# NSGDatacom

## CNX

- ***Rugged construction, yet may be reconfigured or serviced using only a screwdriver***
- ***Boots from flash card, TFTP server, BOOTP or Floppy Disk***
- ***Software and Interface Cards common throughout CNX product line***
- ***Modular Interface Cards may be mixed and matched as application requires***
- ***Rack mount or table top installation***
- ***CNX 600 Front panel 80-character LCD window displays system status, error messages, prompts and menus***
- ***CNX 600 supports optional dual independent power supplies***
- ***Approved by U.S. Navy for shipboard use***

### Enterprise Connectivity Solution

Designed as an Enterprise solution, the CNX provides an open software environment that enables users to optimize performance and reliability. The U.S. Navy has tested the CNX for rugged construction, ease of maintenance and software stability and has approved it for mission critical use on submarines and other shipboard installations.

Along with the Proteon Routing Operating System, the CNX line supports a comprehensive software protocol suite and multiple LAN and WAN hardware interfaces. The CNX product line is comprised of two models:

The *CNX 600* is a multi-network, multi-protocol RISC-based bridging router. It uses modular design to accept up to five interface line cards, which include dual and quad Ethernet, dual and quad serial, dual token ring and FDDI (Fiber Distribution Data Interface). The base unit can accommodate an optional second independent power supply.

The *CNX 500* router is based upon a similar architecture but a smaller chassis, containing up to three interface cards and a single power supply.

Serial port interface cards are available in 2-port and 4-port versions with RS-232, V.35, RS-449 and X.21 interfaces. Dual and quad Ethernet cards offer 10Base-5, 10Base-2 and 10Base-T. The Token Ring interface presents shielded or unshielded twisted pair (STP/UTP) interfaces. The FDDI interface operates with single mode or multimode fiber.


**CNX 600**

t h e  c o n n e c t i v i t y  c o m p a n y

# Product Features

# CNX

## General

**Processor:** AMD 29030 RISC

### CNX 600:

**Size:** 19" Rack Mountable
10.8" H x 16.8" W x 16.8" D
27.4 x 42.7 x 42.7 cm

**Power:** 120-240 VAC, 47-63 Hz
5 Amps @ 120 VAC
2.5 Amps @ 240 VAC

**Heat:** 1760 BTUs

**Operating Environmental Requirements:**
Temperature: 5° to 40° C
Humidity: 8% to 90% (non-condensing)

**Storage Environmental Requirements:**
Temperature: -40° to 75° C
Humidity: 5% to 95% (non-condensing)
Approvals: CSA, UL, FCC class A, EN55022 class A

**Weight:** 64 lbs (29 kgs) (fully populated)

### CNX 500:

**Size:** 19" Rack Mountable
6.5" H x 16.5" W x 16.3" D
16.5 x 41.9 x 41.4 cm

**Power:** 120-240 VAC, 47-63 Hz
2 Amps @ 120 VAC
1 Amp @ 240 VAC

**Heat:** 818 BTUs

**Operating Environmental Requirements:**
Temperature: 10° to 41° C
Humidity: 8% to 90% (non-condensing)

**Storage Environmental Requirements:**
Temperature: -20° to 70° C
Humidity: 5% to 95% (non-condensing)
Approvals: CSA, UL, FCC class A, EN55022 class A

**Weight:** 32 lbs (14.5 kgs) (fully populated)

**CNX 600 Rear view**

## Special Features

### CNX 500 & 600:

- Easy Start configuration dialog software
- GTAM (GT Access Manager) Network Management System
- LAN Network Manager
- 4-Mbyte flash card Integrated boot device
- Power-up diagnostics for the router and FDDI interface card detect and isolate hardware problems.
- Event Logging System
- May operate in rack-mounted or tabletop configuration

### CNX 600:

- Liquid Crystal Display status window, two lines of 40 characters
- Boot source may be chosen via front panel keys and LCD display
- Watchdog timer may be activated from front panel
- Internal data modem (U.S. & Canada) provides remote dial-in to console
- Optional secondary power supply
- 2.88 Mbyte floppy disk drive

## Protocol Support

- IP
- RIP (v2, Triggered RIP)
- (M)OSPF
- DVMRP
- BGP4 (Border Gateway Protocol)
- NAT (Network Address Translation)
- PPP (with compression)
- Multilink PPP (with compression)
- PAP/CHAP
- Frame Relay
- X.25
- XTP (X.25 Transport Protocol)
- V.25 bis
- HSSI
- MBONE routing
- WRS (WAN Restoral)
- ASRT (Adaptive Source Routing Transparent Bridge)
- AppleTalk Phase 2
- DECnet
- Banyan VINES
- DLSw (v1.0 RFC1795)
- Novell IPX
- DIAL
- SDLC Relay
- DLSw (Data Link Switching)
- Digital Network Architecture Phase V/IV—DN, DNV & OSI

**CNX 600**

## IP Features

- 10-BaseT TCP/IP Ethernet interface
- Adaptive Source Routing Transparent Bridge (ASRT with NETBIOS Name Caching & Filtering)
- Secure Filters
- MAC Filtering (MCF)
- BRS (Bandwidth Reservation System)

## Interfaces

Five slots (CNX 600) or three slots (CNX 500) supporting the following cards in any mix:

**IEEE 802.5 4/16 Token Ring:**
2 port 4/16 STP/UTP
2 port 4/16 STP/UTP with CAMs for ASRT support

**IEEE 802.3 Ethernet:**
Dual Port 10Base5 (AUI)
Dual Port 10Base2 (AUI)
Quad Port 10Base5 (AUI
Quad Port 10BaseT (RJ-11)
Quad Port 10Base2 (BNC)

**Serial Interface :**
(RS-232/V.35, RS-449/X.21, G.703)
Twin Port
Qual Port

**FDDI (Dual Ports A & B):**
62.5µ/50µ
Single Mode fiber
Single Mode Port A, Multimode Port B
Single Mode Port B, Multimode Port A
Twin Multimode 62.5µ/50µ
Optional external bypass switch

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*Specifications subject to change without notice*