Distributed Series™

v2x16/v4x24 Distributed TAPs

V 4.24 X.C | V 4.24 X.S | V 4.24 X.L | V 4.24 X.Z
V 2.16 X.C | V 2.16 X.S | V 2.16 X.L | V 2.16 X.Z

Benefits

- Gain intelligent and optimized network packet visibility and access
- Build unlimited and dynamic monitoring coverage
- Set automatic responses to changing network equipment and bandwidth conditions
- Reduce capital and operational costs
- Plug and play installation
- Centrally, remotely, and/or locally manage network intelligence and access
- Low latency throughput to monitor output
- Network to monitor tool media and speed conversion
- Shield monitoring devices from intruders
- Complete data access at full line-rates
- Boost efficiency of analytic tools

Features

- Supports 10/100/1000, 1G, and 10G access at full line rates
- Filtering: hardware-based, user-independent on OSI layers 2-7 (includes custom offset, ingress and egress, and overlapping filters)*
- Session-based/flow-aware load balancing (includes Inner Layer 3 and Layer 4 MPLS and GTP Load Balancing)*
- vStack+™ Network Intelligence Optimization System building (stacking)*
- Selective Aggregation (any-to-any port mapping)
- Ports configurable (I/O) for network access or monitor output**
- Supports passive Inline and SPAN access
- Local, remote management: API, CLI, and GUI (HTTP/HTTPS, Telnet/SSH, SNMPv1-3)
- AAA security (RADIUS, TACACS+)
- Multi-user access with defined privleges, unique screen views, and management accessibility restrictions
- Policy-based event triggering and actions
- VLAN tagging
- Port and Time Stamping *
- Conditional packet slicing / trimming by packet type (vSlice™)*
- Protocol (GTP header, MPLS label, VN tag, and VLAN tag) stripping / de-encapsulation *
- Dual, redundant, universal power supplies (AC, DC options)

**Feature requires additional activation key on some models*
***Fiber SPAN and Copper versions only*

Network Intelligence Optimization Systems

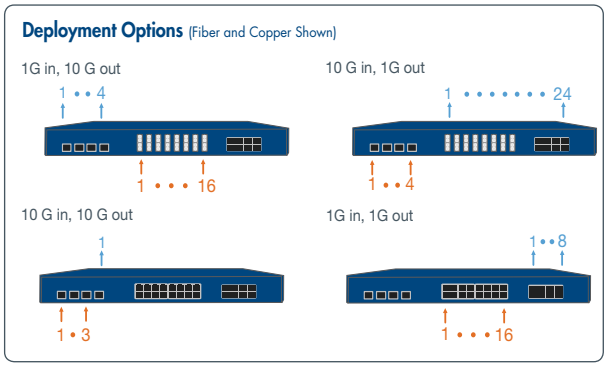
VSS Monitoring helps you get so much more from your network intelligence infrastructure. Using our Network Intelligence Optimization Systems, you make better use of your analytical tools and security tools, simplify operational complexity and realize a higher ROI from greater cost savings and service quality improvements.

By optimizing the network intelligence tools in your network and data centers, VSS solves a variety of your problems - simplifying the access of analytical tools and security tools to your network, accelerating the time to diagnose performance problems and security incidents, and making sure CAPEX and OPEX costs scale as the network grows.

With our visionary, systems-approach to Network Intelligence Optimization, you get the flexibility of modularity to deploy just what you need and when, the completeness of support across the entire network intelligence universe of analytical tools and security tools, and the assurance of maximum reliability with automated, system-wide fault tolerance.

Product Description

VSS' v2x16/v4x24 Distributed TAPs are Distributed Series models that bridge the gap between Gigabit and 10 GigE networks. The v2x16 has two 10G XFP and sixteen 1G UTP (or Fiber LC) ports. The v4x24 has four 10G XFP ports, sixteen 1G UTP (or Fiber LC) and eight 1G SFP ports. Any port can be designated an input or an output port**. In the case of the copper versions (UTP), the inputs can be user-configured for either Inline or SPAN access. With the fiber versions, the inputs are factory configured for either Inline or SPAN access. The fiber SPAN versions are fully I/O configurable, while the fiber Inline versions are fixed where the built-in network ports are inputs only and are completely passive. Mixed fiber variations are also available. The product is available in two editions: Standard and Advanced.



