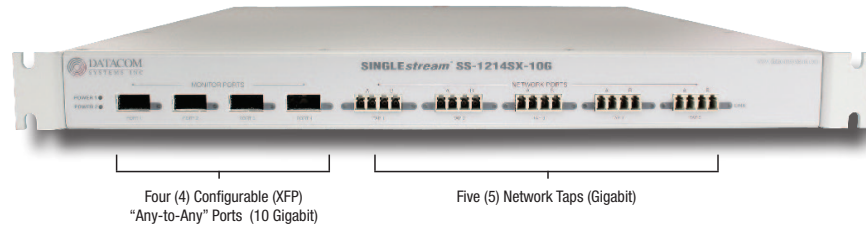


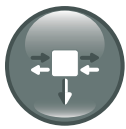
# SINGLEstream™ 1G to 10G Link Aggregation Tap (5 - Gigabit Taps, 4 - XFP Monitoring Ports)

SS-1214-10G-F Models

**Achieve Full-Duplex  
 Visibility across Five  
 (5) Links even with  
 Single Interface  
 Monitoring Solutions**



## 10 Gigabit Full Duplex Aggregation



Monitoring full duplex network traffic from multiple sources is often a critical requirement for network monitoring applications. For example, multiple network links may be bound together and operate as one logical network in order to improve bandwidth. In such an implementation, packets are distributed across two different physical links. Often, traffic transmits on one segment and receives on another. This makes network analysis and monitoring especially challenging. If an analyzer or monitoring device is put on only one physical link, it will not see the entire conversation

Also, 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 have the required hardware to aggregate traffic.

The SINGLEstream™ 1G to 10G Link Aggregation Tap has five (5) network taps. Each tap combines both directions of a full duplex data stream and allows connected monitoring devices, even those with only one NIC, to receive a copy of all the data collected from both taps in a single trace file.

## Data Filtering



For tools that may not need 100% of the data from high-speed aggregated traffic streams, the SS-1214-10G-F with data filtering

model provides the option of applying filters to the data to increase tool efficiency and make analysis simpler. 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.

## 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 SINGLEstream™ 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 full-duplex conversations from multiple taps 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

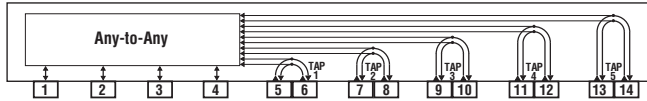
- Aggregation - Combine multiple network links or channels into one stream for visibility into complete network conversations
- Regeneration - Send copies of traffic from the tap to multiple connected tools to share data sources
- Filtering - Line-rate hardware-based filtering can customize data flow to each tool
- 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

# SINGLEstream™ 1G to 10G Link Aggregation Tap

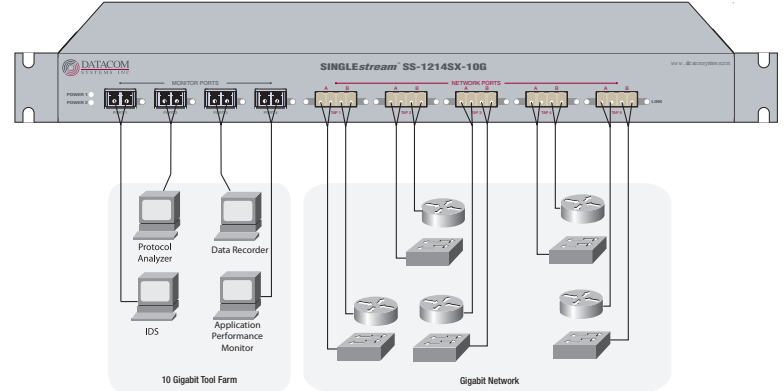
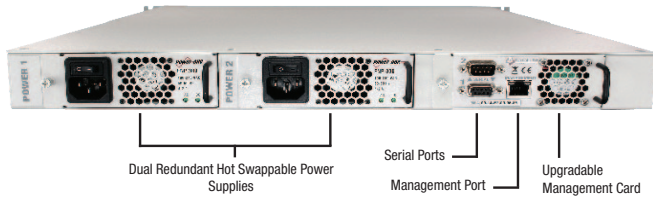
(5 - Gigabit Taps, 4 - XFP Monitoring Ports)

**SS-1214-10G-F Models**

Internal Port Diagram



Rear View



## Technical Specifications - SS-1214-10G-F

### PORTS

Network: Five (5) SX or LX Network Taps with Dual LC Connectors  
 Monitoring: Four (4) XFP Any-to-Any Ports  
 Management: RJ45 @ 100Mbps 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

One (1) Year Limited Warranty -Support Contract Required

### ORDER INFORMATION

Product	Description
SS-1214-10G-F	SINGLEstream™ 1G to 10G Link Aggregation Tap with Data Filtering (5-TAPS, 4-XFP Ports)
SX* or LX	SX: 850nm; multi-mode (50 or 62.5 micron)* LX: 1310nm; 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-1214-10G-F	One (1) Year Hardware and Software Support
Note:	SFPs and XFPs are Optional Additional Purchase



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