2.16/Vita 31.1 mode), J2 not fitted, management software (includes BIT).

Software Support & Maintenance

CPX24SW-LVL71M - Annual support & maintenance for LVL7 management software

CPX24SW-BIT1M - Annual support & maintenance for built-in test

GE Intelligent Platforms Contact Information

Americas: 1 800 433 2682 or 1 434 978 5100

Global regional phone numbers are listed by location on our web site at www.ge-ip.com/contact

www.ge-ip.com/ethernet-lan

