

# SINGLEstream™ Dual Link Aggregation Tap (BT) with 6 - Monitoring Ports (4-BT/2-SFP) SS-2210BT-BT/SFP-S

Provide Multiple Tool Access and Achieve Full-Duplex Visibility for Two (2) In-Line Network Links even with Single Interface Solutions



## Aggregation



Monitoring full duplex network traffic from multiple sources is often a critical requirement for network monitoring applications.

For example, in order to properly monitor redundant networks or a pair of load balanced links, network professionals might need to receive traffic simultaneously from two different network segments.

In some cases, two 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. If an analyzer or monitoring device is put on only one physical link, it will not see the entire conversation

The SINGLEstream™ Dual Link Aggregation Tap has two (2) 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.

## 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 tap loses link status, LINKprotect™ will close the other side of the link, so routers and switches can engage protocols to bypass the failed link.

LINKprotect™ will also keep monitoring both sides of the link until repaired, 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.



## Any-to-Any



Any of the Singlestream's six (6) any-to-any ports can be configured as input (network) or output (monitoring) ports on the fly through easy to use command line interface (CLI). Any monitoring port can receive traffic from any of the other ports, eliminating the need for network managers to change complex network configurations or move tools around their network. Any-to-any ports can also be configured to receive data from a switch's SPAN port providing the flexibility of a combined in-line and out-of-band monitoring solution.

## Dual Stream Mode



For dual-receive capable tools and times when there is no substitute for full line rate data capture, the SINGLEstream™ can be configured to work exactly like a traditional full duplex tap, providing a copy of full-rate data to connected tools in two separate streams (Tx and Rx).

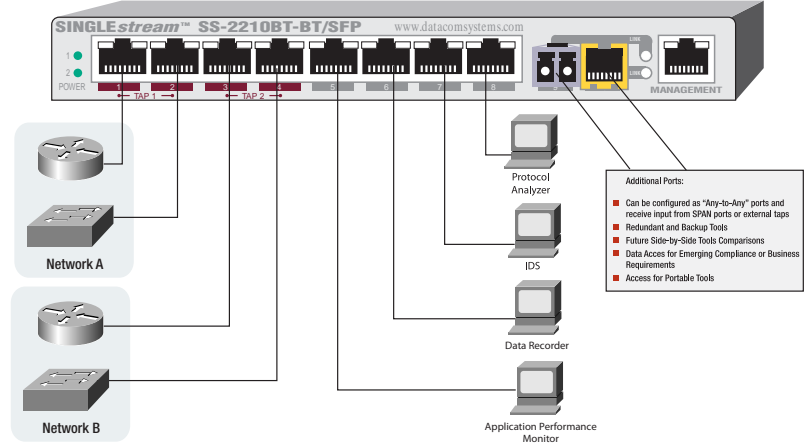
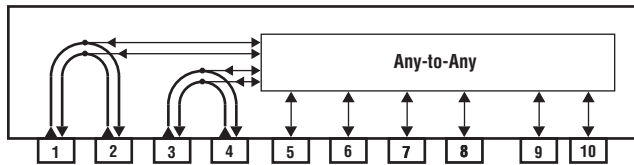
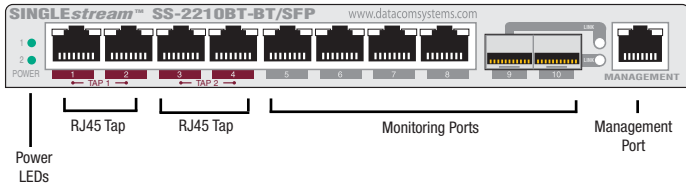
## Benefits

- View entire full-duplex conversations even across redundant or load balanced links using single-interface monitoring tools
- Save money by reducing number of required tools or tool interfaces necessary to monitor all your data
- 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
- Single point of deployment and remote management minimizes management expenses and reduces MTTR
- Automatic coverage of redundant network - One tool can monitor two networks

## Features

- Aggregation - Receive copies of 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
- Any-to-Any - port steer traffic to different tools or turn monitoring ports into additional network ports to receive input from SPAN
- Port Speeds from 10 to 1000MB; supports full duplex, half duplex, or auto-negotiate
- SSH, SNMPv3
- Flexible traffic flow to monitoring tools - single-direction or bidirectional for traffic injection

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**SS-2210BT-BT/SFP-S**


## Technical Specifications -SS-2210BT-BT/SFP-S

### PORTS

Network: Two (2) 10/100/1000 Network Taps (RJ45)  
 Monitoring: Four (4) RJ45 and 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, 50-60Hz, 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°C)  
 Humidity: 5 to 90% non-condensing

### WARRANTY

Two (2) Year Limited Warranty

### ORDER INFORMATION

Product	Description
SS-2210BT-BT/SFP-S	SINGLEstream™ Dual Link Aggregation Tap (BT) with 6 Monitoring Ports (4-BT/2-SFP), with SSH, SNMP
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)



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