

TAP INTO YOUR NETWORK

PRODUCT BROCHURE



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A Network B

A

1 Monitor 2

iTap™ Port Aggregator
GigaBit Copper

Management

Port Aggregator Tap

NetOptics®

www.netoptics.com

LASSO™

10 LINK
100 ACT
1000

All

A Util = 33%
B Util = 33%

A Util = 70%
B Util = 33%

Leadership

Net Optics is dedicated to helping customers obtain the highest efficiency from their networks. Our products help Network IT and security professionals gain 24/7, non-intrusive access for 100% monitoring visibility. Organizations gain the ability to intelligently monitor and secure their networks without interruption, using any industry-standard monitoring or security tool they choose.

Customer First!

Net Optics ensures our customers' and partners' success with industry-leading service and support. Customer Service representatives are dedicated to assisting customers and partners with their product needs. Additionally, our Technical Support team routinely partners with customers on a global basis to review their network monitoring objectives, architecture, and to recommend products that match their needs. We are committed to building a lifetime brand through a guaranteed Customer First! experience.

Innovation

Our engineering team is dedicated to creating innovative products that help our customers Tap into their networks in new ways, and to continuously develop solutions that exceed our customers' expectations. As network challenges evolve, each new product delivers increased efficiency from network analysis and security monitoring tools. Custom design, rapid turnaround, and compatibility with all major networking, management, and security products ensure seamless solutions for a fast, reliable, and secure network.

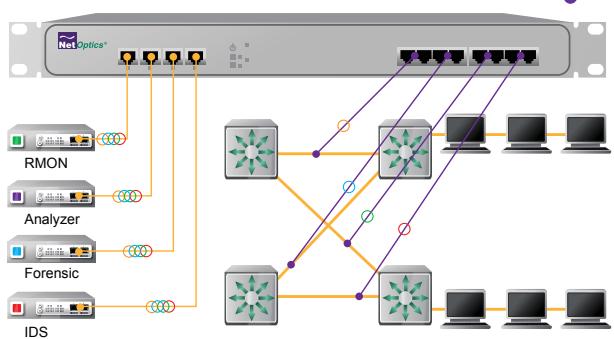
EXPAND YOUR VISIBILITY



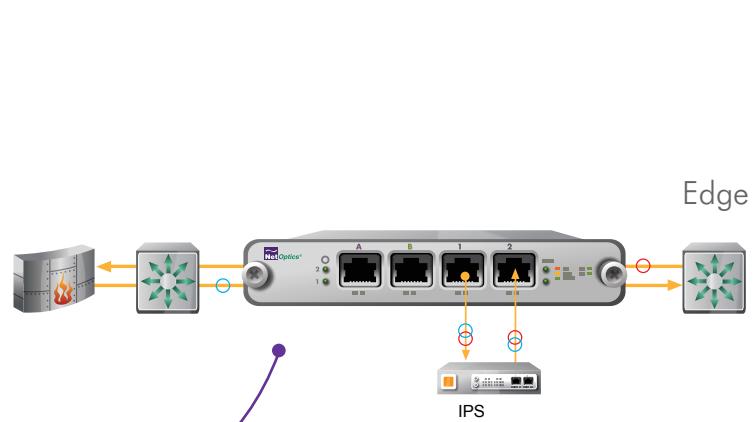
The Network Visibility Challenge

Network and security IT professionals, driven to monitor more links in greater detail throughout the network, are realizing that monitoring tools must be accessible and easy to deploy in order to keep up with today's new business challenges. A more efficient solution is needed to support today's performance monitoring and security requirements, along with managing the efficiency and performance of the tools throughout the network.

Core



Tap into your NETWORK®



The Solution

Net Optics products provide 100% passive access and traffic visibility to network links, enabling you to Tap into your network no matter what type of traffic. Our products have become best-practice access solutions for all major security and application performance-monitoring tools. Customers have increased their connectivity options, and improved network device uptime, while leveraging existing investments in monitoring and security tools across their networks. Our products ensure access to all of your network data, all of the time, helping you achieve your goal for healthy, secure, and highly efficient networks.

NETWORK TAPS

OVERVIEW

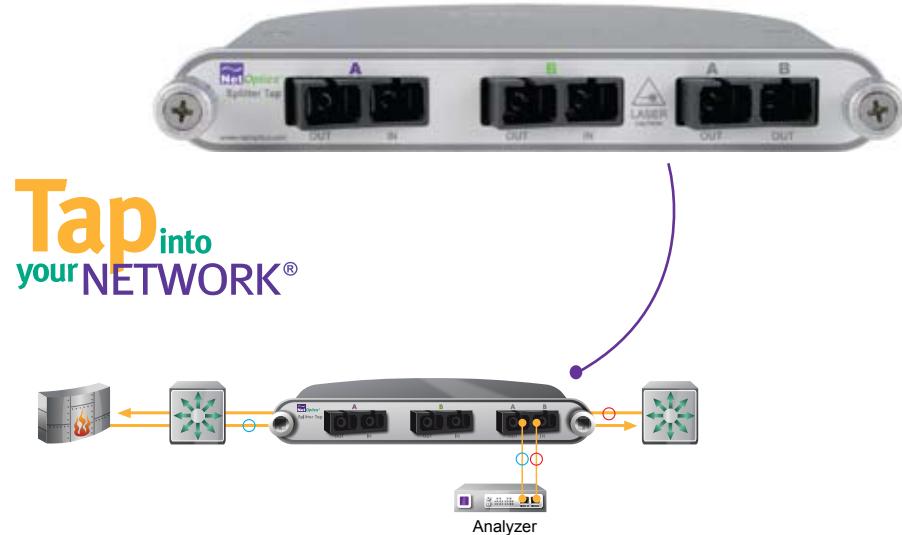
The Net Optics family of Taps provides 100% visibility into customers' networks. Installed between any two network devices, Taps provide permanent and passive access points into the network. When a monitoring tool is needed, simply connect the device to the Tap instead of taking down the link, moving cables, and causing traffic interruptions. Even if Taps lose power, they are completely passive and feature fail-open technology that ensures traffic continuity. Taps pass all network traffic—including Layer 1 and 2 errors—without introducing bottlenecks or points of failure for 100% visibility.

CONNECTIVITY

Regardless of where in the network or the types of interfaces that need to be monitored, Net Optics has a Tap solution. Copper, multimode and singlemode fiber, and coax are supported, at speeds up to 10Gbps. Media conversion models are also available to support disparate interface types.

BENEFITS

- View 100% of traffic—including VoIP, HTML, application, and layer 1 & 2 errors
- Plug-and-play—no configuration required
- Media conversion—‘single-device’ solutions (for example, TX to SX)
- Permanent access port—avoids breaking a network link each time a tool is connected
- Reliable—passive technology ensures maximum network uptime
- Cables Included!—all necessary network and monitor port cables provided



FEATURES

- Passive access at 10Mbps to 10Gbps without data stream interference
- Zero Delay™ failover on power loss for 10/100 models
- Compatible with Power-over-Ethernet (PoE) applications
- Redundant power supplies
- Multiple split ratios available for fiber models
- Secure single-direction traffic flow to monitoring ports

REGENERATION TAPS

OVERVIEW

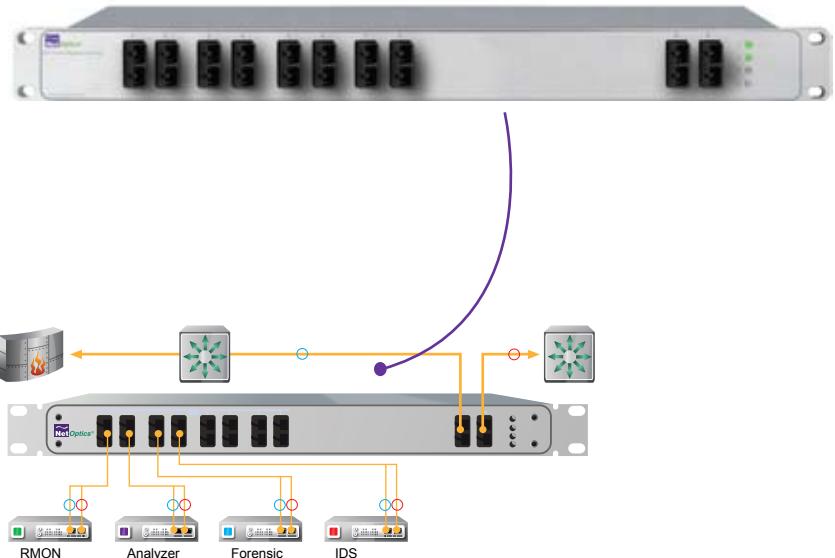
Regeneration Taps provide visibility into one network link with up to eight attached security or monitoring tools. All traffic between network devices is transparently forwarded at 100% full-duplex rates without introducing a point of failure—even in the event of a loss of power. Multiple monitoring tools such as traffic analysis monitors, RMON probes, and intrusion detection systems connected to the Regeneration Tap allow for deep levels of analysis from a single 1U-high device.

CONNECTIVITY

In-line and Span Port versions provide the ability to deploy monitoring tools in two scenarios. Depending on your needs, the in-line or Span models make it possible to collect traffic from multiple network switches or routers that are utilizing Span Ports, or they can be deployed in-line between two network devices for deeper traffic capture and analysis. All leading security and monitoring tools, and a wide variety of media and speeds from 10/100Mbps to 10Gbps fiber, are supported.

