

Ixia Net Optics 1Gb Fiber Port Aggregator



The Ixia Net Optics 1Gb Fiber Port Aggregator with SFP monitor ports provides ultra-efficient access to critical links. This pioneering technology enables any two monitoring devices to simultaneously monitor a full-duplex link – using only one NIC per device.

Typically, full-duplex monitoring with a network tap requires two NICs – one interface for each side of the tapped full-duplex connection. The 1Gb Fiber Port Aggregator tap combines and regenerates these streams, sending all aggregated data out two passive monitoring ports. The best part of this innovation is the generous buffers that ensure traffic isn't dropped during bursts.

The Net Optics 1Gb Fiber Port Aggregator is a simple plug-and-play solution addressing the fact that many monitoring systems only offer a single channel NIC, limiting full-duplex visibility. The 1Gb Fiber Port Aggregator with SFP monitor ports requires the purchase of one or two SFP conversion kits. For extra uptime protection, Ixia Net Optics taps offer redundant power connections. Should the primary power source fail, the tap automatically switches to the backup power source. Even if power is lost and reapplied, the network is not affected. All network and monitoring cables necessary for plug-and-play deployment are included.



Key Benefits

- Supports full-duplex monitoring with a single NIC, increasing monitoring efficiency
- Regeneration Tap technology enables two devices to simultaneously monitor all aggregated traffic – using only one NIC per device
- 1Gb memory buffer prevents data loss during excessive traffic loads
- Provides complete full-duplex visibility at 1Gbps 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
- Redundant power ensures monitoring uptime
- LED indicators show redundant power, speed, link, and activity status
- Front-mounted connectors support easy installation and operation
- Monitoring and network cables included for plug-and-play deployment
- Optional 19-inch rack frames hold up to two Taps
- Tested and compatible with all major manufacturers' monitoring devices
- Small form factor pluggable (SFP) Monitor Ports increase monitoring options
- Tested and compatible with all major manufacturers' monitoring devices, including protocol analyzers, probes, and intrusion detection/prevention systems

Specifications										
Operating Specifications	<ul style="list-style-type: none"> • Operating Temperature: 0°C to 40°C • Storage Temperature: -10°C to 70°C • Relative Humidity: 10% min, 95% max, non-condensing 									
Mechanical Specifications	<ul style="list-style-type: none"> • Redundant Power Supplies: <ul style="list-style-type: none"> ○ Input: 100-240VAC, 0.5A, 47-63Hz ○ Output: 12V 3A • Dimensions: 1.125" high x 11" deep x 8.75" wide 									
Splitter	<p>Fiber Type:</p> <ul style="list-style-type: none"> • SX: Corning Multimode 50 or 62.5/125µm, wavelength 850nm • LX: Corning Singlemode 8.5/125µm, wavelength 1310nm <table border="1"> <thead> <tr> <th>Split Ratio</th> <th>Network Port Insertion Loss</th> <th>Monitor Port Insertion Loss</th> </tr> </thead> <tbody> <tr> <td>60/40</td> <td>3.1 dB</td> <td>5.1 dB</td> </tr> <tr> <td>50/50</td> <td>4.5 dB</td> <td>4.5 dB</td> </tr> </tbody> </table>	Split Ratio	Network Port Insertion Loss	Monitor Port Insertion Loss	60/40	3.1 dB	5.1 dB	50/50	4.5 dB	4.5 dB
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60/40	3.1 dB	5.1 dB								
50/50	4.5 dB	4.5 dB								
Copper	<ul style="list-style-type: none"> • Copper Cable Type: 22-24 AWG unshielded twisted pair cable, CAT5/CAT5e • Link Distance Supported: 100 meters 									
Connectors	<ul style="list-style-type: none"> • Monitor Ports: (2) SFP slots, SFPs ordered separately • Network Ports: (2) Duplex LC connectors 									
Certifications	Fully RoHS compliant									

Product Ordering Information

TPA-SX4-SFP

GigaBit SX Port Aggregator Tap, 60:40

TPA-SX5-SFP

GigaBit SX Port Aggregator Tap, 50:50

TPA-LX5-SFP

GigaBit LX Port Aggregator Tap, 50:50

RK-iTP2

Two-Slot Rack Mount Frame

**Order one or two SFPs with each GigaBit Port Aggregator.*

All products include a 1 year Manufacturer's Warranty. An additional 1 or 2 year Extended Warranty may also be purchased.