DATACOM
SYSTEMS INC.™

SINGLE*stream*™ 10 Gigabit Link Aggregation Tap
with 2 - XFP Monitoring Ports
SS-1204-10G Models

Full-Duplex Visibility at 10G for Single Interface Monitoring Solutions

SINGLE
stream™

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10 Gigabit Full Duplex Aggregation

While traditional taps might enable full-duplex monitoring of all traffic on a network link, they transmit the data to the connected monitoring device in two separate half-duplex streams (one for Tx and one for Rx). Not only does this require the monitoring device to have two network interface cards, it also requires that the device be capable of combining and processing both streams of data in order to monitor both sides of the conversation. Not all monitoring systems, including the most popular software solutions, have the required hardware to aggregate traffic.

The SINGLE*stream*™ 10 Gigabit Link Aggregation Tap combines both directions of a 10 Gigabit full duplex data stream and allows any connected monitoring device, including those with only one NIC, to receive a copy of all the data - even in a single trace file.

Data Filtering

Instead of tools attempting to keep up with high-speed aggregated traffic streams, the SS-1204-10G-F (with data filtering) provides the option of applying filters to the data to increase tool efficiency and eliminate port oversubscription. Line-rate hardware filtering on each port allows you to customize and streamline the amount and type of data each connected monitoring tool receives. Because they are receiving only traffic of interest, tools run faster, data is easier to work with, and issues are resolved quicker. Filters include IP and MAC ranges, VLAN, frame, port number, protocol type, even customizable offsets in the packet header.

Totally Passive and Power Fault Tolerant

Fiber taps are completely passive devices and are not a point of failure on the network. Even if power is lost to the tap, the network traffic will not be affected. If one side of the link fails for any reason, the device on the other side of the link will recognize this outage immediately, so routers and switches can engage redundant protocols and failover systems.

Dual Stream Mode
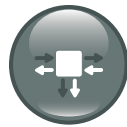
For dual-receive capable tools or times when there is no substitute for full line rate data capture (e.g. network attacks), the SINGLE*stream*™ can be configured to work exactly like a traditional full duplex tap, providing a copy of full-rate Gigabit data to connected tools in two separate streams (Tx and Rx).

Regeneration

One-to-Many configurations replicate copies of identical network traffic to provide multiple tools monitoring access to the same links. In addition to eliminating contention for access to critical links, multiple tools can be connected to the same link for redundancy, testing, or advanced monitoring applications.

Reliable and Easy to Use

Unlike setting up operating systems and binding NICs, the SINGLE*stream*™ Link Aggregation Tap is simple to deploy, and every unit comes with dual redundant power supplies to ensure monitoring uptime.

Benefits

- 100% Network Uptime - fiber tap is completely passive and won't disrupt the network even if power is lost to the tap

- View entire full-duplex conversations using single-interface monitoring tools

- Decreased reliance on switch resources for network management visibility - eliminate SPAN port contention, oversubscription, and configuration errors

- After installation, deploy tools right away without impacting your production network

- Easily share test access points without maintenance windows or approval

- Single point of deployment and remote management minimizes management expenses and reduces MTTR

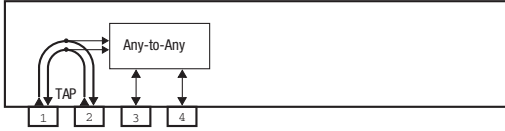- Keep your monitoring tool plugged in while troubleshooting the same link

Features

- Aggregation - Combine multiple network links or channels into one stream for visibility into complete network conversations

- Regeneration - Send copies of traffic from the tap to multiple connected tools to share data sources

- Filtering - Line-rate hardware-based filtering can eliminate port oversubscription and customize data flow to each tool (-F Model)