BENEFITS

- View 100% of traffic—including VoIP, HTML, application, and Layer 1 & 2 errors
- 2, 4, or 8 monitor ports—enables comprehensive troubleshooting
- Plug-and-play—no configuration required
- Media conversion—‘single-device’ network-to-monitor-tool interfaces
- Cost effective—increases monitoring tool ROI because they are always deployed
- Efficient converged IP network monitoring solution



FEATURES

- Passive access at 10Mbps to 10Gbps without data stream interference
- All Regeneration Taps optimized for each specific topology
- Span models monitor two separate Span sessions independently
- Redundant power ensures maximum uptime
- Zero Delay failover on power loss for 10/100 models
- Secure single-direction traffic flow to monitoring ports

MATRIX / iMATRIX SWITCHES

OVERVIEW

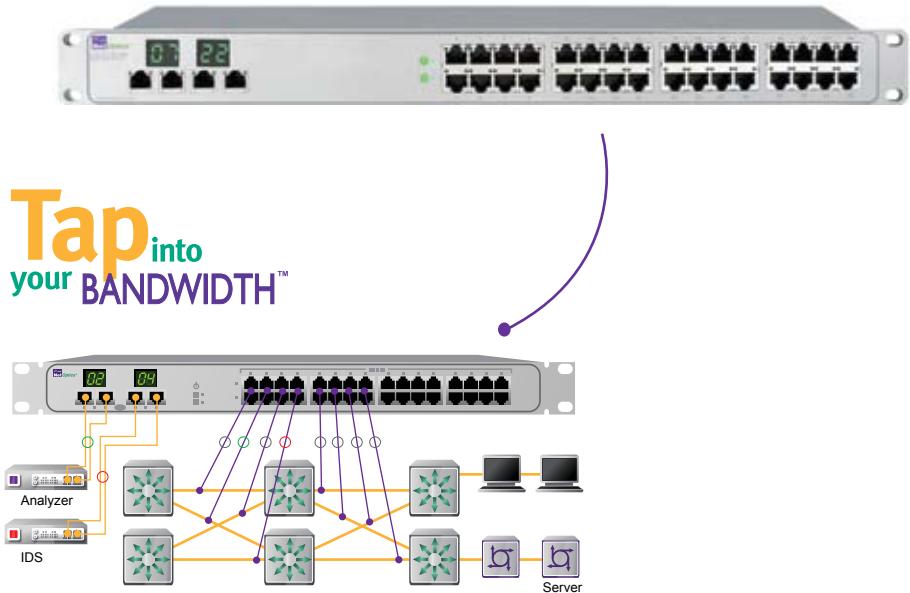
Matrix Switches enable passive connectivity to multiple network links or Span Ports, providing access for up to four monitoring tools. Software-controlled port configuration enables a monitoring tool to be assigned to a specific network link for a set period of time. Or, you can create a custom schedule that forwards traffic to alternate monitoring tools that fill different needs. This allows for all traffic from one link to be sent to an analysis monitoring tool for a set amount of time, then directed to a security monitoring tool, and so on. iMatrix Switches include SNMP and remote management capabilities for enhanced end-to-end link visibility.

CONNECTIVITY

Matrix Switches support all leading monitoring devices and a wide variety of media types, speeds, and requirements for monitoring today's converged network services. Options also exist for both LAN and WAN monitoring. In-line and Span Port versions provide the capability to consolidate a large number of links or Span Ports, giving you the ability to leverage limited monitoring tool resources.

BENEFITS

- View 100% of traffic—including VoIP, HTML, application, and Layer 1 & 2 errors
- Centralize monitoring tool resources
- Access any port any time without connecting or reconnecting tools
- Flexible monitoring—select link or port via software without link downtime
- Maximize network monitoring—increase network visibility with limited tools
- Monitor converged IP networks efficiently



FEATURES

- Passive access at 10Mbps to 10Gbps without data stream interference
- Zero Delay failover on power loss for 10/100 models
- Compatible with Power-over-Ethernet (PoE) applications
- Redundant power supplies
- PortRover software enables scheduling multiple monitoring tools
- Secure single-direction traffic flow to monitoring ports

LINK AGGREGATORS

OVERVIEW

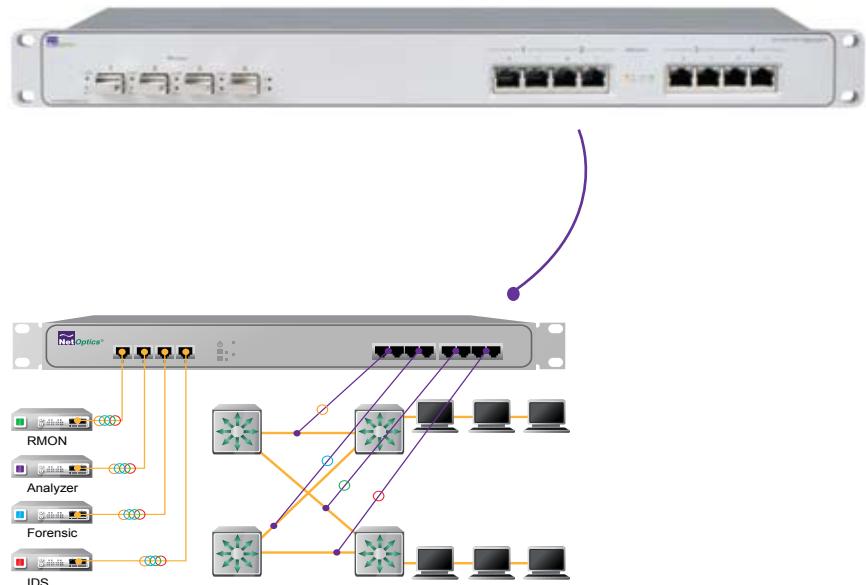
Link Aggregators enable traffic from multiple links (up to four) to be combined and copied to up to four separate monitoring ports. For example, a network analysis tool and an IDS appliance can simultaneously capture different types of asymmetric traffic from the same links. Performance and applications IT teams can gather the information they need and the security team can focus on traffic related to their needs. Passive, fail-open technology ensures that each of the monitoring tools can be removed at any time, and re-installed, without any data loss or effect on the links.

CONNECTIVITY

Models are available that support in-line and Span Port monitoring requirements. Network port speeds range from 10Mbps to 1Gbps, in copper and fiber. Monitoring ports are user-configurable via industry standard SFP transceivers, which provide the flexibility to leverage Gigabit copper or fiber (SX or LX) monitoring tools depending on your needs.

BENEFITS

- View 100% of traffic—including VoIP, HTML, application, and Layer 1 & 2 errors
- Plug-and-play—no configuration required
- Media conversion—‘single-device’ network-to-monitor-tool interfaces
- View consolidated full-duplex streams using single-NIC monitoring tools
- Centralize monitoring tools for converged network environments
- Leverage existing monitoring tool resources across the network



FEATURES

- Combine traffic from up to four network links or eight Span Ports
- Small Form Factor Pluggable (SFP) monitor ports offer increased flexibility
- Redundant power ensures maximum uptime
- LED indicators display power, speed, link, and activity status
- Zero Delay failover on power loss for 10/100 models
- Secure single-direction traffic flow to monitoring ports

PORT AGGREGATORS

OVERVIEW

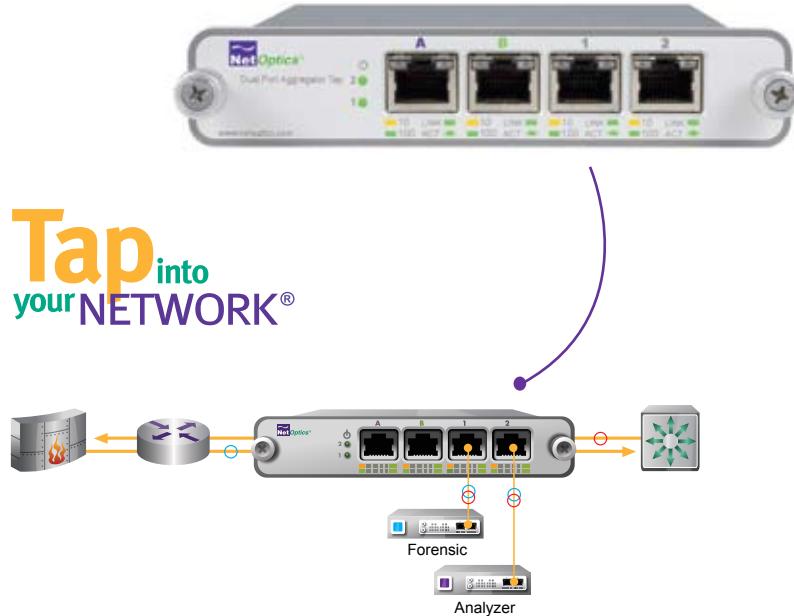
Port Aggregators enable simultaneous passive monitoring of a single full-duplex link using monitoring tools that have only one NIC per device. For added flexibility, dual monitor ports on some models provide the ability to use two monitoring tools that perform different or like functions. For example, a network analysis monitor and a VoIP analysis tool can simultaneously capture different types of information, depending on your monitoring or redundancy needs.

CONNECTIVITY

Network ports are available in 10Mbps to 1Gbps link speeds in copper and fiber. Fiber models offer industry-standard SFP transceivers for the monitoring ports, providing the flexibility to use Gigabit copper or fiber (SX or LX) monitoring tools where needed. All leading monitoring tools are supported.

