



# GigaBit Regeneration Tap Multimode and Singlemode 8x1

Net Optics 8x1 GigaBit Regeneration Taps solve the key physical layer challenges of multi-device monitoring for GigaBit networks. For a complete picture of network health, these Taps connect up to eight different network management and security devices at any single 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 link traffic simultaneously through a single Regeneration Tap.

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 in-line, 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, simultaneous monitoring of a single GigaBit link with up to eight monitoring devices
- Provides complete full-duplex visibility at 1000 Mbps 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 monitoring 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
- Connectors are perfectly angled to reduce cable strain
- Silk-screened application diagram illustrates all connections for easy deployment
- Optional custom monitoring cables support easy full-duplex monitoring by sending each side of the signal to a separate monitoring device NIC
- Tested and compatible with all major manufacturers' monitoring devices, including protocol analyzers, probes, and intrusion detection/prevention systems

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## Technical Specifications:

### Operating:

Operating Temperature: 0°C to 40°C  
Storage Temperature: -10°C to 70°C  
Relative Humidity: 10% min, 95% max, non-condensing

### Mechanical:

Redundant Power Supplies:  
Input: 100-240VAC, 0.5A, 47-63Hz  
Dimensions: 1.75" high x 10.5" deep x 17" wide

### Splitter:

Split Ratio: 50/50  
Fiber Type: Multimode Corning 62.5µm, wavelength 850nm  
Insertion Loss:  
Network Port: 4.5 dB, Monitoring Port: 4.5 dB max  
Fiber Type: Singlemode Corning 8.5µm, wavelength 1310nm  
Insertion Loss:  
Network Port: 3.7 dB, Monitoring 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.  
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  
Optical Transmitter Wave Length: 1310nm nominal  
Output Power: -10 dB min, -3 dB max  
Optical Receiver Input Sensitivity:  
-3 dB min, -20 dB max

### Connectors:

Monitoring Ports: (8) Duplex SC connectors  
Network Ports: (2) Duplex SC connectors

### Certifications:

Fully RoHS compliant

Part Number	Description
RGN-SX-IL8*	8x1 GigaBit SX Regeneration Tap
RGN-LX-IL8*	8x1 GigaBit LX Regeneration Tap

\*Also available in 4x1 and 2x1 models. All products include a 1 year manufacturer's warranty. An additional 1 or 2 year extended warranty may also be purchased.