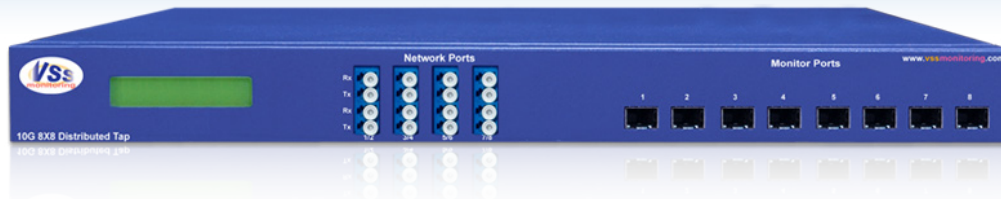




v2x2-v8x8 10 GigE Distributed Filter Taps

V 2.2 S.X/L.X/E.X | V 2.4 S.X/L.X/E.X | V 2.8 S.X/L.X/E.X

V 4.4 S.X/L.X/E.X | V 4.8 S.X/L.X/E.X | V 6.2 S.X/L.X/E.X | V 8.8 S.X/L.X/E.X



Benefits

- 10 GigE Inline or SPAN monitoring
- Aggregation reduces required ports on monitoring devices
- Input filters eliminate packet loss
- Easy plug and play installation
- Remote management via browser and command line interface
- Shields Monitoring Device From Intruders

Features

- Full line-rate traffic capture
- Configurable input /output
- Selective aggregation
- Hardware-Based Filtering on OSI layers 2-7 (including custom offset filter)
- Session-Aware Load Balancing
- vStack+™ Intelligent stacking*
- Graphical user interface via HTTP/HTTPS and CLI via Telnet or local console
- SNMPv3 with RMON
- RADIUS / TACACS+ Support (AAA)
- In-field upgradable
- Dual, redundant AC and/or DC power supplies

*Optional

Distributed Taps

VSS Monitoring is at the forefront of selective aggregation technology to help end-users get the most from their network monitoring tools. Filtering provides a new level of sophistication to an already intelligent networking device. Through a graphical user interface or command line interface, users may configure any of the thousands of permutations of filters possible on the VSS Distributed Filter Taps, enabling their monitoring tools to scale to new levels like never before. Monitoring tools no longer need to process packets that are not of interest. This allows the tools to perform only their intended purpose and eliminate the overhead of unwanted packets.

The need for this has become apparent with the number of tools built upon commercial, off-the-shelf platforms whereby the monitoring tool vendor has utilized a standard chassis and has no hardware acceleration. Hardware-Based Filtering can also be incredibly useful as a way to reduce traffic for upstream aggregation, thereby allowing users to “stack” distributed taps for port density.

Product Description

The v2x2 to v8x8 Distributed Filter Taps make up a highly flexible, intelligent traffic capture family of devices for 10 GigE networks. The tap family features two, four, six, or eight fixed LC ports and two, four, six, or eight XFP ports. Each XFP port ships with an XFP module. All ports are configurable as either SPAN (unidirectional) inputs or monitor outputs. As an option, the fixed LC ports can be ordered as inline tap port pairs for passive network access. With the inline build, the XFP ports remain Input/Output configurable.

This device can be locally managed via a serial console and remotely managed via Telnet, HTTP, HTTPS, SNMPv3. A filter option enables users to select, at the packet level,

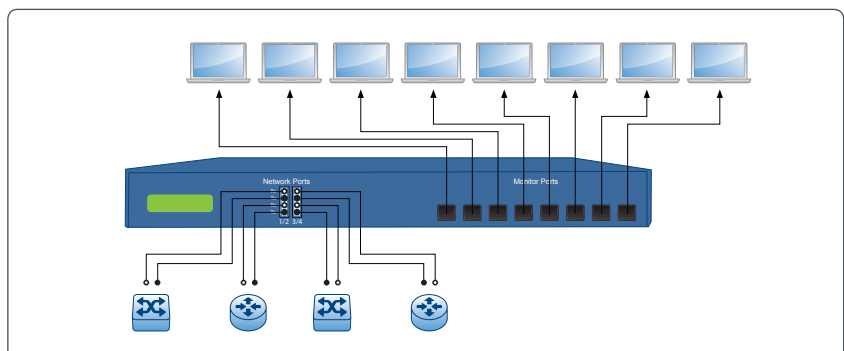


Figure 1 - Deployment Diagram for v4x8 Distributed Filter Tap

distinguished according to source and destination MAC/IP address as well as by specific protocols, such as HTTP, VoIP, and others. SNMP traps enable user notification of port status, user login, and management configuration changes. A custom filter offset allows monitoring devices targeted at specific protocols to view tunneled traffic, e.g. GTP tunnels, to view only the traffic of interest.