BENEFITS

- View 100% of traffic—including VoIP, HTML, application, and Layer 1 & 2 errors
- Plug-and-play—no configuration required
- Media conversion—‘single-device’ network-to-monitor-tool interfaces
- Consolidated view of full-duplex stream for single-NIC monitoring tools
- Compatible with Mid-Span Power over Ethernet (PoE) applications
- Ability to leverage two monitoring tools



FEATURES

- Complete full-duplex traffic visibility
- Zero Delay failover on power loss for 10/100 models
- LED indicators show redundant power, speed, link, and activity status
- Redundant power ensures maximum uptime
- Passive fail-open technology minimizes traffic loss
- Secure single-direction traffic flow to monitoring ports

BYPASS / iBYPASS SWITCHES

OVERVIEW

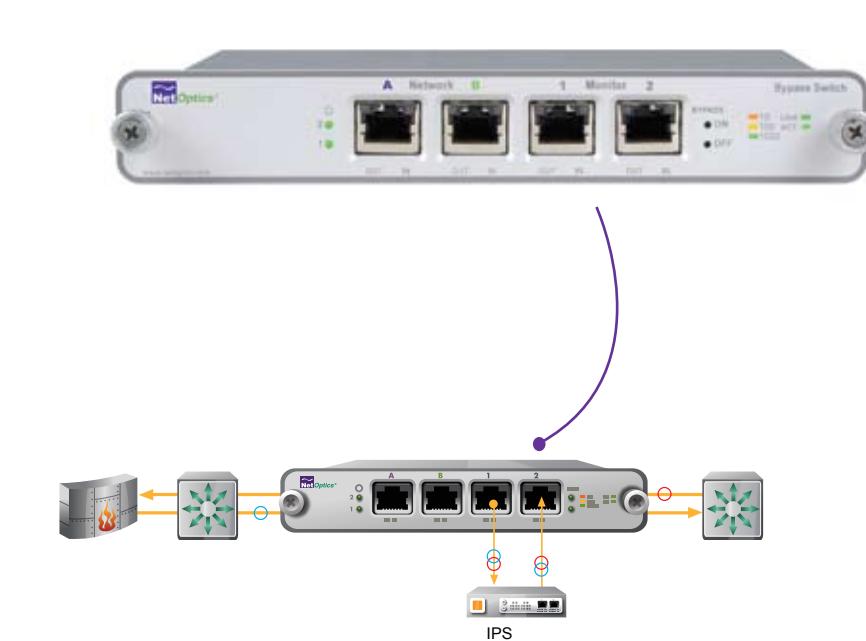
Bypass Switches operate in-line on network links to safely bypass IPS appliances if the IPS loses power or becomes non-functional. In addition, the IPS can be installed, taken offline for maintenance, or removed without affecting link traffic. Some models include a Heartbeat packet that is injected into traffic sent to the IPS appliance to continuously monitor the health of the appliance. Multi-Segment Bypass Switches enable monitoring up to four links, providing improved flexibility, high availability, and threat protection. iBypass Switches include SNMP and remote management capabilities for enhanced end-to-end link visibility.

CONNECTIVITY

Network ports are available in 10Mbps to 10Gbps link speeds in copper and fiber. One GigaBit and 10 GigaBit models provide industry-standard SFP and XFP transceivers for the monitoring ports, offering the flexibility to use Gigabit copper or fiber (SX or LX) monitoring tools where needed. All leading IPS appliances are supported.

BENEFITS

- Protects the network from IPS link, application, and power outages
- Upgrade IPS software and signatures without link downtime
- Safely add or redeploy tools when needed
- Utilize IPS security appliances more efficiently
- Leverage IPS appliances across copper and fiber networks
- Provides full functionality as if the IPS was installed directly in-line



FEATURES

- User-configurable Heartbeat packet, including rate and retry count
- Password-protected command line interface
- Redundant power to ensure maximum uptime
- 1U-high chassis (standard and multi-segment models)
- Support for 10Mbps to 10Gbps applications
- Bidirectional traffic flow to monitoring ports

LASSO

OVERVIEW

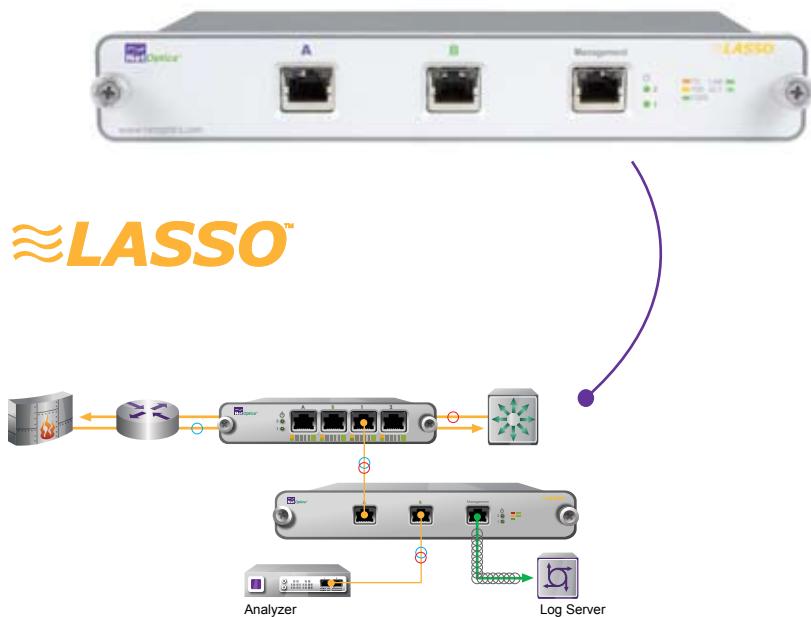
Compliance issues and the need to contain internal and external threats, either malicious or accidental, are a major challenge for every organization. LASSO™ is a hardware-based packet-inspection appliance that enables every packet to be scanned per user-defined rules or keyword matches, at full-duplex speeds up to 1Gbps. Action can now be taken to minimize the use of unauthorized data, block or contain viruses, and pinpoint potential offenders on both the LAN and WAN. Inspect inbound and outbound e-mail including PDF and Zip attachments, IM sessions, or any suspect transfer of information.

CONNECTIVITY

Network ports are available in 10/100/1000Mbps copper and 1Gbps fiber. LASSO can be installed in-line as a standalone device or as a pre-filter for your security or monitoring tools. A Log Server can also be used to capture selected traffic for offline analysis. An interactive GUI provides simple-to-use rules management. Up to 1,000 40-character length keyword strings enable transparent control of security threats and enforcement of compliance standards.

BENEFITS

- Real-time iAssist™ packet filtering relieves overburdened monitoring tools
- Deep-packet inspection sanitizes IM, e-mail, and attachments
- Enforces compliance rules
- Ability to capture, log, and further review traffic of interest
- Supports all leading monitoring tools and IPS appliances
- Easy to configure, deploy, and maintain



FEATURES

- Hardware-based wire-speed packet inspection
- Passive failover circuitry to ensure maximum uptime
- Simple-to-use GUI-based rules management
- Up to 1,000 rules
- Drop, replace, or allow actions on match
- High-impact reporting tools

DIRECTOR

OVERVIEW

Today's networks raise new challenges as more and more IP services are combined on single links. Director™, a powerful, high-density filtering appliance, optimizes monitoring multiple 10/100/1000Mbps and 10Gbps links. The TapFlow™ hardware filtering engine enables monitoring of specific protocols by specific monitoring tools. For example, VoIP protocols, HTTP traffic, and RMON data can each be copied to specified tools. The filtering parameters are configurable per monitoring port or monitoring port groups for customizable security and analysis visibility.

CONNECTIVITY

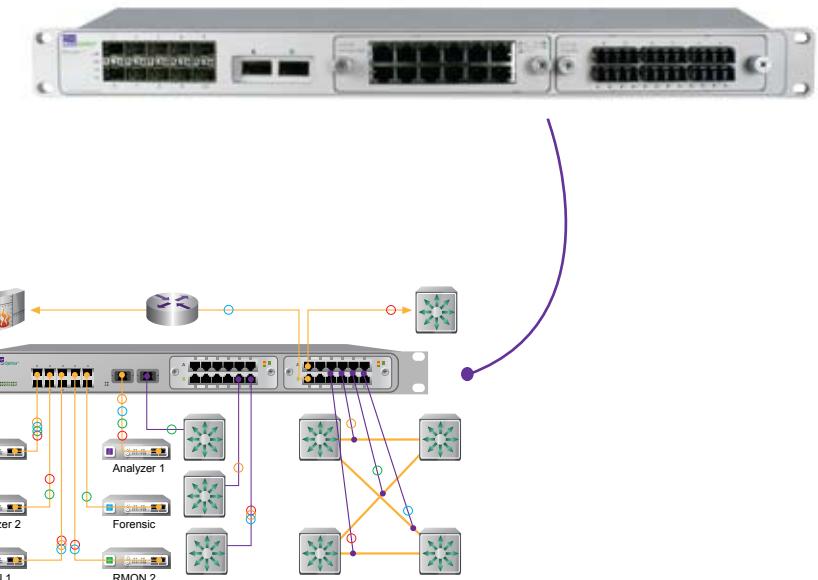
Network port modules are available in copper and fiber, as well in-line and Span. Monitor ports support SFP interfaces, which allow for copper and fiber monitoring tool connections. Two 10Gbps ports on the front panel can be configured as network or monitoring ports. Additional 10Gbps ports on the rear of the unit enable daisy-chaining of multiple Director chassis.

