



FX to TX Tap

Net Optics FX to TX Tap simplifies connecting GigaBit copper monitoring and security devices to FX fiber network links. Convert FX to TX and tap into the link with one device, reducing cost and complexity at the same time. FX to TX Taps support passive monitoring of links at speeds at 100 Mbps.

The FX to TX Taps establish permanent passive access ports without introducing a point of failure or disturbing other network connections. Without an IP address, monitoring devices are isolated from the network, dramatically reducing their exposure to attacks. However, the monitoring device connected to the Tap still sees all full-duplex traffic, including Layer 1 and Layer 2 errors.

For extra uptime protection, Net Optics FX to TX Taps offer redundant power connections. Should the primary power source fail, the Tap automatically switches to the backup power source. All network and monitoring cables necessary for plug-and-play deployment are included.

Passive, Secure Technology

- Provides passive access at speeds at 100 Mbps without data stream interference or introducing a point of failure
- Access FX links with copper devices without a separate converter
- Permanent in-line installation without affecting network performance
- No IP address is needed for the Tap or monitoring device, enhancing monitoring security
- Redundant power ensures monitoring uptime

Ease of Use

- LED indicators show redundant power and link status
- Front-mounted connectors make installation and operation quick and easy
- Silk-screened application diagram illustrates all connections for easy deployment
- Optional 19-inch rack frames hold up to 2 Taps
- Tested and compatible with all major manufacturers' monitoring devices, including protocol analyzers, probes, and intrusion detection/prevention systems

Certifications:

- Fully RoHS compliant



Technical Specifications:

Operating:

Operating Temperature: 0°C to 55°C

Storage Temperature: -10°C to 70°C

Relative Humidity: 10% min, 95% max, non-condensing

Mechanical:

Power Supply:

Input: 100-240V, 0.5A, 47-63Hz, Output: 5V 3A

Dimensions: 1.125" high x 6.5" deep x 6.0" wide

Splitter:

Fiber Type:

Corning Multimode 62.5/125µm, wavelength 1300nm

Split Ratio	Network Port	Monitor Port
	Insertion Loss	Insertion Loss
80/20	1.8 dB	8.1 dB
70/30	2.4 dB	6.3 dB
60/40	3.1 dB	5.1 dB
50/50	4.5 dB	4.5 dB

Fiber Type:

Corning Singlemode 8.5/125µm, wavelength 1310nm

Split Ratio	Network Port	Monitor Port
	Insertion Loss	Insertion Loss
80/20	1.3 dB	8.0 dB
70/30	2.0 dB	6.1 dB
60/40	2.8 dB	4.8 dB
50/50	3.7 dB	3.7 dB

Cable Interface:

Copper Cable Type:

22-24 AWG unshielded twisted pair cable, CAT5/CAT5e

Copper Link Length: 100 meters

Fiber Link Length: 2km on 62.5m Multimode Fiber, 5km on 8.5m Singlemode Fiber

Connectors:

Monitoring Ports: (2) RJ45, 8-pin connectors

Network Ports: (2) Multimode Duplex SC connectors

Part Number	Description
CVT-MMn*/CU	FX to TX Tap, Multimode
CVT-SMn*/CU	FX to TX Tap, Singlemode
RK-2	Two-Slot Rackmount Frame

*"n" represents split ratio: 5 is 50/50, 4 is 60/40, 3 is 70/30, and 2 is 80/20. All products include a 1 year manufacturer's warranty.

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