



# GigaBit SX to TX Tap

Net Optics GigaBit SX to TX Tap simplifies connecting GigaBit copper monitoring and security devices to SX fiber network links. Convert SX to TX and tap into the link with one device, reducing cost and complexity at the same time. GigaBit SX to TX Taps support passive monitoring of GigaBit links at speeds at 1000 Mbps.

The GigaBit SX 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 GigaBit SX to TX Taps offer redundant power connections. Should the primary power source fail, the Tap automatically switches to the backup power source. Full-duplex monitoring is a snap with supplied cables. All network and monitoring cables necessary for plug-and-play deployment are included.

## Passive, Secure Technology

- Provides passive access at speeds at 1000 Mbps without data stream interference or introducing a point of failure
- Access SX links with GigaBit copper devices without a separate converter
- Permanent in-line installation without affecting network performance
- Passes all full-duplex traffic (including errors) from all layers for comprehensive troubleshooting
- 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
- Connectors are perfectly angled to reduce cable strain
- Silk-screened application diagram illustrates all connections for easy deployment
- Optional 19-inch rack frames hold up to 3 or 12 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:

### Splitter Specifications:

- Split Ratio:** 50/50, 60/40, 70/30
- Fiber Type:** Corning Multimode 62.5/125µm
- Wave Length:** 850nm
- Insertion Loss:** Network Port: 4.5dB

### Operating Specifications:

- Operating Temperature:** 0°C to 55°C
- Storage Temperature:** -10°C to 70°C
- Relative Humidity:** 10% min, 95% max, non-condensing

### Mechanical Specifications:

- Power Supply:**  
Input: 100-240V, 0.5A, 47-63Hz, Output: 12V 1.5A  
-48V DC typical, -36V DC min, -75V DC max
- Dimensions:** 1.125" high x 6.5" deep x 4.5" wide

### Fiber Optic Interface:

- Connector:** Class I, eye-safe, laser emitter type. These Class I Lasers conform to the applicable requirements per US 21 CFR (J) and EN 60825-1, also UL 1950 applications.
- Optical Transmitter Wave Length:** 850nm nominal
- Output Power:** -9.5 dB min, -4 dB max
- Optical Receiver Input Sensitivity:**  
0 dB min, -17 dB max

### Cable Interface:

- Copper Cable Type:**  
22-24 AWG unshielded twisted pair cable, CAT5/CAT5e
- Link Distance Supported:** 100 meters

### Connectors:

- Monitoring Ports:** (2) RJ45, 8-pin connectors
- Network Ports:** (2) Multimode Duplex LC connectors

Part Number	Description
CVT-SXn*/GCU	GigaBit SX to TX Tap
CVT-SXn*/GCU-48V	GigaBit SX to TX Tap -48V DC
RK-12V2	Twelve-Slot Rackmount Frame
RK-3V2	Three-Slot Rackmount Frame

\* "n" is the split ratio where 5 is 50/50, 4 is 60/40, and 3 is 70/30. All products include a 1 year manufacturer's warranty. An additional 1 or 2 year extended warranty may also be purchased.

5303 Betsy Ross Drive • Santa Clara, CA 95054

Tel: +1 (408) 737-7777 • www.netoptics.com