



# 10 GigaBit In-Line Regeneration Taps

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 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 source.

## Passive, Secure Technology

- Optimized and tested for 10 GigaBit fiber networks with 8.5µm fiber
- Enables real-time, simultaneous monitoring of a single 10 GigaBit link with up to eight 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 monitoring security
- Redundant power ensures monitoring uptime

## Ease of Use

- LED indicators show link status and redundant power
- 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



## 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:

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 50µm, wavelength 850nm (SR)

Insertion Loss:

Network Port: 4.5 dB, Monitoring Port: 4.5 dB max (SR)

### 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 (SR)

Output Power:

-9.5 dB min, -4 dB max (SR)

Optical Receiver Input Sensitivity:

0 dB min, -17 dB max (SR)

### Connectors:

Monitoring Ports: (8) Duplex SC connectors

Network Ports: (2) Duplex SC connectors

### Certifications:

Fully RoHS compliant

Part Number	Description
RGN-50SR-IL8	8x1 10 GigaBit SR In-Line Regeneration Tap
RGN-SR-IL4	4x1 10 GigaBit SR In-Line Regeneration Tap

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

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\*multi-mode model shown

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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:

Singlemode Corning 8.5µm, wavelength 1310nm (LR)

Insertion Loss:

Network Port: 3.7 dB, Monitoring Port: 3.7 dB max (LR)

### 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: 1310nm nominal (LR)

Output Power: -10 dB min, -3 dB max (LR)

Optical Receiver Input Sensitivity:

-3 dB min, -20 dB max (LR)

### Connectors:

Monitoring Ports: (8) Duplex SC connectors

Network Ports: (2) Duplex SC connectors

### Certifications:

Fully RoHS compliant

Part Number	Description
RGN-LR-IL8*	8x1 10 GigaBit LR In-Line Regeneration Tap
RGN-LR-IL4*	4x1 10 GigaBit LR In-Line Regeneration Tap

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