BENEFITS

- Real-time packet redirection increases efficiency of monitoring tools
- Monitoring tool consolidation and improved return-on-investment
- Multi-function in-line and Span Port monitoring capabilities
- Integrated performance and security functionality
- Better visibility for enhanced network operations
- Supports a variety of monitoring tools including analyzers, RMON probes, IDSs, and forensic recorders

FEATURES

- Modular network access interfaces (in-line and Span)
- SFP-based monitoring port interfaces (copper and fiber)
- Redundant power supplies
- Supports twenty-four 1Gbps network and ten 1Gbps monitor ports
- Two dual-function, XFP-based 10Gbps ports (monitor or network link)
- TapFlow wire-speed traffic filtering by protocol



iTAP TECHNOLOGY

OVERVIEW

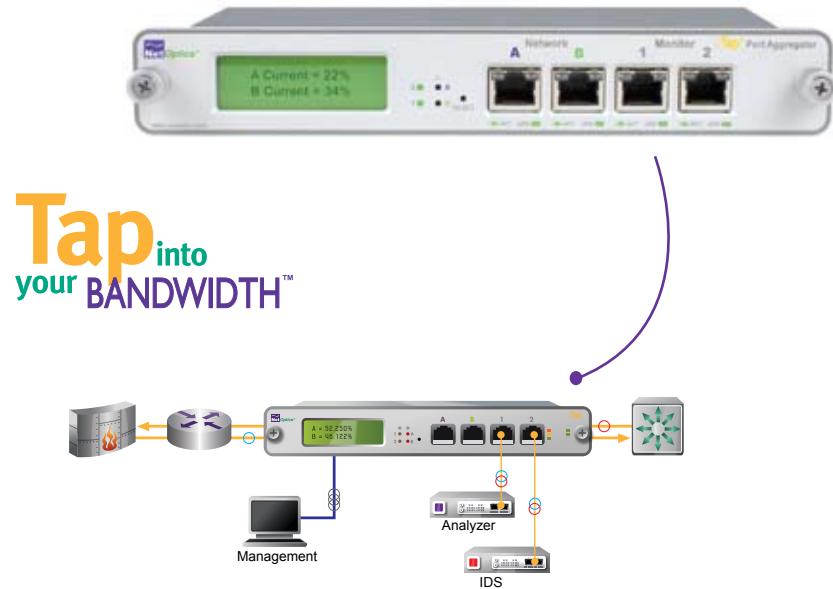
Our standard Taps are also available in iTap™ versions, transforming them into passive network status sensors, providing valuable link information from anywhere in your network. The iTap products gather and display utilization peaks, bandwidth levels, and error counts, even when a monitoring tool is not attached. In addition to a standard CLI, SNMP manageability delivers information to Web browsers, SNMP management utilities, and wireless devices. SNMP control enhances security because it adds the ability to enable or disable ports from remote locations.

CONNECTIVITY

In addition to standard network and monitor ports, each iTap-enabled product contains a 100 Mbps network management port and a DB9 serial port for management access. Wireless access is optional. iTap technology is available for Matrix Switches, Bypass Switches, Port Aggregator Taps, LASSO, and Director.

BENEFITS

- Complements RMON probes and analyzers; helps pinpoint where you may need them
- Increases network visibility—view link statistics at a glance
- Improves accessibility—remote access and configuration control
- Enables transparent sharing of link information between IT groups
- Easy-to-read utilization and statistics reports
- Reduces network outages through proactive monitoring



FEATURES

- Easy-to-read front panel display for at-a-glance troubleshooting
- Threshold LED alarms
- SNMP trap forwarding
- Management Information Base (MIB) available
- Secure login access
- Optional wireless access (802.11b)

SYSTEM MANAGEMENT

OVERVIEW

The power to proactively monitor and report on the health of the network and Net Optics intelligent products is provided by two remote management utilities, Web Manager and System Manager. Web Manager enables managing a single device using a standard Web browser, while System Manager is a Windows-based application for managing logical groups of devices. These utilities are included in the purchase of intelligent products.

CONNECTIVITY

Simply direct a browser to the appropriate IP address of an iTap-enabled device for an all-in-one view of utilization statistics, threshold settings, and alarms. Proactively set new threshold values, manage login and passwords, and enable new security options, from any local or remote location.

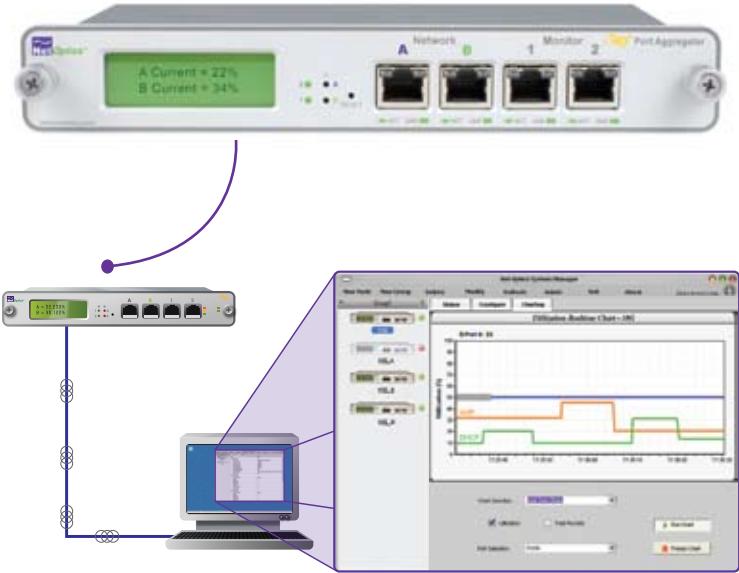
For large-scale environments, integration of the iTap Management Information Base (MIB) is available for all third-party SNMP management platforms.

BENEFITS

- Distributed IT management and coverage
- Transparent viewing and tracking of link traffic patterns
- Automated management processes
- Accessibility—obtain data and control Tap configuration remotely
- Reduced support costs
- Consolidated views of all Taps from a central console

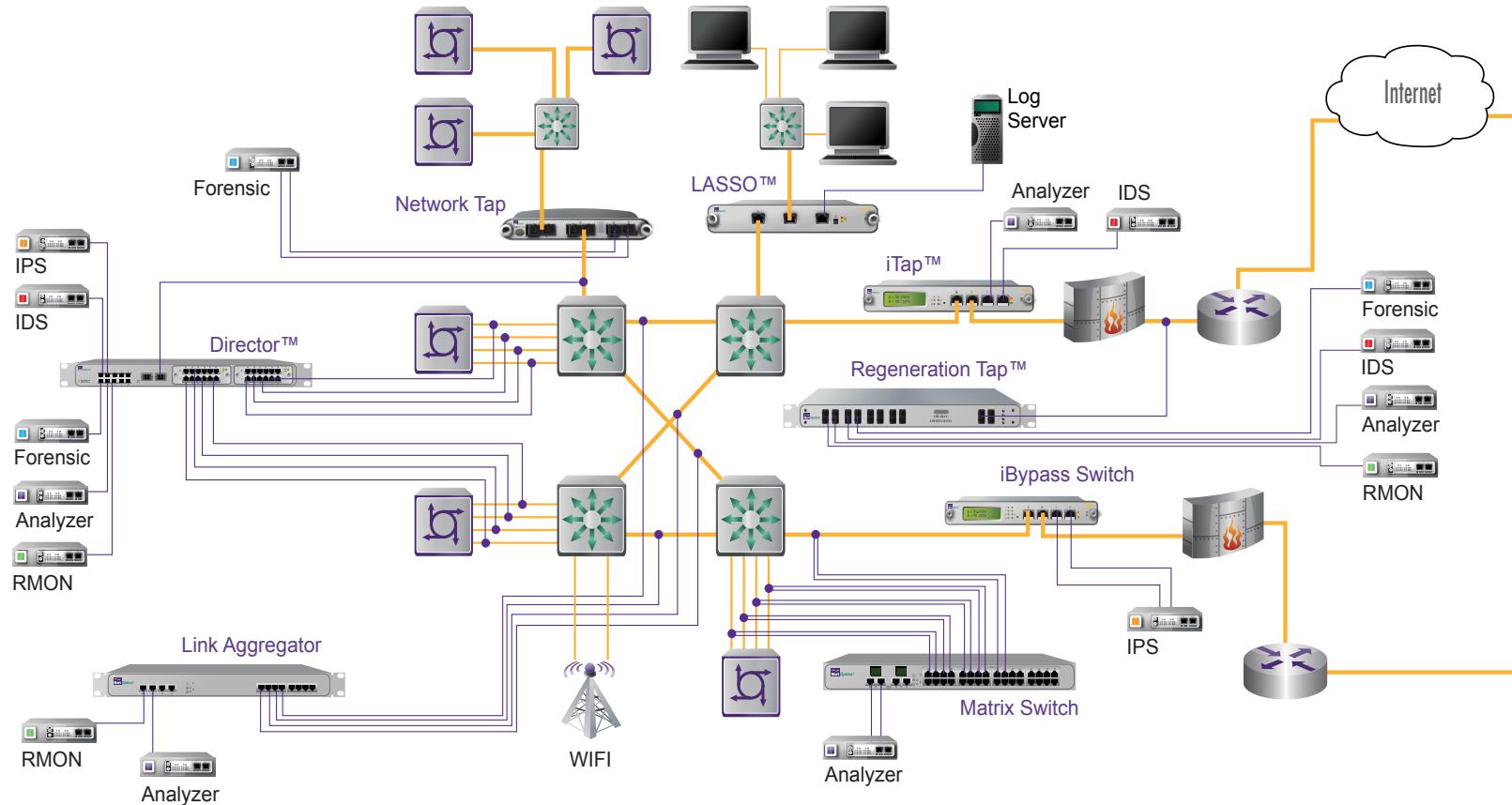
FEATURES

- Intuitive, easy-to-use GUI and reporting tools
- Secure login control
- Built-in browser or SNMP functionality
- Capability to set alarm thresholds, clear data counters, and turn on or off Monitor Ports
- Ability to create logical groups of iTap enabled devices (System Manager)
- Management Information Base (MIB) for third-party SNMP tools



NET OPTICS MONITORING ACCESS PLATFORM (MAP)

In the core, at the edge, and across the WAN, combine passive, secure, and reliable Net Optics Taps and Filtering products with the monitoring tools of your choice to create a true network security and analysis MAP.



