

Full-Duplex Visibility for Single Interface Monitoring Solutions



Full Duplex Aggregation



Monitoring network traffic from two different sources is an important and frequent requirement in network analysis,

commonly referred to as data “aggregation.” For example, in order to properly troubleshoot most network problems, network professionals need to receive traffic from both sides of a full duplex conversation.

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 SINGLEstream™ Link Aggregation Tap combines both directions of a 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.

Dual Stream Mode



For dual-receive capable tools and 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).

LINKprotect™



Many traditional taps prevent the operation of redundant routing and failover systems because they keep both sides of the network

invisible to the other. The built-in LINKprotect™ feature eliminates this point of network failure by continuously monitoring both sides of the tapped network for link status. If one side of the link fails for any reason, LINKprotect™ will close the other side of the link immediately, so routers and switches can engage redundant protocols and failover systems.

LINKprotect™ will also keep monitoring both sides of the link until they become available again, where it can then automatically re-establish the primary link. Timers (polling and recovery) and link re-establishment settings (manual or auto) are all user-configurable on both sides of the link and provide a level of convenience and flexibility not previously available in copper Gigabit taps.

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

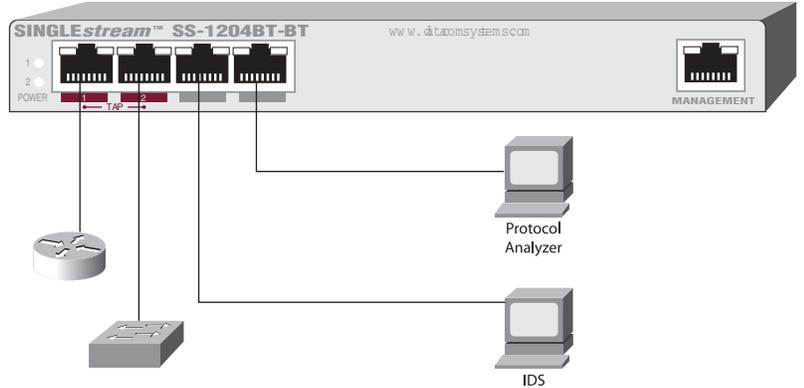
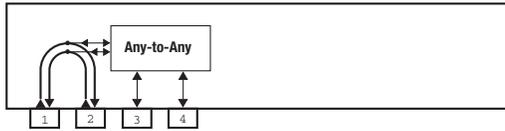
Unlike setting up operating systems and binding NICs, the SINGLEstream™ Link Aggregation Tap is simple to deploy, and every unit comes with dual redundant power supplies to ensure monitoring uptime.

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
- LINKprotect™ - ensure automatic failover and recovery of redundant paths and routing protocols
- Regeneration - Send copies of traffic from the tap to multiple connected tools to share data sources
- Port Speeds from 10 to 1000MB, full duplex, half duplex, or auto-negotiate
- Stays invisible to the network for enhanced security
- Compatible with all major manufacturers' monitoring systems and analyzers
- Flexible traffic flow to monitoring tools - single-direction or bidirectional for traffic injection
- Dual Redundant Power ensures monitoring uptime

SINGLEstream™ 10/100/1000 Link Aggregation Tap
SS-1204BT-BT

Technical Specifications - SS-1204BT-BT
PORTS

Network: One (1) 10/100/1000 Network Tap (RJ45)
 Monitoring: Two (2) 10/100/1000 Any-to-Any Ports (RJ45)
 Management (front): RJ45 @ 100Mbps Full-Duplex
 Serial (rear): DB9F

POWER REQUIREMENTS

Two (2) External AC Adapters (Included)
 Input: 100-240VAC, 50-60Hz, 0.6-0.3A
 Output: 5VDC, 2A

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)

ENVIRONMENT

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

WARRANTY

Two (2) Year Limited Warranty

ORDER INFORMATION

Product	Description
SS-1204BT-BT	SINGLEstream™ 10/100/1000 Link Aggregation Tap with 2 - 10/100/1000 Monitoring Ports
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