- Monitoring Ports can be set for full duplex, half duplex, or auto-negotiate

- Stays invisible to the network for enhanced security

- Dual Redundant Power Supplies are hot swappable and load balanced to ensure monitoring uptime
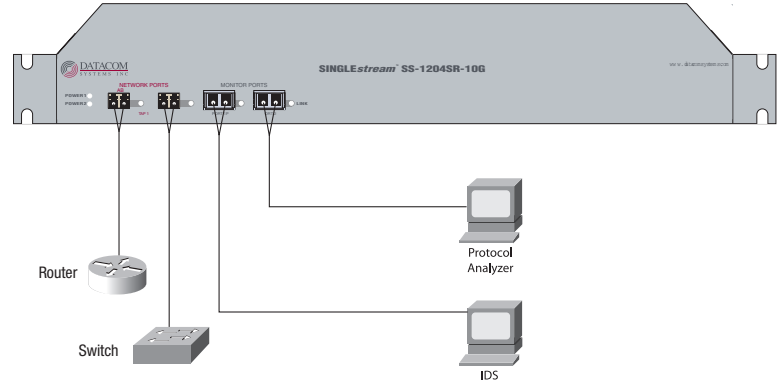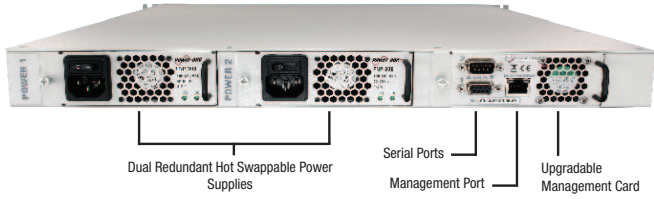
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Internal Port Diagram

Any-to-Any

TAP

1 2 3 4

Rear View

POWER 1 | POWER 2

Dual Redundant Hot Swappable Power Supplies

Serial Ports

Management Port

Upgradable Management Card

SINGLE*stream* SS-1204SR-10G

NETWORK PORTS | MONITOR PORTS

Router

Switch

Protocol Analyzer

IDS

Technical Specifications - SS-1204-10G

PORTS

Network: One (1) Network Tap with Dual LC Connectors
Monitoring: Two (2) XFP Any-to-Any Ports
Management: RJ45 @ 100Mbs Full-Duplex
Serial: DB9F and DB9M

POWER REQUIREMENTS

Hot Swappable Dual Redundant Power Supplies (AC or DC)
AC: 100-240VAC, 50-60 Hz, 0.4A-0.2A
DC: 40.5-72.0VDC, 10.0-5.0A

CERTIFICATIONS

CE
Fully RoHS Compliant

PHYSICAL DIMENSIONS (HXWXD)

1.75 x 19.00 x 21.00 in (4.45 x 48.26 x 53.35 cm)

WEIGHT

13.5 lbs (6.12 kgs)

ENVIRONMENTAL

Operating Temperature: 32° to 104°F (0° to 40°C)
Storage Temperature: -22° to 149°F (-30° to 65°C)
Humidity: 5 to 90% non-condensing

WARRANTY

Standard Model: Two (2) Year Limited Warranty
Filter Model: One (1) Year Limited Warranty -Support Contract Required

ORDER INFORMATION

Product	Description
SS-1204-10G	SINGLE*stream*™ 10 Gigabit Link Aggregation TAP with 2 - SFP Monitoring Ports
SS-1204-10G-F	SINGLE*stream*™ 10 Gigabit Link Aggregation TAP with Data Filtering and 2 - SFP Monitoring Ports
SR*, LR, or ER	SR (Short Range): Multi-mode (50 or 62.5 micron) LR (Long Range): Single mode (9 micron) ER (Extended Range): Single mode (9 micron) *Specify tap diameter when ordering
AC or DC	AC or DC Power
XFP	XFP-SR: 850nm XFP-LR: 1310nm XFP-ER: 1550nm
S-SS-1204-10G-F	One (1) Year Hardware and Software Support
Note:	SFPs and XFPs are Optional Additional Purchase

RoHS

universal power

TESTED with SPIRENT