NetOptics Tap

Network Tap



Converter Tap



Port Aggregator Tap



Link Aggregator Tap



Regeneration Tap



Bypass Switch



iTap



Matrix Switch



Converter



Rackmount Frame



DIRECTOR™



Data Monitoring Switch

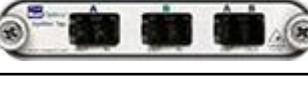
Network Tap

[www.!\[\]\(9215a40c916c06eb7383cdd1fe97b4e5_img.jpg\)NetOptics.com](http://www.NetOptics.com)

UTP Tap

Photo	Model	Description	Rack mount	Comment
	TP-CUTT-USB	10/100 CU Teeny Tap, USB Powered, Zero Delay, RJ45-Type, NetOptics		+ USB
	TP-CU	10/100Base TX Tap - Zero Delay, RJ45-Type, NetOptics	RK-6V2	
	TP-CUSLM	10/100 Slim Tap - Zero Delay, RJ45-Type, NetOptics	RK-6V2	LCD
	TP-CU3	10/100/1000BaseT Tap, RJ-45 Type, NetOptics	RK-3V2	Dip Switch Auto Negotiation, 1000M, 100M, 10M, Duplex

Gigabit /2.5G Fiber Tap

Photo	Model	Description	Rack mount	Comment
	TP-SX5-SCSLM	Gigabit Fiber Slim Tap, 62.5um SX-Multimode, SC-Type, 850nm, 50:50 Split Ratio, NetOptics	RK-6V2	SC Type
	TP-50SX5-SCSLM	Gigabit Fiber Slim Tap, 50um SX-Multimode, SC-Type, 850nm, 50:50 Split Ratio	RK-6V2	SC Type
	TP-LX5-SCSLM	Gigabit Fiber Slim Tap, LX-Singlemode, SC-Type, 1310nm, 50:50 Split Ratio, NetOptics	RK-6V2	SC Type
	TP-ZX5-SCSLM	Gigabit Slim Tap, ZX-Singlemode, SC-Type, (ZX = 1550nm), 50:50 Split Ratio	RK-6V2	SC Type
	TP-SX5-LCSLM	Gigabit Fiber Slim Tap, 62.5um SX-Multimode, LC-Type, 850nm, 50:50 Split Ratio, NetOptics	RK-8V2	LC Type
	TP-50SX5-LCSLM	Gigabit Fiber Slim Tap, 50um SX-Multimode, LC-Type, 850nm, 50:50 Split Ratio	RK-8V2	LC Type
	TP-LX5-LCSLM	Gigabit Fiber Slim Tap, LX-Singlemode, LC-Type, 1310nm, 50:50 Split Ratio, NetOptics	RK-8V2	LC Type
	TP-ZX5-LCSLM	Gigabit Slim Tap, ZX-Singlemode, LC-Type, (ZX = 1550nm), 50:50 Split Ratio	RK-8V2	LC Type
	TP-SX5TT-LC	Gigabit Fiber Teeny Tap, 62.5um SX-Multimode, LC-Type, 850nm, 50:50 Split Ratio		LC Type

10Gigabit Fiber Tap

Photo	Model	Description	Rack mount	Comment
	TP-SR5-SCSLM	10Gigabit Fiber Slim Tap, 62.5um SR-Multimode, SC-Type, 850nm, 50:50 Split Ratio, NetOptics	RK-6V2	SC Type
	TP-50SR5-SCSLM	10Gigabit Fiber Slim Tap, 50um SR-Multimode, SC-Type, 850nm, 50:50 Split Ratio, NetOptics	RK-6V2	SC Type
	TP-LR5-SCSLM	10Gigabit Slim Tap, LR-Singlemode, SC-Type, LR(1310nm) , 50:50 Split Ratio, NetOptics	RK-6V2	SC Type
	TP-ER5-SCSLM	10Gigabit Slim Tap, LR-Singlemode, SC-Type, ER(1550nm), 50:50 Split Ratio, NetOptics	RK-6V2	SC Type
	TP-SR5-LCSLM	10Gigabit Fiber Slim Tap, 62.5um SR-Multimode, LC-Type, 850nm, 50:50 Split Ratio, NetOptics	RK-8V2	LC Type
	TP-50SR5-LCSLM	10Gigabit Fiber Slim Tap, 50um SR-Multimode, LC-Type, 850nm, 50:50 Split Ratio, NetOptics	RK-8V2	LC Type
	TP-LR5-LCSLM	10Gigabit Slim Tap, LR-Singlemode, LC-Type, LR(1310nm) , 50:50 Split Ratio, NetOptics	RK-8V2	LC Type
	TP-ER5-LCSLM	10Gigabit Slim Tap, LR-Singlemode, LC-Type, ER(1550nm), 50:50 Split Ratio, NetOptics	RK-8V2	LC Type

ATM Fiber Tap

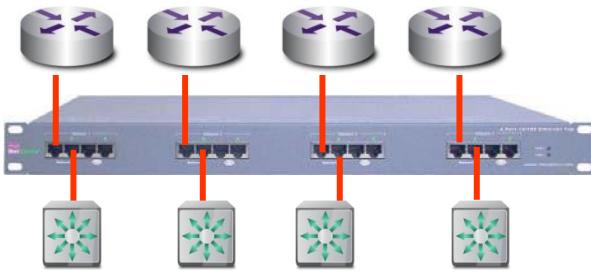
Photo	Model	Description	Rack mount	Comment
	TP-MM5-SCSLM	Fiber Slim Tap, Multimode, Dx SC-Type, ATM Taps support passive monitoring of ATM, SONET, and FDDI links at speeds up to 622 Mbps. 50:50 Split Ratio, NetOptics	RK-6V2	SC Type
	TP-SM5-SCSLM	Fiber Slim Tap, Singlemode, Dx SC-Type, ATM Taps support passive monitoring of ATM, SONET, and FDDI links at speeds up to 622 Mbps. 50:50 Split Ratio, NetOptics	RK-6V2	SC Type
	TP-MM5-LCSLM	Fiber Slim Tap, Multimode, Dx SC-Type, ATM Taps support passive monitoring of ATM, SONET, and FDDI links at speeds up to 622 Mbps. 50:50 Split Ratio, NetOptics	RK-8V2	LC Type
	TP-SM5-LCSLM	Fiber Slim Tap, Singlemode, Dx SC-Type, ATM Taps support passive monitoring of ATM, SONET, and FDDI links at speeds up to 622 Mbps. 50:50 Split Ratio, NetOptics	RK-8V2	LC Type

WAN Tap

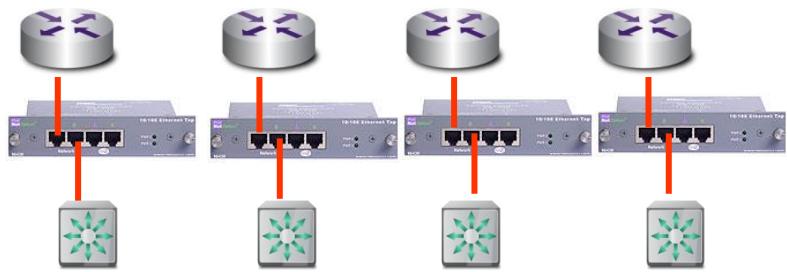
Photo	Model	Description	Rack mount	Comment
	TP-DS3	DS3/ATM Tap, BNC Connectors, DS3 Taps support passive monitoring at 44.736 Mbps of any protocol carried by channelized or unchannelized DS3, including ATM, Frame Relay, and more, NetOptics	RK-2	
	TP-E3	E3 Tap, BNC Connectors, E3 Taps support passive monitoring at 34.368 Mbps of any protocol carried by channelized or unchannelized E3, including ATM, Frame Relay, and more. , NetOptics	RK-2	

Multi Station Tap

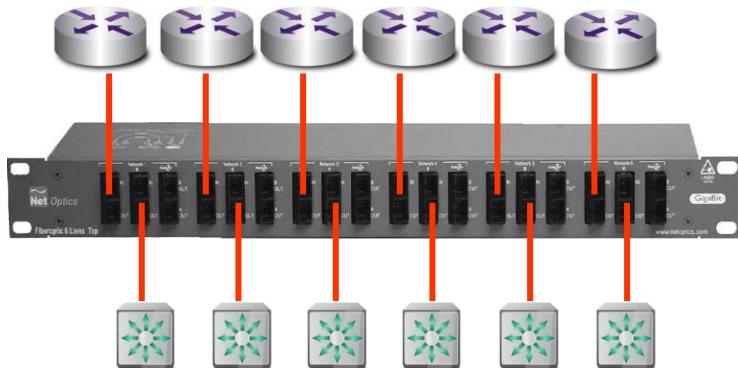
4 Station 10/100Tap



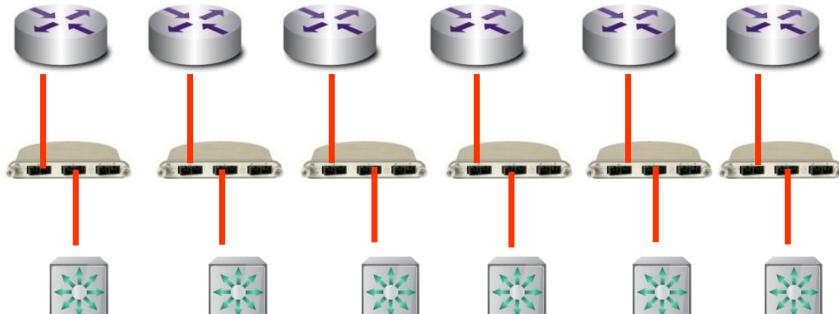
10/100Tap 4



6 Station Fiber Tap



Fiber Tap 6



Fiber & Copper Multi Station Tap

Photo	Model	Description	Rack mount	Comment
	TP4-CU	4 Station 10/100BaseT Tap, NetOptics		
	TP8-CU	8 Station 10/100BaseT Tap, NetOptics		
	TP12-CU	12 Station 10/100BaseT Tap, NetOptics		
	TP16-CU	16 Station 10/100BaseT Tap, NetOptics		
	TP20-CU	20 Station 10/100BaseT Tap, NetOptics		

