



FEP-4600 Communications Controller

The FEP-4600 is a powerful, cost-effective replacement solution capable of replacing many of the traditional 3745/46 FEP features. A major benefit of the FEP-4600 is the elimination of costly NCP/SSP or EP software licenses, yet uniquely supports cross-domain (PU4/SNI) communications as well as providing SNA and BiSync Communications to the mainframe.

Key Features

- **Functional 3745/46 Replacement**
- **Support for multiple high-speed interfaces**
- **No Software Licenses:**
 - No NCP
 - No SSP
 - No EP
- **Transparent to:**
 - Application Users
 - Remote 37xx's
- **Legacy Protocols:**
 - SNA/SDLC (PU2/PU4/SNI)
 - BiSync 3270/RJE
 - Token Ring (NTRI) LLC using XCA technology
 - Ethernet LLC using XCA technology
 - Integrated PU2 DLSw Support
 - SNI over IP
- **ESCON/FICON support**
- **Web-based configuration and management**

PU4 SNI Support

The Visara FEP-4600 is unique in its ability to provide full PU4 SNI Cross-Domain computing without the need for expensive NCP software suites. The PU4 SNI traffic can be routed over all the traditional interfaces on the FEP-4600 including ESCON and FICON for mainframe to mainframe or LPAR to LPAR connections.

In addition to the traditional SNI connections, FEP-4600 products provide **encrypted** SNI traffic over standard IP networks. This capability is supported between featured FEP-4600s and eliminates the need for DLSw routers at both ends of the network.

Robust 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 FEP-4600 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.

Extensive I/O Connectivity

The FEP-4600 can be configured to support a variety of I/O intensive topographies using a combination of available interface adapters.

The base configuration includes two 10/100/1000 Mbps Ethernet interfaces supporting Link Layer Control (LLC), IP protocols. Available Quad-Serial Interface adapters (QSI) provide four high-speed communication lines that conform to the RS-232, V.35, and X.21 specifications. The optional single port Token Ring adapter supports LLC and includes automatic ring speed detection and connectors for STP or UTP cable types. The available Quad-BiSync Adapter (QBA) provides both 3270 Point-to-Point and Multi-Port polled BiSync protocols for legacy device connections.

Simple/Flexible Configuration and Monitoring

The FEP-4600 is designed to be configured, managed and monitored using any standard web browser. The FEP-4600's web based management interface allows privileged operators to perform activities such as: full configurations, modifications to existing configurations, monitor line and node activity and status, monitor unit hardware statuses such as fan performance, temperature, power supply performance, etc.

The FEP-4600 is based on state-of-the-art architecture and technology, with redundant hot swappable power supplies, fans, and drives. Two SATA drives operate in a RAID 1 mirroring configuration; full system back-ups are supported by the included CD/DVD drive.

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.

Host Software Requirements

Operating System - z/OS, z/VM, z/VSE, z/TPF, OS/390, VSE/ESA, MVS, VM/ESA, TPF

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 8.5 Gbps FICON interface[†]
- **Dual Port FICON Adapter** - provides two full function independent 8.5 Gbps FICON interfaces
- **Quad Port FICON Adapter** - provides four full function independent 8.5 Gbps 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 (one per unit)
- **Single port Token Ring Adapter** - provides 4/16/100 Mbps TR Interface
- **Quad BiSync Adapter (QBA)** - provides four Serial Synchronous interfaces supporting both 3270 Point-to-Point and Multi-Point polled BiSync protocol at speeds up to 56kb.
- **Quad Serial Interface (QSI)** - provides four Serial Synchronous interfaces supporting SDLC communications at up to E1/T1 speeds. Available to support RS232 or V.35 physical interfaces.
- **X.21 Converter** - for use with V.35 QSI

Optional Software Feature Activations

- **SNI over IP Activation** - provides host to host SNI communications over LAN/WAN IP networks. Supports 16 connections.
- **SNI/IP Additional Connection Activation** - Add 8, Add 16, Add 24 additional connections.
- **XCA Activation** - provides support for VTAM switched node definitions for up to 2048 PU2.0 and PU2.1 platforms.
- **XCA Additional Connection Activation** - Add 2048 PU2.0 and PU2.1 platforms.
- **BSC Activation** - provides support for the BiSync protocol used with the Quad BiSync Adapter.

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



[†]FICON interface will not be available at initial product release. Contact your Visara Account Executive for interface availability date. FICON interface will be a field upgradeable feature.