



10 GigaBit In-line Regeneration Tap™ with SFP+ Monitor Ports Multimode and Singlemode Fiber

Net Optics 10 GigaBit Regeneration Taps solve the key physical layer challenges of multi-device monitoring for 10 Gigabit networks. For a complete picture of network health, these Taps connect up to eight different network management and security devices at any single 10 Gigabit network location.

Keep your intrusion detection and prevention systems, protocol analyzers, RMON probes, and other security devices productive with a single Regeneration Tap. Maximize resources and save on access points when multiple devices can monitor the same traffic simultaneously through a single Regeneration Tap.

These 10 GigaBit Regeneration Taps have SFP+ monitor ports so they can attach to monitoring equipment with any type of interface: singlemode fiber, multimode fiber, and copper. Just plug in the appropriate SFP+ transceiver modules for as many and whatever types of tools you want to connect. (1G SFP transceivers are not supported; the Regeneration Tap does not perform data rate conversion.)

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 as if it were inline, including Layer 1 and Layer 2 errors.

For extra uptime protection, Net Optics Taps offer redundant power connections. Should the primary power source fail, the Tap automatically switches to the backup power source. Power LEDs on the front of the Tap indicate the current power.

Passive, Secure Technology

- Enables real-time monitoring of a single 10 Gigabit link with up to 8 monitoring devices
- Provides complete full-duplex visibility at 10 Gbps without data stream interference or introducing a point of failure
- Passes all traffic—including errors—from all layers for comprehensive troubleshooting
- No IP address is needed for the Tap or monitoring device, enhancing security
- Redundant power ensures monitoring uptime

Ease of Use

- LED indicators show redundant power, speed, link, and activity status
- Front-mounted connectors support easy installation and operation
- No custom analyzer cables—each half-duplex data stream has its own connector
- Compatible with all major manufacturers' monitoring devices, including protocol analyzers, probes, and intrusion detection systems

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5303 Betsy Ross Drive • Santa Clara, CA 95054

+1 (408) 737-7777

Technical Specifications:

Splitter:

Split Ratio: 50/50, 70/30

Multimode: Corning 62.5µm or 50µm, wavelength 850nm (SR)

Insertion Loss (network port): 4.5 dB max

Singlemode: Corning 8.5µm, wavelength 1310nm (LR)

Insertion Loss (network port): 3.7 dB max

Fiber Optic Interface:

Laser: 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.

Performance:

Drops: No packets dropped from 0 to 10 Gbps

Average Latency: 20 nanoseconds

Environmental:

Temperature: 0°C to 40°C (Operating), -10°C to 70°C (Storage)

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

Mechanical:

Dimensions: 1.75" high x 13" deep x 17" wide, Weight: 5 lbs

Electrical:

Redundant Power Supplies, each:

Input: 100-240VAC, 0.5A, 47-63Hz

DC Input: -48VDC nominal, -36 to -72VDC, 1A

Power Consumption: 45W

Connectors:

Monitoring Ports: (16) SFP+ cages (SFP+ modules are sold separately)

Network Ports: (2) LC connectors

Certifications:

MET (UL), CE, FCC, VCCI, C-Tick, RoHS, WEEE, IEEE 802.3 compliant

Part Number	Description
RG-830X	Regen Tap, 8x1 GigaBit In-line MM 62.5µm 50:50
RG-833X	Regen Tap, 8x1 GigaBit In-line MM 62.5µm 70:30
RG-840X	Regen Tap, 8x1 GigaBit In-line MM 50µm 50:50
RG-843X	Regen Tap, 8x1 GigaBit In-line MM 50µm 70:30
RG-850X	Regen Tap, 8x1 GigaBit In-line SM 8.5µm 50:50
RG-853X	Regen Tap, 8x1 GigaBit In-line SM 8.5µm 70:30

Add -DC to the part number for the -48VDC model.

SFP+ Transceiver Kits

SFP+KT-SR	10G Fiber SR SFP+ Transceiver with cable
SFP+KT-50SR	10G Fiber SR 50µm SFP+ Transceiver with cable
SFP+KT-LR	10G Fiber LR SFP+ Transceiver with cable

SFP+ transceivers are required for operation and are sold separately

Warranty

All Net Optics products come standard with a 1 year manufacturer's warranty. Additional Service Plan options to extend warranty coverage are available for purchase; visit www.netoptics.com for details.