Photo	Model	Description	Rack mount	Comment
	TP6-SX5-SC	Gigabit SX 6 Station Fiber Tap SC Type , 50:50 Split Ratio, NetOptics		SC Type
	TP6-LX5-SC	Gigabit LX 6 Station Fiber Tap SC Type, 50:50 Split Ratio, NetOptics		SC Type
	TP6-MM5-SC	ATM Multimode 6 Station Fiber Tap SC-Type, 50:50 Split Ratio, NetOptics		SC Type
	TP6-SM5-SC	ATM Singlemode 6 Station Fiber Tap SC-Type, 50:50 Split Ratio, NetOptics		SC Type

Converter Tap

[www.!\[\]\(0bfc65f44c8abd2b170640998d4b431b_img.jpg\)NetOptics.com](http://www.NetOptics.com)

Converter Tap (Gigabit)

Photo	Model	Description	Rack mount	Comment
	CVT-ZX3/SX	GigaBit ZX to SX Tap, SC Type, NetOptics (Network Port : ZX, Monitoring Port: SX)	RK-2	
	CVT-LX3/SX	GigaBit LX to SX Tap, SC Type, NetOptics (Network Port : LX, Monitoring Port: SX)	RK-2	
	CVT-LX5/GCU	GigaBit LX to TX Tap, LC Type, NetOptics (Network Port : LX, Monitoring Port : GIGA UTP)	RK-3V2	
	CVT-SX5/GCU	GigaBit SX to TX Tap, LC Type, NetOptics (Network Port : SX, Monitoring Port : GIGA UTP)	RK-3V2	
	CVT-GCU/SX	GigaBit TX to SX Tap, LC Type, NetOptics (Network Port : GIGA UTP, Monitoring Port : SX)	RK-3V2	

Converter Tap (10Gigabit)

Photo	Model	Description	Rack mount	Comment
	CVT-50SR5/LR	10 Gigabit SR to LR Converter Tap, 50um, 50:50, SC Type, (Network Port : SR, Monitoring Port: LR)		
	CVT-LR5/50SR	10 Gigabit LR to SR Converter Tap, 50um, 50:50, SC Type , (Network Port : LR, Monitoring Port: SR)		
	CVT-62XP-XFP	10 Gigabit LX4-XFP Converter Tap With Empty XFP, 62.5um, LC Type 10 Gigabit XFP (SR, 50SR,LR)	RK-ITP2	XFP Transceiver
	CVT-50XP-XFP	10 Gigabit LX4-XFP Converter Tap With Empty XFP, 50um, LC Type 10 Gigabit XFP (SR, 50SR,LR)	RK-ITP2	XFP Transceiver
	CVT-8XP-XFP	10 Gigabit LX4-XFP Converter Tap With Empty XFP, 8.5um, LC Type 10 Gigabit XFP (SR, 50SR,LR)	RK-ITP2	XFP Transceiver

Port Aggregator Tap

10/100 Port Aggregator Tap

Photo	Model	Description	Rack mount	Comment
	PA-CU	10/100 Port Aggregator Tap - Zero Delay	RK-3V2	
	PA-CU-AR	10/100 Port Aggregator Tap - with Active Response	RK-3V2	
	PAD-CU	10/100 Dual Port Aggregator Tap - with Zero Delay	RK-3V2	
	PAD-CU-AR	10/100 Dual Port Aggregator Tap - with Active Response	RK-3V2	

Gigabit Port Aggregator Tap

Photo	Model	Description	Rack mount	Comment
	IPA-SX5-SFP	Dual Gigabit-SX Port Aggregator i-Tap, 1GB Memory Buffer, 50:50, (w/Empty SFP Ports),LC type, w/SNMP	RK-ITP2	- SFPKT-SX - SFPKT-LX - SFPKT-GCU GBIC
	IPA-SSX-SFP	Dual Gigabit-SX Span Port Aggregator i-Tap,, 1GB Memory Buffer, (w/Empty SFP Ports) LC type, w/SNMP	RK-ITP2	- SFPKT-SX - SFPKT-LX - SFPKT-GCU GBIC
	IPA-LX5-SFP	Dual Gigabit-LX Port Aggregator i-Tap, 1GB Memory Buffer , 50:50, (w/Empty SFP Ports) LC type, w/SNMP	RK-ITP2	- SFPKT-SX - SFPKT-LX - SFPKT-GCU GBIC
	ITP-PAD-CU3	Dual 10/100/1000 Port Aggregator i-Tap, w/SNMP, 1GB Memory Buffer, w/SNMP	RK-ITP2	
	ITP-PAD-CU3-AR	Dual 10/100/1000 Port Aggregator i-Tap, SNMP - with Active Response , 1GB Memory Buffer, w/SNMP	RK-ITP2	
	ITP-PAD-SCU3	Dual 10/100/1000 Span Port Aggregator i-Tap, w/SNMP, 1GB Memory Buffer, w/SNMP	RK-ITP2	

10Gigabit Port Aggregator Tap

Photo	Model	Description	Rack mount	Comment
	IPA-SR5-XFP	Dual 10Gigabit-SR Port Aggregator i-Tap, 62.5um,850nm,50:50 Split Ratio, (w/Empty XFP Ports),Multimode,LC type, w/SNMP	RK-ITP2	- XFPKT-SR - XFPKT-LR 10G XFP
	IPA-50SR5-XFP	Dual 10Gigabit-SR Port Aggregator i-Tap, 50um,850nm,50:50 Split Ratio, (w/Empty XFP Ports), Multimode,LC type, w/SNMP	RK-ITP2	- XFPKT-SR - XFPKT-LR 10G XFP
	IPA-LR5-XFP	Dual 10Gigabit-LR Port Aggregator i-Tap, 8.5um,1310nm,50:50 Split Ratio, (w/Empty XFP Ports), Singlemode,LC type, w/SNMP	RK-ITP2	- XFPKT-SR - XFPKT-LR 10G XFP
	IPA-ER5-XFP	Dual 10Gigabit-ER Port Aggregator i-Tap, 8.5um,15500nm,50:50 Split Ratio, (w/Empty XFP Ports),Single,LC type, w/SNMP	RK-ITP2	- XFPKT-SR - XFPKT-LR 10G XFP

Link Aggregator Tap

Link Aggregator Tap

Photo	Model	Description	Rack mount	Mode
	LA-IF4CU/4SFP	10/100 In-Line Link Aggregator – (4) 10/100 Links to (4) SFP Monitor Ports, SFP Modules (minimum order Qty 1 per unit)		In-Line
	LA-IF4CU3/4SFP	10/100/1000 In-Line Link Aggregator – (4) 10/100 /1000 Links to (4) SFP Monitor Ports, SFP Modules (minimum order Qty 1 per unit)		In-Line
	LA-S8CU3/4SFP	10/100/1000 Span Link Aggregator – (8) 10/100 /1000 Links to (4) SFP Monitor Ports, SFP Modules (minimum order Qty 1 per unit)		Span
	LA-IL4SX/4SFP	GigaBit Fiber In-line Link Aggregator – (4) Gigabit SX Links to (4) SFP Monitor Ports, SFP Modules (minimum order Qty 1 per unit)		In-Line
	LA-S8SX/4SFP	GigaBit Fiber Span Link Aggregator – (8) Gigabit SX Links to (4) SFP Monitor Ports, SFP Modules (minimum order Qty 1 per unit)		Span
	LA-IL4LX/4SFP	GigaBit Fiber In-line Link Aggregator – (4) Gigabit LX Links to (4) SFP Monitor Ports, SFP Modules (minimum order Qty 1 per unit)		In-Line
	LA-S8LX/4SFP	GigaBit Fiber Span Link Aggregator – (8) Gigabit LX Links to (4) SFP Monitor Ports, SFP Modules (minimum order Qty 1 per unit)		Span

Regeneration Tap

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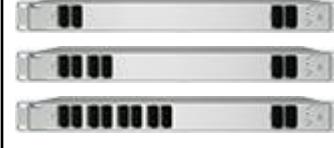
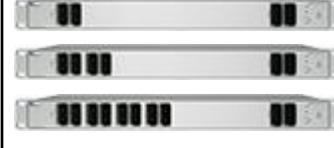
10/100 Regeneration Tap

