

The World's Only Intelligent Tap

iTap 10 GigaBit Port Aggregator with XFP Monitor Ports

Aggregation + information =
network monitoring flexibility



intelligent tap

Access

- Real time traffic utilization levels
- Size and time of the greatest traffic peaks
- Counters for total packets, total bytes, CRC errors, and more
- Status for system, link, and power

Remote

- Browser-based Web Manager
- Management Information Base (MIB) for third-party SNMP tools
- Platform-based System Manager
- SNMP traps indicate status changes for system, link, power, and threshold

Control

- Turn off Management and Monitor Ports
- Set utilization alarm threshold
- Reset statistics counters and peak data
- Turn off LCD display
- Packet Slicing

Easy to Use

- Uses only one monitoring device NIC
- At-a-glance monitoring from front panel
- Completely passive and device neutral
- Cables included
- Timestamping
- Packet slicing
- Tap and Aggregation modes

iTap™

iTap Port Aggregators make network monitoring easier. The combination of a permanent, passive access point and remote monitoring of key traffic indicators increases management options and expedites your response to troubled links. When an iTap Port Aggregator detects high utilization, it warns you with LEDs on the unit and notifications to monitoring software. You have no need for other time-consuming tools to see these trouble spots.

iTap Port Aggregators display real-time link utilization levels in both directions, including the size and time of the last peak. The iTap Port Aggregator is accessible from remote interfaces that provide information and control from anywhere in the network. This gives you both the information and passive access point you need to respond quickly to network events.

For greater flexibility and response speed, use iTap Port Aggregators with the Net Optics Matrix Switches; control deployment of your analyzers from one point without disturbing any network connections.

Best in Aggregation

The iTap Port Aggregator combines and regenerates both directions of a full-duplex stream, sending all aggregated traffic to one or two separate passive monitoring ports. Typically, full-duplex monitoring with a network tap requires two NICs (or a dual-channel NIC)—one interface for each side of the full-duplex link. The Net Optics iTap Port Aggregators; however, enable one or two devices to simultaneously monitor a full-duplex link using only one NIC per device.

After the traffic has been aggregated to a single flow, it is usually no longer possible to distinguish the utilization levels of each side of the bi-directional link. The iTap Port Aggregator addresses this issue by tracking these levels prior to aggregation, keeping this vital information easily accessible from both remote and command line interfaces.

With its visual display, remote interfaces, and Half-Duplex as well as Full Duplex modes, the Net Optics iTap Port Aggregator creates an entirely new, easy-to-implement and easy-to-use category of passive access devices.

Features and Benefits

Front Panel Display and LEDs	Real-time utilization and peak traffic information displayed on the front panel saves you time and money spent using other tools to get basic information. Alarm LEDs indicate if traffic levels have exceeded a set threshold, allowing you to respond quickly to changing traffic conditions.
Net Optics Web Manager	Without any specialized software, you can access the traffic information monitored by any iTap Port Aggregator. All you need is a computer with a browser and access to the IP address of the iTap Port Aggregator. No matter where you are, you can control your iTap Port Aggregator and monitor traffic information.
Net Optics System Manager	Net Optics System Manager uses SNMP to give you single-point control and visibility into any link in the network with an iTap Port Aggregator anywhere in the world. When distributed on strategic links, iTap Port Aggregators provide baseline information and early warning alarms to help you deploy your security and monitoring devices more effectively over more links.
Command Line Interface	The password-protected command line interface gives you complete access to all of the iTap Port Aggregator's functionality via an RS232 port. Most importantly, you can use the CLI to disable the Management Port and prevent the front panel display from showing traffic information.
Net Optics Management Information Base (MIB)	Use the iTap Port Aggregator with your current SNMP management tool. Net Optics' MIB and SNMP traps are completely compatible with popular SNMP tools such as OpenView and Tivoli®.
Aggregation	Net Optics' proven port aggregation technology allows you to monitor traffic using a single NIC on your monitoring device. Unlike any other port aggregator tap, the iTap Port Aggregator monitors utilization levels of both sides of the full-duplex link so this information is not lost.
Half-Duplex Mode	With the ability to configure the iTap Port Aggregator as a standard network Tap, you can satisfy two different types of monitoring requirements with a single device. Half-Duplex Mode enables monitoring tools to see all of the network traffic even when the aggregated full-duplex throughput exceeds 10 Gbps.
Timestamping and packet slicing	Two new capabilities, selectable using the CLI or remote interfaces, add new dimensions to your monitoring solution. Timestamping appends precise timing information to each packet sent to the monitor tools. With packet slicing, monitoring tool bandwidth and processing requirements are reduced because the monitoring ports receive only a user-selectable number of bytes from the front of each packet, for example, just the packet headers.
Cables Included	All cables required for installation are included—no more hunting around for the proper cables when you are in a hurry to debug a critical problem.

Optical - SR Fiber Tap

Fiber Type: Corning Multimode 62.5/125µm, 850nm

Transceiver: 10 GigaBit SR 850nm, VCSEL, supports 62.5/125µm

Monitor Port Output Power: -5 dBm

Network Connectors: LC

Monitor Connectors: XFP

Split Ratio: 50/50

Optical - LR Fiber Tap

Fiber Type: Corning Singlemode 8.5/125µm, 1310nm

Transceiver: 10 GigaBit LR 1310nm, supports 8.5/125µm

Monitor Port Output Power: -5 dBm

Network Connectors: LC

Monitor Connectors: XFP

Split Ratio: 50/50

Optical - ER Fiber Tap

Fiber Type: Corning Singlemode 8.5/125µm, 1550nm

Transceiver: 10 GigaBit ER 1550nm, supports 8.5/125µm

Monitor Port Output Power: -5 dBm

Network Connectors: LC

Monitor Connectors: XFP

Split Ratio: 50/50

Electrical

Power Supply Input:

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

Output: 12V, 5A

Environmental

Operating Temperature: 0°C to 40°C

Storage Temperature: -10°C to 70°C

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

Mechanical

Dimensions: 1.375" high x 11" deep x 8.5" wide

Indicators

- (1) 2x16 LCD
- (4) Link LEDs
- (4) Threshold Alarm LEDs
- (2) Mode LEDs
- (2) Power LEDs

Software

Command Line Interface (CLI): Any terminal emulation software

Net Optics Web Manager: Any browser

Net Optics System Manager: Windows XP, Windows 2000, Windows 98

Part Numbers

IPA-SR5-XFP	10 Gig SR MM, 62.5µm, In-Line
IPA-S0SR5-XFP	10 Gig SR MM, 50µm, In-Line
IPA-LR5-XFP	10 Gig LR SM, 8.5µm, In-Line
IPA-ER5-XFP	10 Gig ER SM, 8.5µm, In-Line
IPA-SSR-XFP	10 Gig SR MM, 62.5µm, Span
IPA-S50SR-XFP	10 Gig SR MM, 50µm, Span
IPA-SLR-XFP	10 Gig LR SM, 8.5µm, Span
IPA-SER-XFP	10 Gig ER SM, 8.5µm, Span

Certifications

Fully RoHS compliant



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