

# Ixia iTap™ 10GbE Fiber Port Aggregator

## The World's Only Intelligent Tap

The Ixia iTap™ 10GbE Fiber Port Aggregator makes network monitoring dramatically 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 Ixia Matrix Switches; control deployment of your analyzers from one point without disturbing any network connections.

## Key Features

- **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.
- **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.

## Highlights

- Convenient, browser-based web manager
- Intuitive management information base (MIB) for third-party SNMP tools
- Platform-based system manager
- Centralized, single point control and visibility
- Simplified, at-a-glance monitoring from front panel
- Completely passive and device neutral

- **System Manager:** This function 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.

## Product Capabilities

The Ixia 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) with one interface for each side of the full-duplex link. The Ixia iTap Port Aggregators, however, enable one or two devices to simultaneously monitor a full-duplex link using only one NIC per device.



## Aggregation + Information + Network Monitoring Flexibility

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 Ixia iTap Port Aggregator creates an entirely new, easy-to-implement, and easy-to-use category of passive access devices.

## Other Product Features

- **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.
- **Management Information Base (MIB):** Use the iTap Port Aggregator with your current SNMP management tool. MIB and SNMP traps are completely compatible with popular SNMP tools such as OpenView and Tivoli.
- **Aggregation:** Ixia's 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 network traffic even when the aggregated full-duplex throughput exceeds 10 Gbps.

- **Timestamping and packet slicing:** 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.

## Specifications

General Specifications	
<b>Optical-SR Fiber Tap</b> <ul style="list-style-type: none"> <li>• Fiber type: Corning Multimode 50 µm/125 µm, 850 nm</li> <li>• Transceiver: 10 Gigabit SR 850 nm, VCSEL, supports 50 µm/125 µm</li> <li>• Monitor Port Output Power: -5 dBm</li> <li>• Network connectors: LC</li> <li>• Monitor connectors: XFP</li> <li>• Split ratio: 50/50</li> </ul>	
Physical Specifications	
<b>iTap Size and Compliance</b> <ul style="list-style-type: none"> <li>• Dimensions: 1.375" high x 11" deep x 8.5" wide</li> <li>• Fully RoHS-compliant</li> </ul> <b>iTap Indicators</b> <ul style="list-style-type: none"> <li>• (1) 2x16 LCD</li> <li>• (4) Link LEDs</li> <li>• (4) Threshold Alarm LEDs</li> <li>• (2) Mode LEDs</li> <li>• (2) Power LEDs</li> </ul>	<b>Power for iTap</b> <ul style="list-style-type: none"> <li>• Input: 100-240 VAC, 0.5 A, 47-63 Hz</li> <li>• Output: 12 V, 5 A</li> </ul> <b>Software</b> <ul style="list-style-type: none"> <li>• Command Line Interface (CLI): Any terminal emulation software</li> <li>• Ixia Web Manager: Any browser</li> <li>• Ixia system manager: Windows XP, Windows 2000, Windows 98</li> </ul>
Operating Specifications	
<b>Temperature</b> <ul style="list-style-type: none"> <li>• Operating: 0 °C to 40 °C</li> <li>• Storage: -10 °C to 70 °C</li> </ul>	<b>Humidity</b> <ul style="list-style-type: none"> <li>• 10% min., 95% max, non-condensing</li> </ul>

## Ordering Information

### Line IPA-50SR5-XFP

10 Gig SR MM, 50  $\mu$ m, In-Line

Learn more at: [www.keysight.com](http://www.keysight.com)

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: [www.keysight.com/find/contactus](http://www.keysight.com/find/contactus)