Photo	Model	Description	Mode	Rack mount
	RGND-CU-S2	2x1 10/100BaseT Daul Span Regeneration Tap, NetOptics	Span	RK-2
	RGN-CU-IL2	2x1 10/100BaseT In Line Regeneration Tap, NetOptics	In-Line	RK-2
	RGND-CU-S4	4x1 10/100BaseT Dual Span Regeneration Tap, NetOptics	Span	
	RGN-CU-AR-IL4	4x1 10/100 Active Response In Line Regeneration Tap, NetOptics	In-Line	
	RGN-CU-IL4	4x1 10/100BaseT In Line Regeneration Tap, NetOptics	In-Line	
	RGND-CU-S8	8x1 10/100BaseT Dual Span Regeneration Tap, NetOptics	Span	
	RGN-CU-AR-IL8	8x1 10/100 Active Response In Line Regeneration Tap, NetOptics	In-Line	
	RGN-CU-IL8	8x1 10/100BaseT In-line Regeneration Tap, NetOptics	In-Line	

Gigabit UTP Regeneration Tap

Photo	Model	Description	Mode	Rack mount
	RGND-GCU-S2	2x1 GigaBit Copper Dual Span Regeneration Tap, NetOptics	Span	Only 1000M
	RGN-GCU-IL2	2x1 GigaBit Copper In Line Regeneration Tap, NetOptics	In Line	Only 1000M
	RGND-GCU-S4	4x1 GigaBit Copper Dual Span Regeneration Tap, NetOptics	Span	Only 1000M
	RGN-GCU-IL4	4x1 GigaBit Copper In Line Regeneration Tap, NetOptics	In Line	Only 1000M
	RGND-GCU-S8	8x1 GigaBit Copper Dual Span Regeneration Tap, NetOptics	Span	Only 1000M
	RGN-GCU-IL8	8x1 GigaBit Copper In Line Regeneration Tap, NetOptics	In Line	Only 1000M

Gigabit Fiber Regeneration Tap

Photo	Model	Description	Mode	Rack mount
	RGN-LX/SX-IL2 RGN-LX/SX-IL4 RGN-LX/SX-IL8	2x1 GigaBit LX to SX Regeneration Tap, NetOptics 4x1 GigaBit LX to SX Regeneration Tap, NetOptics 8x1 GigaBit LX to SX Regeneration Tap, NetOptics	In Line	
	RGN-SX-IL2 RGN-SX-IL4 RGN-SX-IL8	2x1 GigaBit SX In Line Regeneration Tap, NetOptics 4x1 GigaBit SX In Line Regeneration Tap, NetOptics 8x1 GigaBit SX In Line Regeneration Tap, NetOptics	In Line	
	RGN-LX-IL2 RGN-LX-IL4 RGN-LX-IL8	2x1 GigaBit LX In Line Regeneration Tap, NetOptics 4x1 GigaBit LX In Line Regeneration Tap, NetOptics 8x1 GigaBit LX In Line Regeneration Tap, NetOptics	In Line	
	RGND-SX-S2 RGND-SX-S4 RGND-SX-S8	8x1 GigaBit SX Dual Span Regeneration Tap, NetOptics 8x1 GigaBit SX Dual Span Regeneration Tap, NetOptics 8x1 GigaBit SX Dual Span Regeneration Tap, NetOptics	Span	

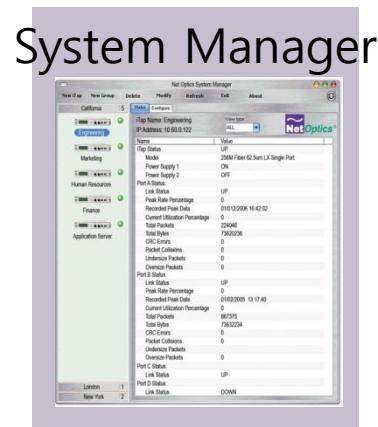
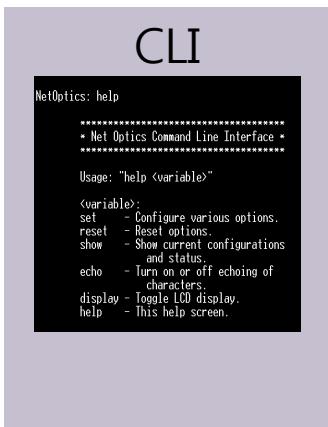
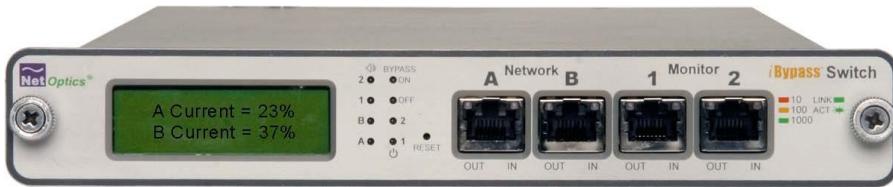
10Gigabit Fiber Regeneration Tap

Photo	Model	Description	Mode	Rack mount
	RGN-50SR-IL4	4x1 10 Gigabit SR In-Line Regeneration Tap, 50um, NetOptics	In Line	Multimode
	RGN-50SR-IL8	8x1 10 Gigabit SR In-Line Regeneration Tap, 50um, NetOptics	In Line	Multimode
	RGN-LR-IL4	4x1 10 Gigabit LR In-Line Regeneration Tap, NetOptics	In Line	Singlemode
	RGN-LR-IL8	8x1 10 Gigabit LR In-Line Regeneration Tap, NetOptics	In Line	Singlemode
	RGN-50SR-S8	8x1 10 Gigabit SR Dual Span Regeneration Tap, 50um, NetOptics	Span	Multimode

Bypass Switch

(IPS/QoS (In-Line))

iBypass Switch



Gigabit Bypass Switch

Photo	Model	Description	Rack mount	Comment
	BPO-HBSX-LC	Optical Bypass Switch with Heartbeat,Gigabit SX, Multimode 62.5/125µm, wavelength, 850nm	RK-2V2	
	BPO-HBLX-SC/LC	Optical Bypass Switch with Heartbeat,Gigabit LX, Singlemode 8.5/125µm, wavelength, 1310nm	RK-2V2	
	BPO-HB-LX/SX	Optical Bypass Switch with Heartbeat,Gigabit LX to SX, Singlemode 8.5/125µm, wavelength, 1310nm	RK-2V2	Network Port : LX Monitor Port : SX
	BP-HBCU3	10/100/1000 Bypass Switch with Heartbeat	RK-2V2	

Photo	Model	Description	Rack mount	Comment
	IBPO-HBSX-SFP	Optical i-Bypass Switch with Heart Beat (Gigabit-SX) (w/Empty SFP Ports) i-Bypass Switches require the purchase of "two" SFP Kits	RK-iTP2	- SFPKT-SX - SFPKT-LX - SFPKT-GCU GBIC
	IBPO-HBLX-SFP	Optical i-Bypass Switch with Heart Beat (Gigabit-LX) (w/Empty SFP Ports) i-Bypass Switches require the purchase of "two" SFP Kits	RK-iTP2	- SFPKT-SX - SFPKT-LX - SFPKT-GCU GBIC
	IBP-HBCU3	10/100/1000 iBypass Switch with Heartbeat	RK-iTP2	- SFPKT-SX - SFPKT-LX - SFPKT-GCU GBIC

10Gigabit Bypass Switch

Photo	Model	Description	Rack mount	Comment
	IBPO-HBSR-XFP	10 Gigabit SR Active iBypass Switch with Empty XFP Monitoring Ports, 62.5um, XFP Modules (minimum order Qty 2 per unit)	RK-ITP2	10G XFP
	IBPO-HB50SR-XFP	10 Gigabit SR Active iBypass Switch with Empty XFP Monitoring Ports, 50um, XFP Modules (minimum order Qty 2 per unit)	RK-ITP2	10G XFP
	IBPO-HBLR-XFP	10 Gigabit LR Active iBypass Switch with Empty XFP Monitoring Ports, XFP Modules (minimum order Qty 2 per unit)	RK-ITP2	10G XFP
	IBPO-HBER-XFP	10 Gigabit ER Active iBypass Switch with Empty XFP Monitoring Ports, XFP Modules (minimum order Qty 2 per unit)	RK-ITP2	10G XFP

Multi-Segment Bypass Switch

Photo	Model	Description
	BP4-HBCU3	4 Station 10/100/1000 Copper Bypass Switch with Heart Beat
	BPO4-HBSX-LC	4 Station Gigabit SX Bypass Switch with Heart Beat
	BPO4-HBLX-LC	4 Station Gigabit LX Bypass Switch with Heart Beat
	BPO4-HB2SX/2LX	4 Station (2) Gigabit SX (2) Gigabit LX Bypass Switch with Heart Beat
	BPO4-HB50SX-LC	4 Station Gigabit SX 50um Bypass Switch with Heart Beat
	BPO4-HB250SX/2LX	4 Station (2) Gigabit SX 50um (2) Gigabit LX Bypass Switch with Heart Beat
	BPC4-HB2CU3/2SX	4 Station (2) 10/100/1000 (2) Gigabit SX Bypass Switch with Heart Beat
	BPC4-HB2CU3/2LX	4 Station (2) 10/100/1000 (2) Gigabit LX Bypass Switch with Heart Beat
	BPC4-HB2CU3/250SX	4 Station (2) 10/100/1000 (2) Gigabit SX 50um Bypass Switch with Heart Beat

i Tap into
your NETWORK™

[www.!\[\]\(0dc690309bcc577bffe1c73810af57c4_img.jpg\) NetOptics.com](http://www.NetOptics.com)

iTap (Port Aggregator Tap)

