

Router 8/16 port 100Mbit - TEMPEST Level A/ EMSEC/ RÖS U1

Compromising Emanations protected Cisco 4321 Integrated Services Router

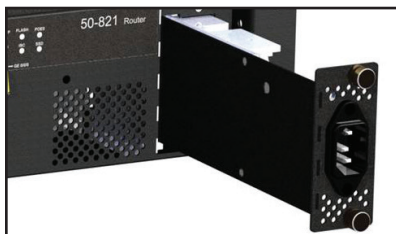
Fibersystem router is built around a standard Cisco 4321 Integrated Services Router, with Fiber Optical converters added. All is enclosed in a EMC-proof enclosure to eliminate compromising emanations. At order the router is configured with optional number of 100BaseFX Fiber Optical interfaces, 8 or 16 ports.

Features

- EMC-shielded
- Cisco 4321 Integrated Services Router, standard Cisco configuring routines
- Switch module Cisco NIM-ES2-8
- 8GB RAM memory MEM-4300-4GU8G= (2x4GB)
- Fiber Optical interfaces, 100BaseFx
- Optional 8 to 16 ports
- 2 height units (2U), rack-mountable
- Configuring without breaking any seal
- Integrated LC shutter to ensure dustfree connectors
- Replaceable power supply module (also fits Fibersystem 24 Channel Fo converter 100Mbit)
- WAN ports, consol port and USB port accessible only

Installation and configuration

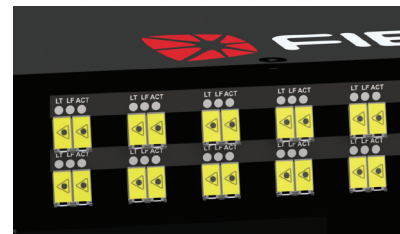
The router enclosure connects to standardized Fiber Optical interfaces. Consol port and USB stick are accessible behind a hatch. The Cisco normal configuration routines can be used.



Replaceable power supply module



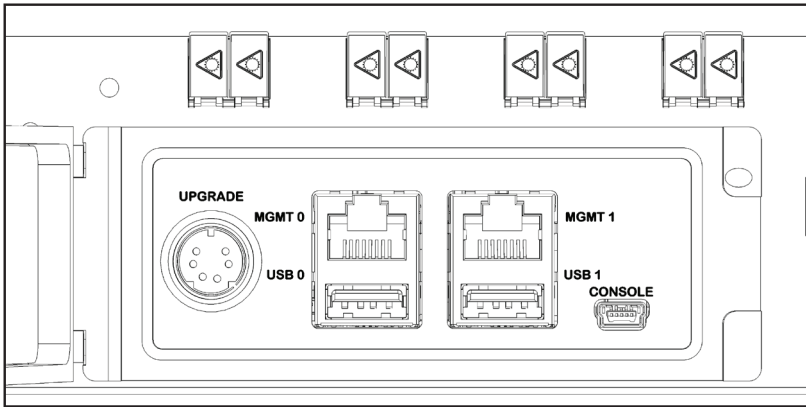
Configuration hatch with Rotoseal tampering protection.



LC connector shutters module

Fibersystem is a leading developer and provider of Secure IT products with more than 35 years of experience delivering dependable solutions to global providers in Telecom, Infrastructure, Energy, Nuclear and Defence industry.

All our Fibersystem products are made in Sweden and can be customized according to customer needs!



Connectors under configuration hatch

Upgrade (Config. Fibersystem HW)

Protocol	JTAG
Connector	6 Pin Mini DIN
Number of connectors	1

MGMT 0 (Config. Cisco 4321)

Data speed	100Mbps
Protocol	100BaseTX
Connector	RJ45
Number of connectors	1

MGMT 1

Data speed	Not connected
Protocol	Not connected
Connector	RJ45
Number of connectors	1

USB 0 (Config. Cisco 4321)

Protocol	USB 2
Connector	Type A Female
Number of connectors	1

USB 1

Protocol	Not connected
Connector	Type A Female
Number of connectors	1

Console (Config. Cisco 4321)

Protocol	USB 2
Connector	Type Mini-A Female
Number of connectors	1

Fiber Optical WAN links

Data speed	100Mbps
Protocol	100BaseFX
Wavelength	1300 nm
Fiber Optical connector	LC
Number of connectors	1
Fiber	Multi mode 50/125um or 62.5/125um
Optical system budget	13dB in 62.5/um. 9dB in 50/125um fiber
Typical distance	0 - 2km (3dB system margin for 50/125um and 6dB for 62.5/125um)

Fiber optic LAN links

Data speed	100Mbps
Wavelength	100BaseFX
Fiber optical connector	1300 nm
Number of connectors	LC
Fiber	8/16
Optical system budget	Multi mode 50/125um or 62.5/125um 13dB in 62.5/um. 9dB in 50/125um fiber
Typical distance	0 - 2km (3dB system margin for 50/125um and 6dB for 62.5/125um)

Switch module

Cisco NIM-ES2-8

RAM-memory 8GB

MEM-4300-4GU8G= (2x4GB)

Environmental

Temperature range	Operating: +10 to +40 °C. Storage: 0 to +70 °C.
Relative humidity	Operating: 5 to 95%. Storage: 5 to 95% non condensing.

Regulatory compliance

Safety	CE
Environmental	Complies with appropriate requirements of RoHs and WEEE

Dimensions and Weight

Physical size	88.1 (H), 449 (W), 360 (D) mm / 3.47 (H), 17.68 (W), 14.17 (D) inch
Weight	12 kg / 26 lbs

Software

Cisco ONE software licensing capabilities include Intelligent WAN, advanced security, and Unified Communications.

Network service capabilities include Intelligent Path Control, WAN Optimization, and Intelligent Caching with Akamai.

Security services include intrusion prevention and detection, firewall, and VPN.

Router Cisco 4321 is ordered separately or customers router is delivered to Fibersystem for enclosure.

Ordering information

Product number	Model	M-Number	Description
60-00-7288	50-821	M3196-004010	Router 8 port 100Mbit (TEMPEST Level A/ EMSEC/ RÖS U1)
60-00-7443	50-821	M3196-004110	Router 16 port 100Mbit (TEMPEST Level A/ EMSEC/ RÖS U1)
60-00-7092		M2531-265010	Replaceable power supply module