

Focus 3210 Line Card

The Focus 3210 Line Card provides high-speed Ethernet connectivity between network elements (NEs) and operations support systems (OSS) in a carrier's network remote site(s). The Focus is capable of providing 10/100/1000BaseTX connectivity to and from intelligent network elements or other networking components where Switch or Scout products are locally and remotely deployed. The Focus is also capable of providing optical gigabit connectivity to extend or stack additional Focus units.

Reduce Capital Cost

Use Line card Ethernet switching to aggregate and segment connections to Network Elements rather than larger rack and stack solutions

Lower operational expenses

The Focus 3210 scripting platform allows for custom applications to be added without the need for additional hardware costs.

Increase staffing efficiencies

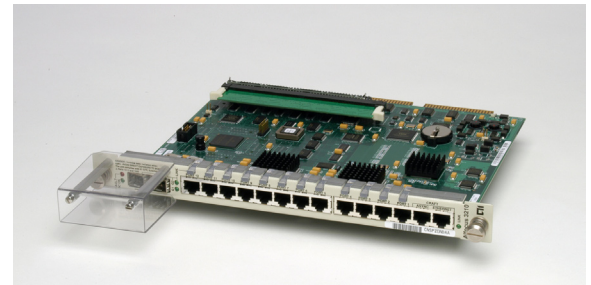
The ease of use CLI permits staff to quickly deploy and trouble shoot

Improve reliability

The Focus 3210 delivers high reliability and is backed by NEBS Level 3, CE, and UL certification

Focus Applications

The Focus 3210 delivers a highly scalable solution to provide high speed Ethernet connectivity from Operational Support Systems (OSS) to Ethernet based Network Elements (NE). Its a single, flexible product that supports multiple applications. The Focus 3210 is an integral part of today's most intelligent strategies for monitoring, managing and surveying the performance of your network.



Key features of the Focus 3210 include:

- System diagnostics
- Performance monitoring
- Stackable
- 10/100 auto-sense
- Cable auto-sense
- Half or full duplex user provisionable
- Login user level security
- Supports Bootp and TFTP
- Spanning Tree support (802.1d)
- RMON Groups 1,2,3, and 9 Support
- MAC address learning, filtering, and security
- User-selectable individual 10/100 Port modes
- Port-based VLAN configuration
- Pluggable Gigabit SFP's

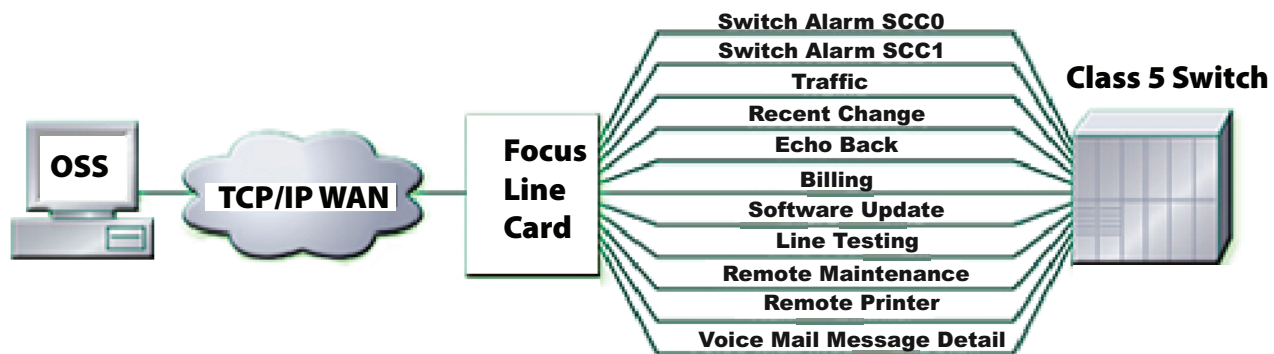


Figure 1: The Focus Line Card provides network elements and OSS systems with a seamless migration to IP.

Focus 3210 Line Card

FUNCTIONAL SPECIFICATIONS

Input/output Communication Ports:

- Twelve 10/100 BaseT auto-sensing Ethernet ports

Ethernet ports

- Gigabit Ethernet ports
- Two 1000Mbps ports that support 850nm and 1310nm pluggable small form factor(s) SFPs (see Table 1 and Table 2)

Supported Protocols:

- 802.3 Ethernet
- TACACS+ AAA
- RADIUS
- FTP
- Telnet
- SNMP

Management & Management Access:

- SNMP
- Telnet
- Multi-level security access
- Mac filtering
- Mac security
- FTP
- Craft access port

Status Indicators:

- Port alarm status
- Ethernet link status
- Full-duplex
- High-speed

Events/Alarms:

- SNMP alarm and event reporting

Supported Chassis Systems:

- Switch 180
- Switch 130
- Switch 120
- Switch 110

PHYSICAL SPECIFICATIONS

Depth: 9.1 in., (23.11 cm)
Height: 11.9 in., (30.23 cm)
Width: 1.13 in., (2.87 cm)
Weight: 2 lbs. (.91 kg)
Rack mounting: 19- or 23-inch racks, as determined by Switch chassis systems

Power Requirements:

- Via Switch backplane
- 13W power consumption
- 3.0 A, maximum @ 5V current draw

Compliance/Certifications/Standards:

- NEBS level 3 compliant

Table 1: SFP-850 Specifications

Specification	Description
Peak wavelength	840 nm minimum to 860 nm maximum
Spectral width of laser	0.85 nm
Minimum launch power	-10 dBm
Maximum launch power	-4 dBm
Minimum receive level	-17 dBm NOTE: The receive level is specified at a Bit Error Rate (BER) less than 1E-12
Maximum receive level	0 dBm NOTE: The receive level is specified at a Bit Error Rate (BER) less than 1E-12

Table 2: SFP-1310 Specifications

Specification	Description
Peak wavelength	1270 nm minimum to 1355 nm maximum
Spectral width of laser	4.0 nm
Minimum launch power	-11 dBm
Maximum launch power	-3 dBm
Minimum receive level	-19 dBm NOTE: The receive level is specified at a Bit Error Rate (BER) less than 1E-12
Maximum receive level	-3 dBm NOTE: The receive level is specified at a Bit Error Rate (BER) less than 1E-12

Phone **+1-503-643-1681**
Service and Support **800-733-5511**