

# v16x8 Copper Distributed TAP

## Gain Intelligent and Optimized Network Packet Visibility and Access

### HIGHLIGHTS

- 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
- 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 privileges, unique screen views, and management accessibility restrictions
- Policy-based event triggering and actions
- VLAN tagging
- Dual, redundant, universal AC & DC power supplies

### Network Packet Brokers

NETSCOUT® helps you maximize the return from your network intelligence infrastructure. Using our Optimizer Series of network packet brokers, you can 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.

The Optimizer Series 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™ architecture, you get the flexibility and modularity to deploy just the appliances you need and when, with the ability to scale link-layer visibility and data access to a system-level architecture with over 250<sup>1</sup> devices and 4,000<sup>2</sup> ingress ports, globally. The business benefits include more flexible capital requirements, higher tool utilization and ROI, and lower operating costs.

### Product Description

v16x8 Distributed TAP redefines the economics of monitoring infrastructure without requiring administrators to reinvent network operations. It supports line-rate performance, network packet broker features, and network tapping at the price point of dedicated SPAN port aggregator switches.

The v16x8 is a high port-density, scalable Optimizer Series model that bridges the gap between 10M/100M and 1G networks. Each appliance has 16 UTP copper ports and eight SFP ports. Any port can be designated an input, output, or intermediate port. The ports can be user-configured for either passive TAP or SPAN inputs.

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

<sup>1</sup> Total number of packet flow switches in a single vMesh is dependent on device sizes, number of ports, and complexity of filtering.

<sup>2</sup> Total number of ports in a single vMesh is dependent on quantity and complexity of filtering.



v16.8C-F-AS | Ports: Copper x16, SFP x8

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 100M monitor tools based on user-defined session criteria. Session-based, Flow-aware Load-Balancing can operate in tandem with Hardware-based Filtering or independently.

All Optimizer Series products support the NETSCOUT 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. Optimizer Series products can also fully interoperate with vBroker and nGenius 2204/4204 packet flow switch products as a part of vMesh.

The Optimizer 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 for seamless transitions between power systems and ensure uptime. All NETSCOUT managed devices support field software updates for additional features and performance enhancements.

## SPECIFICATIONS

### v16.8C-F-AS Copper Distributed TAP

<b>Management Ports</b>	3 Ports: 2 x 10/100/1000 UTP Ethernet, 1 x RS-232 DB9 Serial
<b>Data Ports</b>	24 Ports: 16 x Copper, 8 x SFP
<b>Data Rates</b>	10 Mbps - 1 Gbps
<b>Full line rate</b>	24 Gbps
<b>Network to Monitor</b>	< 13.2µs
<b>Network to Network</b>	< 340ns
<b>Interface Types</b>	10Base-T, 100 Base-FX, 100Base-T, 1000 Base-T, 1000 Base-SX, 1000 Base-LX, 1000 Base-ZX, 1000 Base-LH
<b>Dimensions</b>	17.3 in (441 mm) Width 22.5 in (572 mm) Depth 1.75 in (44 mm) Height
<b>Weight</b>	14.75 lb (6.7 kg)
<b>Operating Voltage (AC)</b>	100 to 240 V, 50/60 Hz
<b>Maximum Power (AC)</b>	95.9W, 1.07A max.
<b>Operating Voltage (DC)</b>	-48 to -60 V
<b>Maximum Power (DC)</b>	75.0 W, 1.88A max.
<b>Operating Temperature</b>	0 to 45°C
<b>Storage Temperature</b>	-20 to 100°C
<b>Operating Humidity</b>	5% to 95% (non-condensing)

## 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

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