v4x24 Distributed Tap

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

Benefits

- Bridges the gap between Gigabit and 10 GigE networks
- Aggregation reduces required ports on monitoring devices
- Input filters eliminate packet loss
- Local and remote management via graphical user interface (GUI) and command line interface (CLI)
- Easy plug and play installation
- 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**
- GUI via HTTP/HTTPS and CLI via Telnet/SSH
- SNMPv3 with RMON1
- RADIUS / TACACS+ Support (AAA)
- In-field upgradable
- VLAN tagging
- Time and Port Stamping**
- vSlice™**
- Protocol (GTP, MPLS, VLAN) stripping/de-encapsulation**

**Fiber SPAN and Copper versions only*

***Option*

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 Traffic Capture Systems (DTCS), 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.

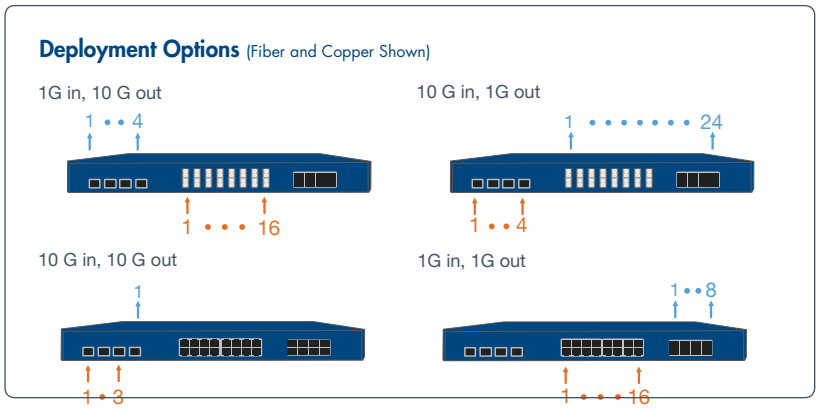
The need for this has become apparent with the number of tools built upon commercial, off-the-shelf platforms whereby the monitoring tool vendor has utilized a standard chassis and has no hardware acceleration. Hardware-Based Filtering can also be incredibly useful as a way to reduce traffic for upstream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

Product Description

The v4x24 Distributed Tap is a highly flexible, intelligent traffic capture device for networks ranging from 10Mbps to 10 GigE.

The device features four XFP ports, 16 dedicated copper UTP 10/100/1000 or 16 fiber Gigabit ports and eight SFP ports. Each of the 28 ports is independently controlled and flexible, allowing the user to forward any group of network ports to any monitoring device. As a standard, all Fiber 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. All copper ports are configurable either inline, SPAN and monitor outputs without any special build. 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 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.

The Advanced edition has additional hardware resources behind the 4 10G and 16 fixed 1G ports for features such as Port & Time stamping, Protocol stripping, and vSlice.

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 4.24 X.C-NF-A	V 4.24 X.C-NF-PM	V 4.24 X.S-NJ-A	V 4.24 X.S-NJ-PM	V 4.24 X.L-NJ-A	V 4.24 X.L-NJ-PM	V 4.24 X.Z-NJ-A	V 4.24 X.Z-NJ-PM				
Copper Network Ports:	(x16)		N/A		N/A		N/A					
Fiber Network Ports:	N/A		(x16)		(x16)		(x16)					
Input/Output Ports:	(x28)		(x28)		(x28)		(x28)					
SFP Ports:	(x8)		(x8)		(x8)		(x8)					
XFP 10 GigE Ports:	(x4)		(x4)		(x4)		(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		< 1.6	< 10.8	< 2.0	< 8.0	< 2.7	< 6.3	< 3.3	< 4.9	< 4.1	< 4.0
	1300nm SX		< 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:	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		< 3.2ns									
Network to Monitor:	To: 10M <1.2ms, 100M <124µs, 1G <13.2µs, 10G <2.6µs											
Power												
AC Voltage: 90-264 V	134.2 W	187.9 W	115.0 W	172.5 W	115.0 W	172.5 W	115.0 W	172.5 W				
DC Voltage: 40-72 V	105.0 W	140.0 W	97.8 W	146.7 W	97.8 W	146.7 W	97.8 W	146.7 W				

VSS monitoring

Network Visibility. Optimized.

USA
(Corporate HQ)
+ 1 650 697 8770 phone
+ 1 650 697 8779 fax
38 Adrian Court
Burlingame, CA 94010
USA

Japan
+ 81 422 26-8831 phone
+ 81 422 26-8832 fax
T's Loft 3F, 1-1-9,
Nishikubo, Musashino,
Tokyo, 180-0013
Japan

China
+ 86 10 6563-7771 phone
+ 86 10 6563-7775 fax
C519, 5 Floor,
CBD International Tower
16 Yong'An Dong Li,
Beijing, China 100022

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.

0800-20100826.0952r-009