



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

Key Features

- **Functional replacement for Cisco CIP I & II, IBM 3172, 2216 & 3174 PU2 Gateways**
- **Configurations to support SNA LLC Gateways and TN3270 Gateways**
- **Integrated DLSw Support**
- **ESCON/FICON support**
- **Client connection via Ethernet or Token Ring**
- **Web-based configuration**
- **Redundant RAID drives**
- **Redundant hot swappable power supplies and fans**

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 and TN3270.

The CNA-8000 base system is equipped to provide SNA LLC and SDLC gateway functions using an XCA interface to VTAM. Internal DLSw gateway support provides transportation of SNA traffic over IP, eliminating LLC traffic from the local LANs. 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

Host interfaces can be a single ESCON adapter capable of supporting 16 CU images (LPARs) and 256 sub-channels. By adding a second ESCON

interface, up to 32 CU images (LPARs) and 512 sub-channels are supported.

The CNA-8000 can also be equipped with one of three different FICON interface adapters. A single port FICON channel interface adapter, dual port FICON adapter providing two independent FICON interfaces, or the quad port FICON adapter providing four independent FICON interfaces. Each interface on a FICON adapter is capable of supporting up to 16 CU images (LPARs) and 256 sub-channels. The FICON interfaces auto-negotiate 2.125 Gbps, 4.25 Gbps, or 8.5 Gbps clock rates with the attaching host interface for maximum throughput.

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 SNA LLC2 protocol. 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 16,000 total sessions. Client sessions appear to the host as SNA 3270 sessions.



Base System

- **Cabinet:** 19" 3U rack mountable server
- **Processor:** Intel Core 2 Duo 3+ GHz
- **Drives:** Dual SATA fixed drives operating in RAID 1 mirroring
- **Power Supplies:** Redundant Hot Swappable dual power supplies supports "Dual Power Cord Initiative"
- **System cooling:** Three Hot-swappable internal logic fans and two Hot-swappable rear cabinet exhaust fans
- **Host Interface:** None in base unit, see "Optional Hardware"
- **Client Interfaces:** Two 10/100/1000 Base-T Ethernet interfaces with RJ45 connectors
- **Expansion slots:** Four 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.

Optional Hardware - Host (Upstream) Interfaces

Notes:

- At least one host interface must be installed
- One PCI-Express slot is available to support one PCI-Express FICON adapter
- Four PCI-x slots are available for optional interface adapters
- **Single Port FICON Adapter** - provides one full function 8 Gb FICON interface
- **Dual Port FICON Adapter** - provides two full function independent 8 Gb FICON interfaces
- **Quad Port FICON Adapter** - provides four full function independent 8 Gb FICON interfaces
- **Single port ESCON Adapter** - up to two adapters may be installed

Optional Hardware - Client (Downstream) Interfaces

- **Quad Ethernet Adapter** - provides four additional 10/100/1000 Base-T Ethernet interfaces (two per unit)
- **Single port Token Ring Adapter** - provides 4/16/100 Mbps TR Interface

Optional Software

- **TN3270 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).
- **TN3270 Client Activation III** - increases the machine TN3270 client total to 16,000 (requires TN3270 Gateway Personality Feature and TN3270 Client Activation II).
- **XCA Additional Connection Activation** - provides support for an additional 2048 VTAM switched node definitions for PU2.0 and PU2.1 platforms.
Note - The ability to support VTAM switched node definitions for up to 2048 PU2.0 and PU2.1 platforms is included in the CNA-8000 base system.

Power/Environmental

- 100-240 VAC, 50-60 Hz
- 50 degree to 95 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