



CNA-8000 Channel Network Appliance

A functional alternative to Cisco routers with Channel Interface Processors (CIPs), IBM 3172 gateways and many IBM Front-end Processors.



System Features

- Functional replacement for Cisco CIP I & II, IBM 3172, 2216 & 3174 PU2 Gateways
- Configurations to support SNA LLC Gateways, TN3270 Gateways and IP Channel Bridge
- ESCON host connectivity
- Client connection via Ethernet or Token Ring
- Web Based Configuration
- Redundant RAID drives
- Redundant hot swappable power supplies and fans

System Options

- Single Port ESCON adapter
- Quad Port Ethernet Adapter
- Single Port Token Ring Adapter

Communications Gateway

The CNA-8000 is a channel attached communications gateway that provides a robust alternative to Cisco routers with Channel Interface Processors (CIPs), IBM 3172 gateways, and many IBM Front-end Processors. The CNA-8000 can be configured to provide gateway functions for SNA LLC, TN3270 and IP Bridging.

The CNA-8000 base system is equipped to provide SNA LLC gateway functions using an XCA interface to VTAM. Up to 2000 SNA platforms per Ethernet interface can be supported. The attached SNA platforms can be a mix of PU2.0 and PU2.1 nodes.

Host Connectivity

Primary host connectivity for the CNA-8000 is through single or dual ESCON adapters, each capable of providing up to 16 CU Images and 256 sub-channels.

Network Interface

Integrated in the CNA-8000 are dual 10/100/1000 Mbps Ethernet interfaces that can be configured to support TCP/IP and SNA LLC2 protocols. These protocols and associated features may run concurrently on the Ethernet interfaces.

Also available are one or more 4/16/100 Mbps Token Ring adapters supporting TCP/IP and SNA LLC2 protocols. The 4/16/100 Mbps Token Ring System Adapter is capable of automatic ring speed detection and is IEEE 802.5r compliant.

Management & Configuration

Management and configuration of the CNA-8000 is supported through a network browser connection, Visara's eManager option, or a locally attached keyboard, mouse and monitor.

When the CNA-8000 is configured to provide TN3270 gateway functions, it supports up to 4,000 TN3270 clients. The client sessions can be optionally increased to support up to 8,000 total sessions. Client sessions appear to the host as SNA 3270 sessions.

When the CNA-8000 is configured to provide IP Bridge functions, IP traffic on the network can be bridged to the IP stack residing in zOS over an ESCON channel interface.

Optional Hardware

- **Single Port ESCON adapter** - up to two adapters may be installed.
- **Quad Port Ethernet adapter** - provides four additional 10/100/1000 Base-T Ethernet interfaces (one per unit).
- **Single Port Token Ring adapter** - provides 4/16/100 Mbps Token Ring interface.

Optional Software

- **TN3270 Gateway Personality Feature** - activates the gateway function and provides 4,000 TN3270 clients.
- **TN3270 Client Activation II** - increases the machine TN3270 client total to 8,000 (requires TN3270 Gateway Personality Feature).
- **IP Bridge Personality Feature** - activates the bridge function for use with installed ESCON host interfaces.

Base System

- **Cabinet** - 19" 3U rack mountable server
- **Processor** - 3.0+ Gig Hz Intel Xeon processor with EM64T and 1Mb L2 Integrated Advanced Transfer Cache, 2 Gig Byte main memory
- **Drives** - Dual SATA fixed drives operating in RAID 1 mirroring
- **Power Supplies** - Triple Redundant Hot Swappable (three power supplies operating in N+1 mode) supports "Dual Power Cord Initiative"
- **Client Interfaces** - Two 10/100/1000 Base-T Ethernet interfaces with RJ45 connectors
- **Expansion Slots** - Five available full height, full length PCI-x slots and one available PCI-Express slot
- **Media** - Slim CD/DVD Writer supporting program upgrades and full system back ups
- **System Cooling** - Four 9cm Hot-swappable internal logic fans and two 8cm Hot-swappable rear cabinet exhaust fans
- **Power/Environmental** - 100-240 VAC, 50-60 Hz 50 degree to 90 degree F (10 to 35 degree C) Operating temperature 8% to 90% Relative Humidity Non-condensing

Agency Certification

- **Safety:**
USA/Canadian: UL 60 950, CSA 60 950
European Union - EN 60 950
International - IEC 60 950
- **EMC-Emissions:**
USA - Title 47 CFR, Part 15
European Union - EN55022: 1994
International - CISPR 22

Warranty

One Year On-Site - 9/5 Same Day 8 hr Response is standard. Service level may be upgraded at time of purchase. Extended hardware and software maintenance programs available.