v16x8 Distributed TAP

Product Brief

GAIN INTELLIGENT AND OPTIMIZED GIGABIT NETWORK PACKET VISIBILITY AND ACCESS

VSS Monitoring helps you maximize the return from your network intelligence infrastructure, allowing you to make better use of your monitoring and security tools, simplify operational complexity and realize a higher ROI from additional cost savings and service quality improvements.

VSS Distributed TAPs and vBroker™ appliances solve a variety of network-related IT challenges in your network and data centers, including improving the link-layer visibility and data access of monitoring and security tools, accelerating the time to diagnose performance problems and security incidents, and making sure CapEx and OpEx costs remain stable as network size and speeds grow.

With the vMesh™ approach to architecture, you get the flexibility and modularity to deploy just the appliances you need, with the ability to scale link-layer visibility and data access to a system-level architecture with up to 250+ devices and thousands of ports globally.

Product Description

v16x8 Distributed TAP is a high-port density 1G appliance, which has 16 UTP (or Fiber LC) ports and 8 SFP ports. Any port can be designated an input or output port[1]. In the case of the copper version (UTP), the inputs can be user-configured for either inline or SPAN. With the fiber version, the inputs are factory configured for either Inline or SPAN access. The Fiber SPAN version is fully I/O configurable, while the Fiber TAP version is fixed where the 16 built-in network ports are inputs only and are completely passive.

This device can be locally managed via a serial console and remotely managed via Telnet, SSH, HTTP, HTTPS, and 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

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 coverage
- 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 and 1G 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
- vStack+™ Network Intelligence Optimization System building (stacking)
- Selective Aggregation (any-to-any port mapping)
- Ports configurable (I/O) for network access or monitor output[1]
- 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
- Dual, redundant, universal power supplies (AC, DC options)

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1. Fiber SPAN and Copper versions only

I/O flexibility
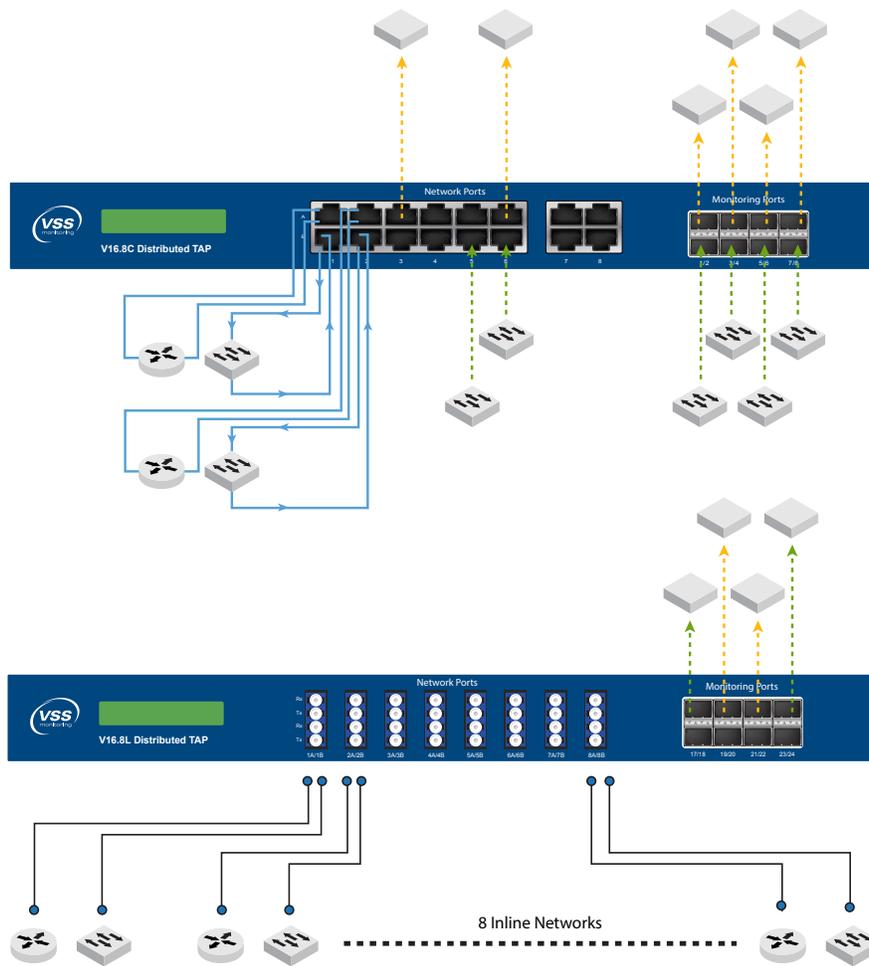
Fiber Inline

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 Gigabit network can be captured and automatically balanced across multiple Fast Ethernet monitoring tools based on user-defined session criteria. Session-aware Load Balancing can operate in tandem with Hardware based Filtering or independently.

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, faulttolerant visibility.

The Distributed Series of products also provide automated event-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 constant uptime. All VSS managed devices support field software updates for additional features and performance enhancements.

Technical Specifications

Unit Type:	V16.8C-F-AS	V16.8L-J-AS	V16.8S-J-AS
Port Types			
Copper Ports:	(x16)	N/A	N/A
Fiber Ports:	N/A	(x16)	(x16)
SFP Ports:	(x8)	(x8)	(x8)
Power			
AC Voltage: 100 to 240 V, 50/60 Hz	95.9W, 1.07A max.	76.7W, 852mA max.	76.7W, 852mA max.
DC Voltage: -48 to -60 V	75.0 W, 1.88A max.	65.0W, 1.63A max.	65.0W, 1.63A max.
Mechanical			
Total Weight (Copper/LC):	14.75 lb. / 6.7 kg.		
Total Weight (SC):	16.75 lb. / 7.6 kg.		
Size:	17.3"(w) x 22.5" (d) x 1.75" (h) / (441mm x 572 mm x 44mm) 1RU High, Fits standard 19" Rack, 21" Deep		

Splitter Loss

Split Ratio:		70:30		60:40		50:50	
Wavelength:	Insertion Loss (dB)*	Net	Mon	Net	Mon	Net	Mon
	850nm SR	< 2.4	< 6.3	< 3.0	< 5.0	< 4.0	< 4.0
	1310/1550nm LX/ZX	< 1.9	< 6.0	< 2.7	< 4.7	< 3.6	< 3.6

Performance	
Full line rate:	24 Gbps

Environmental	
Temperature:	0 – 45 degrees C (operating); -20 – 100 degrees C (storage)
Humidity:	5% – 95%, non-condensing

Data	
Rates:	10 Mbps - 1 Gbps
Types:	Ethernet, 10Base-T, 100Base-T, 1000 Base-T, 1000 Base-SX, 1000 Base-LX, 1000 Base-ZX , 1000 Base-LH

Propagation Delay		
Network to Network:	< 340ns	< 3.2ns
Network to Monitor:	To: 10M < 1.3ms, 100M < 130µs, 1G < 14µs	

* 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.

To learn more about the v16x8 Distributed TAPs, visit our website at www.vssmonitoring.com

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