Session-Aware Load Balancing increases user control of traffic distribution to monitoring tools, increasing output capacity while maintaining session integrity. For example, a 10 GigE network can be captured and automatically balanced across multiple Gigabit monitor tools based on user-defined session criteria. Session-Aware Load Balancing can operate in tandem with Hardware-Based Filtering or independently.

All 10 GigE Distributed Taps also support VSS' proprietary intelligent stacking technology, vStack+, which enables traffic capture devices to be deployed in a redundant, low-latency mesh for total, dynamic, fault-tolerant visibility.

Redundant power supplies allow seamless transitions between power systems and ensure uptime. All VSS managed devices support field firmware updates for additional features and performance enhancements.

Technical Specifications

Mechanical												
Unit Type:	V 2.2 S.X / L.X / E.X		V 2.4 S.X / L.X / E.X		V 2.8 S.X / L.X / E.X		V 4.4 S.X / L.X / E.X		V 4.8 S.X / L.X / E.X		V 8.8 S.X / L.X / E.X	
Total Weight:	15 lb / 6.8 kg		15 lb / 6.8 kg		15 lb / 6.8 kg		16 lb / 7.3 kg		16 lb / 7.3 kg		16 lb / 7.3 kg	
Size:	17.3"(w) x 22.5"(d) x 1.75"(h) / (441mm x 572 mm x 44.5mm) 1RU High, Fits standard 19" Rack, 21" Deep											
Fiber Network Ports:	(x2)		(x2)		(x2)		(x4)		(x4)		(x8)	
Input/Output Ports:	(x4)		(x6)		(x10)		(x8)		(x12)		(x16)	
XFP 10 GigE Ports:	(x2)		(x4)		(x8)		(x4)		(x8)		(x8)	
Performance												
Full Line Rate:	40 Gbps		60 Gbps		100 Gbps		80 Gbps		120 Gbps		160 Gbps	
Power												
AC Voltage: 90 to 264 V	43.5 W		56.5 W		73.0 W		56.5 W		73.0 W		73.0 W	
DC Voltage: -40 to -72 V	29.0 W		37.6 W		48.5 W		37.6 W		48.5 W		48.5 W	
Environmental												
Temperature:	0 – 55 degrees C (operating); -20 – 100 degrees C (storage)											
Humidity:	5% – 95%, non-condensing											
Data												
Rates:	10 Gbps											
Types:	Ethernet 10G Base-LR, 10G Base-ER, 10G Base-ZR, 10G Base-SR, 10G Base-CX4, 10G Base-T											
Propagation Delay												
Network Cable Distance:	100M											
Network to Network:	< 340 ns											
Network to Monitor:	< 2.6 µs											
Optical Splitter Loss												
Split Ratio:	90:10			80:20		70:30		60:40		50:50		
Wavelength:	Insertion Loss (dB)	Net	Mon	Net	Mon	Net	Mon	Net	Mon	Net	Mon	
	850nm SR	< 1.6	< 10.8	< 1.9	< 8.0	< 2.5	< 6.3	< 3.2	< 4.9	< 4.0	< 4.0	
	1300nm LR	< 1.3	< 10.8	< 1.9	< 8.0	< 2.5	< 6.3	< 3.2	< 4.9	< 4.0	< 4.0	
	1310/1550nm LR/ER	< 0.7	< 11.4	< 1.4	< 7.9	< 1.9	< 6.0	< 2.7	< 4.7	< 3.6	< 3.6	



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VSS Monitoring, Inc. is the world's leading innovator of Distributed Traffic Capture Systems™ and network taps, focused on meeting the rapidly evolving requirements of security and performance conscious network professionals. Distributed Traffic Capture Systems herald a new architecture of network monitoring, one which fundamentally improves its capability and price-performance.

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