Photo	Model	Description	Rack mount	Comment
	IPA-SX5-SFP	Dual Gigabit-SX Port Aggregator i-Tap, 1GB Memory Buffer, 50:50, (w/Empty SFP Ports),LC type, w/SNMP	RK-ITP2	GBIC
	IPA-SSX-SFP	Dual Gigabit-SX Span Port Aggregator i-Tap,, 1GB Memory Buffer, (w/Empty SFP Ports) LC type, w/SNMP	RK-ITP2	GBIC
	IPA-LX5-SFP	Dual Gigabit-LX Port Aggregator i-Tap, 1GB Memory Buffer , 50:50, (w/Empty SFP Ports) LC type, w/SNMP	RK-ITP2	GBIC
	ITP-PAD-CU3	Dual 10/100/1000 Port Aggregator i-Tap, w/SNMP, 1GB Memory Buffer, w/SNMP	RK-ITP2	GBIC
	ITP-PAD-CU3-AR	Dual 10/100/1000 Port Aggregator i-Tap, SNMP - with Active Response , 1GB Memory Buffer, w/SNMP	RK-ITP2	GBIC
	ITP-PAD-SCU3	Dual 10/100/1000 Span Port Aggregator i-Tap, w/SNMP, 1GB Memory Buffer, w/SNMP	RK-ITP2	GBIC
	IPA-SR5-XFP	Dual 10Gigabit-SR Port Aggregator i-Tap, 62.5um,850n,50:50 Split Ratio, (w/Empty XFP Ports),Multimode,LC type, w/SNMP	RK-ITP2	10G XFP
	IPA-50SR5-XFP	Dual 10Gigabit-SR Port Aggregator i-Tap, 50um,850nm,50:50 Split Ratio, (w/Empty XFP Ports), Multimode,LC type, w/SNMP	RK-ITP2	10G XFP
	IPA-LR5-XFP	Dual 10Gigabit-LR Port Aggregator i-Tap, 8.5um,1310nm,50:50 Split Ratio, (w/Empty XFP Ports), Singlemode,LC type, w/SNMP	RK-ITP2	10G XFP
	IPA-ER5-XFP	Dual 10Gigabit-ER Port Aggregator i-Tap, 8.5um,1550nm,50:50 Split Ratio, (w/Empty XFP Ports),Single,LC type, w/SNMP	RK-ITP2	10G XFP

iBypass Switch

Photo	Model	Description	Rack mount	Comment
	IBPO-HBSX-SFP	Optical i-Bypass Switch with Heart Beat (Gigabit-SX) (w/Empty SFP Ports) i-Bypass Switches require the purchase of "two" SFP Kits	RK-ITP2	- SFPKT-SX - SFPKT-LX - SFPKT-GCU GBIC
	IBPO-HBLX-SFP	Optical i-Bypass Switch with Heart Beat (Gigabit-LX) (w/Empty SFP Ports) i-Bypass Switches require the purchase of "two" SFP Kits	RK-ITP2	- SFPKT-SX - SFPKT-LX - SFPKT-GCU GBIC
	IBP-HBCU3	10/100/1000 iBypass Switch with Heartbeat	RK-ITP2	
	IBPO-HBSR-XFP	10 Gigabit SR Active iBypass Switch with Empty XFP Monitoring Ports, 62.5um, XFP Modules (minimum order Qty 2 per unit)	RK-ITP2	10GXFP
	IBPO-HB50SR-XFP	10 Gigabit SR Active iBypass Switch with Empty XFP Monitoring Ports, 50um, XFP Modules (minimum order Qty 2 per unit)	RK-ITP2	10GXFP
	IBPO-HBLR-XFP	10 Gigabit LR Active iBypass Switch with Empty XFP Monitoring Ports, XFP Modules (minimum order Qty 2 per unit)	RK-ITP2	10GXFP
	IBPO-HBER-XFP	10 Gigabit ER Active iBypass Switch with Empty XFP Monitoring Ports, XFP Modules (minimum order Qty 2 per unit)	RK-ITP2	10GXFP

Matrix Switch

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Copper Matrix Switch

Photo	Model	Description	Mode
	ISW-CU3-S4X16 ISW-CU3-S4X32	4x16 10/100/1000 Span Port iMatrix Switch with SNMP 4x32 10/100/1000 Span Port iMatrix Switch with SNMP	Span
	ISW-CU3-S4X8 ISW-CU3-S4X16 ISW-CU3-S4X32	4x8 10/100/1000 Span Port iMatrix Switch with SNMP 4x16 10/100/1000 Span Port iMatrix Switch with SNMP 4x32 10/100/1000 Span Port iMatrix Switch with SNMP	Span
	SW-CU-IL2X8 SW-CU-IL2X16	2x8 10/100 In-Line SpyderSwitch 2x16 10/100 In-Line SpyderSwitch	In-Line
	SW-CU-S2X8 SW-CU-S2X16 SW-CU-S2X32	2x8 10/100 Span Port SpyderSwitch 2x16 10/100 Span Port SpyderSwitch 2x32 10/100 Span Port SpyderSwitch	Span

Gigabit Fiber Matrix Switch

Photo	Model	Description	Mode
	SW-SX-S2X8 SW-SX-S2X16 SW-SX-S2X24 SW-SX-S2X32	2x8 GigaBit Span Port SpyderSwitch 2x16 GigaBit Span Port SpyderSwitch 2x24 GigaBit Span Port SpyderSwitch 2x32 GigaBit Span Port SpyderSwitch	Span
	SW-SX-IL2X8 SW-SX-IL2X16	2x8 GigaBit In-Line SpyderSwitch 2x16 GigaBit In-Line SpyderSwitch	In-Line
	SW-SX-S4X16 SW-SX-S4X32	4x16 GigaBit Span Port SpyderSwitch 4x32 GigaBit Span Port SpyderSwitch	Span
	SW-SX-IL4X16	4x16 GigaBit In-Line SpyderSwitch	In-Line

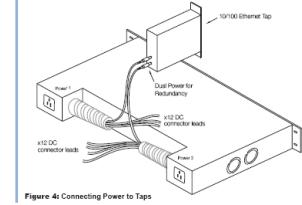
Converter & Rackmount

[www.!\[\]\(cb4f0a20d825bd465eb05abcc7870399_img.jpg\)NetOptics.com](http://www.NetOptics.com)

Converter

Photo	Model	Description	Rack mount	Comment
	FMC-XFP	10 Gigabit Fiber Mode Converter (w/Empty XFP Ports) 10Gigabit SR, LR XFP	RK-3V2	10Gigabit
	FMC-LX/SX	GigaBit LX to SX Converter	RK-3	Gigabit
	CV-SX/GCU	GigaBit SX to TX Converter	RK-3	Gigabit
	CV-LX/GCU	GigaBit LX to TX Converter	RK-3	Gigabit
	FMC	Singlemode to Multimode Converter, 100BaseFX	RK-3	100M

Rackmount Frame Option

Photo	Model	Description	Example
	PWR12-350	12-Lead Power Supply, PWR12-350 Power Supply	 Figure 4: Connecting Power to Taps
	RK-2	2-Slot 19" Rackmount Frame	
	RK-3	3-Slot 19" Rackmount Frame	
	RK-12	12-Slot 19" Rackmount Frame for 5" Taps	
	RK-2V2	2-Slot 19" Rackmount Frame for 7" Taps - (New Metal Version)	
	RK-3V2	3-Slot 19" Rackmount Frame for 5" Taps - (New Metal Version)	
	RK-6V2	6-Slot 19" Rackmount Frame for 7" Slim Taps - (New Metal Version)	
	RK-8V2	8-Slot 19" Rackmount Frame for 4" Slim Taps - (New Metal Version)	
	RK-12V2	12-Slot 19" Rackmount Frame for 5" Taps - (New Metal Version)	
	RK-ITP2	2-Slot 19" Rackmount Frame - (for iTap)	

SFP & XFP

Photo	Model	Description	Media
	SFPKT-GCU	Gigabit Copper Base SFP Transceiver w/cable	UTP
	SFPKT-SX	Gigabit SX Base SFP Transceiver w/cable, 850nm	Multimode
	SFPKT-50SX	Gigabit SX Base SFP Transceiver w/cable 50um, 850nm	Multimode
	SFPKT-LX	Gigabit LX Base SFP Transceiver w/cable, 1310nm	Singlemode
	SFPKT-ZX	Gigabit ZX Base SFP Transceiver w/cable, 1550nm	Singlemode
	XFPKT-SR	10Gigabit SR Base XFP Transceiver w/cable 62.5um, 850nm	Multimode
	XFPKT-50SR	10Gigabit 50SR Base XFP Transceiver w/cable 50um, 850nm	Multimode
	XFPKT-LR	10Gigabit LR Base XFP Transceiver w/cable 8.5um, 1310nm	Singlemode

Fiber Specifications

1 GigaBit	10 GigaBit
<u>1GB-SX</u> <ul style="list-style-type: none">• 62.5μ or 50μ multimode fiber• 850nm wavelength• 220m distance with 62.5μ fiber, up to 550m with 50μ fiber	<u>10GB-SR</u> <ul style="list-style-type: none">• 62.5μ or 50μ multimode fiber• 850nm wavelength• 33m distance with 62.5μ fiber, up to 300m with 50μ laser-optimized fiber
<u>1GB-LX</u> <ul style="list-style-type: none">• G.652 fiber• Singlemode 8.5/125μm• 1310 nm wavelength• Up to 15 kilometers	<u>10GB-LR</u> <ul style="list-style-type: none">• G.652 fiber• Singlemode 8.5/125μm• 1310 nm wavelength• Up to 10 kilometers
<u>1GB-ZX</u> <ul style="list-style-type: none">• G.652 fiber• Singlemode 8.5/125μm• 1550 nm wavelength• Up to 70 kilometers	<u>10GB-ER</u> <ul style="list-style-type: none">• G.652 fiber• Singlemode 8.5/125μm• 1550 nm wavelength• Up to 40 kilometers

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