



v2x16 Distributed Tap

V 2.16 X.C-NF-AF | V 2.16 X.S-NF-AF | V 2.16 X.L-NF-AF | V 2.16 X.Z-NF-AF



Benefits

- Bridges the gap between Gigabit and 10 GigE networks
- 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
- LinkSafe™ and vAssure™ for copper network reliability and ensuring proper spanning tree failover
- 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 (HTTP/HTTPS)
- SNMPv3 with RMON1
- RADIUS / TACACS+ Support (AAA)
- In-field upgradable

*Optional

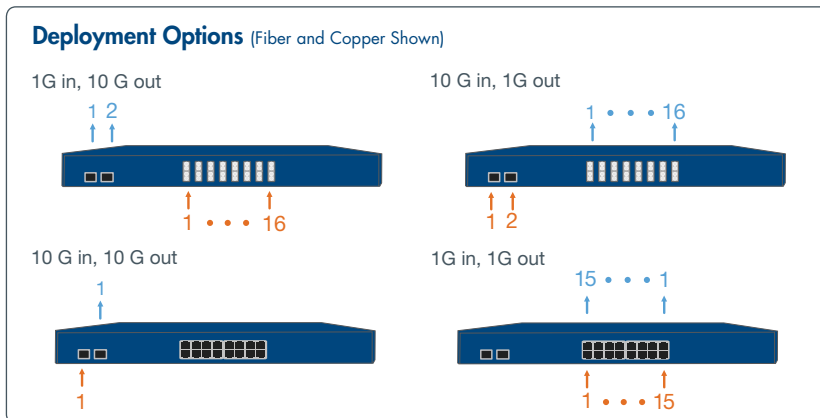
Distributed Taps

VSS Monitoring is at the forefront of selective aggregation technology to help end-users get the most from their network monitoring tools. Hardware-Based 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 v2x16 Distributed Tap is a highly flexible, intelligent traffic capture device for networks ranging from 10Mbps to 10 GigE. The device features two XFP ports, and 16 dedicated copper UTP 10/100/1000 or 16 Fiber Gigabit ports. Each of the 18 ports is independently controllable and flexible, allowing the user to forward any group of network ports to any monitoring device. All ports are configurable as either SPAN (unidirectional) inputs or monitor outputs. As an option, the LC ports can be ordered as inline tap ports 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, what traffic is forwarded to the designated monitor ports. Hardware-Based Filtering allows traffic to be distinguished according to source and destination MAC/IP address as well as by specific protocols, such as HTTP, VoIP, and others. A custom filter offers more granular specification of a filter, specifically within the payload of a packet.

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 up-time. All VSS managed devices support field firmware updates for additional features and performance enhancements.

Technical Specifications

Mechanical													
Unit Type:	V 2.16 X.C-NF-AF	V 2.16 X.S-NF-AF				V 2.16 X.L-NF-AF				V 2.16 X.Z-NF-AF			
Total Weight:	15 lb. / 6.8 kg.												
Size:	17.3" (w) x 22.5" (d) x 1.75" (h) / (441 mm x 572 mm x 44.5mm) 1RU High, Fits standard 19" Rack, 21" Deep												
Copper Network Ports:	(x16)	N/A				N/A				N/A			
Fiber Network Ports:	N/A	(x16)				(x16)				(x16)			
Input/Output Ports:	(x18)	(x18)				(x18)				(x18)			
XFP 10 GigE Ports:	(x2)	(x2)				(x2)				(x2)			
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	< 2.0	< 8.0	< 2.7	< 6.3	< 3.3	< 4.9	< 4.1	< 4.0		
	1300nm SR	< 1.3	< 10.8	< 1.9	< 8.0	< 2.5	< 6.3	< 3.2	< 4.9	< 4.0	< 4.0		
	1310/1550nm LX/ZX	< 0.7	< 11.4	< 1.4	< 7.9	< 1.9	< 6.0	< 2.7	< 4.7	< 3.6	< 3.6		
Performance													
Full line rate:	36 Gbps												
Environmental													
Temperature:	0 – 55 degrees C (operating); -20 – 100 degrees C (storage)												
Humidity:	5% – 95%, non-condensing												
Data													
Rates:	10 Mbps - 10 Gbps												
Types:	Ethernet, 10Base-T, 100Base-Tx, 1000 Base-T, 1000 Base-SX, 1000 Base-LX, 1000 Base-ZX, 10 GigE Base-LR, 10 GigE Base-ER, 10 GigE Base-ZR, 10 GigE Base-SR, 10 GigE Base-CX4, 10 GigE Base-T												
Propagation Delay													
Network Cable Distance:	100M												
Network to Network:	< 6µs					< 1ns							
Network to Monitor:	< 2ms												
Power													
AC Voltage: 90-264V	95.8 W					76.7 W							
DC Voltage: 40-72V	75.0 W					65.0 W							



Network Visibility. Optimized.

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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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