This device can be locally managed via a serial console and remotely managed via Telnet, SSH, 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, User -Independent 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. Filters can be ingress, egress, and overlapping.

Session-based, Flow-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-based, Flow-aware Load Balancing can operate in tandem with Hardware-based Filtering or independently.

The Advanced editions have additional hardware resources behind the 2 or 4 10G and 16 fixed 1G ports for features including time & port stamping, protocol stripping, and slicing by packet type(s). Options also extend Load-Balancing to inner layer 3 and 4 packets headers, in MPLS or GTP encapsulation.

All Distributed Series products 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.

VSS' Distributed Series of products also provide automated even driven monitor output traffic direction and responses (Syslog messages, SNMP traps, light front LED, deactivate ports) with five user-definable trigger event types.

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

Technical Specifications

Mechanical												
Unit Type:	V 2.16 X.C-NF-A V 2.16 X.C-NF-PM	V 4.24 X.C-NF-A V 4.24 X.C-NF-PM	V 2.16 X.S-NJ-A V 2.16 X.S-NJ-PM	V 4.24 X.S-NJ-A V 4.24 X.S-NJ-PM	V 2.16 X.L-NJ-A V 2.16 X.L-NJ-PM	V 4.24 X.L-NJ-A V 4.24 X.L-NJ-PM	V 2.16 X.Z-NF-PM V 2.16 X.Z-NJ-PM	V 4.24 X.Z-NJ-A V 4.24 X.Z-NJ-PM				
Copper Network Ports:	(x16)	(x16)	N/A	N/A	N/A	N/A	N/A	N/A				
Fiber Network Ports:	N/A	N/A	(x16)	(x16)	(x16)	(x16)	(x16)	(x16)				
Input/Output Ports:	(x18)	(x28)	(x18)	(x28)	(x18)	(x28)	(x18)	(x28)				
SFP Ports:	N/A	(x8)	N/A	(x8)	N/A	(x8)	N/A	(x8)				
XFP 10 GigE Ports:	(x2)	(x4)	(x2)	(x4)	(x2)	(x4)	(x2)	(x4)				
Total Weight:	15 lb. / 6.8 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											
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 SX	< 1.2	< 11.6	< 1.9	< 8.3	< 2.4	< 6.3	< 3.0	< 5.0	< 4.0	< 4.0	
	1310/1550nm LX/ZX	< 0.6	< 11.3	< 1.2	< 7.9	< 1.9	< 6.0	< 2.7	< 4.7	< 3.6	< 3.6	
Performance												
Full line rate:	36 Gbps	64 Gbps	36 Gbps	64 Gbps	36 Gbps	64 Gbps	36 Gbps	64 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 max											
Network to Network:	< 340ns	< 340ns	< 3.2ns									
Network to Monitor:	To: 10M <1.2ms, 100M <124µs, 1G <13.2µs, 10G <2.6µs											
Power												
AC Voltage: 90 to 264 V, 50/60 Hz	95.8W,1.07A max. 153 W,1.70A max.	134.2W,1.5A max. 187.9W, 2.1A max.	76.7W,852mA max. 134 W,1.49 A max.	115.0W,1.3A max. 172.5W,1.92A	76.7W, 852mA max. 134W, 1.49A max.	115.0W,1.3A max. 172.5W,1.92A max.	76.7W, 852mA max. 134 W, 1.49A max.	115.0W,1.3A max. 172.5W,1.92A max.				
DC Voltage: -40 to -72 V	75.0W, 1.88A max. 115 W, 2.88A max.	105.0W, 2.65A max.	65.0 W,1.63 A max. 105 W, 2.63 A max.	97.8W, 2.45A max.	65.0 W,1.63 A max. 105 W, 2.63 A max.	97.8W, 2.45A max. 146.7W, 3.7A max.	65.0W, 1.63A max. 105W, 2.63 A max.	97.8W, 2.45A max. 146.7W, 3.7A max.				

* *Note: All insertion loss values are for internal fiber in the product. An additional value of up to 0.5 dB should be added to each of these to account for connector insertion loss.*

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VSS Monitoring is a world leader in network packet brokers (NPB), providing a visionary, unique systems approach to integrating network switching and the broad ecosystem of network analytics, security, and monitoring tools.

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