

SINGLEstream™ Link Aggregation Tap (SX)

with 2 - SFP Monitoring Ports
 SS-1204SX-SFP

Full-Duplex Visibility for Single Interface Monitoring Solutions



Full Duplex Aggregation



Monitoring network traffic in timestamp order from two different sources is often an important and frequent

requirement in network analysis, commonly referred to as data “aggregation.” By aggregating full duplex data, network professionals can measure latency between two sources such as the ingress and egress of a router or switch.

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 that capability.

The SINGLEstream™ Link Aggregation Tap combines both directions of a full duplex data stream, preserves the ordering of packets, and allows any connected monitoring device (even those with one NIC) to receive a copy of all the data in timestamp order.

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 SINGLEstream™ 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).

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. While some copper Gigabit taps prevent the operation of redundant routing and failover systems because they keep both sides of the network invisible to the other, the passive nature of optical fiber also eliminates this possibility of network failure. 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. Because both sides of the link are always open, the network will automatically re-establish the primary link as soon as both sides of the network and the endpoint devices become operational.

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

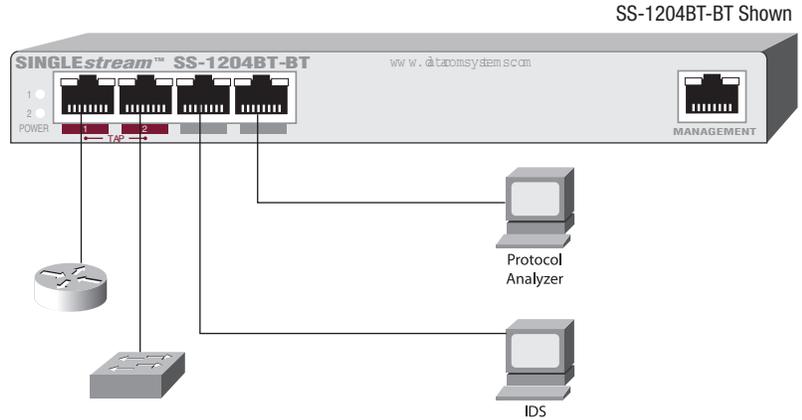
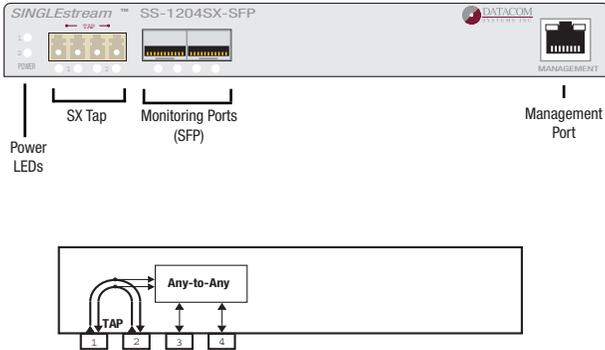
- View entire full-duplex conversations using single-interface monitoring tools
- Decreased reliance on switch resources for network management visibility - eliminate SPAN port contention, oversubscription, and configuration errors
- After installation, deploy tools right away without impacting your 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
- 100% Network Uptime - Multi-mode fiber tap is completely passive and won't disrupt the network even if power is lost to the tap
- Monitoring Port Speeds from 10 to 1000MB, full duplex, half duplex, or auto-negotiate
- Stays invisible to the network for enhanced security
- SFP Flexibility - monitor fiber links with copper tools
- Flexible traffic flow to monitoring tools - single-direction or bidirectional for traffic injection
- Dual Redundant Power ensures monitoring uptime

SINGLEstream™ Link Aggregation Tap (SX) with 2 - SFP Monitoring Ports

SS-1204SX-SFP



Technical Specifications - SS-1204SX-SFP

PORTS

Network: One (1) Multi-Mode Tap [50 or 62.5 Micron]
Monitoring: Two (2) SFP Any-to-Any Ports
Management: RJ45 @ 100Mbps Full-Duplex
Serial: DB9F

POWER REQUIREMENTS

Two (2) External AC Adapters (Included)
Input: 100-240VAC, 50-60 Hz, 0.4-0.2A
Output: 5VDC, 2.5A

CERTIFICATIONS

CE
Fully RoHS Compliant

PHYSICAL DIMENSIONS (HXWXD)

1.10 x 8.00 x 7.00 in (2.79 x 20.32 x 17.78 cm)

WEIGHT

1.6 lbs (0.7 kgs)

ENVIRONMENTAL

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

WARRANTY

Two (2) Year Limited Warranty

ORDER INFORMATION

Product	Description
SS-1204SX-SFP	SINGLEstream™ Link Aggregation Tap (SX)* with 2 - SFP Monitoring Ports
*SX	Specify 50 or 62.5 Micron
SFP	SFP-LX, SFP-SX or SFP-RJ45 (Required Additional Purchase)

Optional Equipment

RMC-2	2-TAP 1U Rack Mount Chassis
RMC-12-2	12-TAP 6U Rack Mount Chassis
RPS-12-5-AC (or -DC)	12-TAP Dual Redundant Rack Mountable Power Supply Unit (specify AC or DC)



Contact NextGig Systems 805-277-2400 NextGigSystems.com