

Optimizer 2400

Product Brief

GAIN INTELLIGENT AND OPTIMIZED NETWORK PACKET VISIBILITY AND ACCESS



Network Packet Brokers

VSS Monitoring 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.

VSS Optimizer 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 devices and 4,000 ingress ports, globally. The business benefits include more flexible capital requirements, higher tool utilization and ROI, and lower operating costs.

Product Description

The VSS Optimizer 2400 redefines the economics of monitoring infrastructure without requiring administrators to reinvent network operations. The Optimizer 2400 supports line-rate performance and network packet broker features at the price point of dedicated SPAN port aggregator switches. The Optimizer 2400 is a high-end, scalable Optimizer Series model that bridges the gap between Gigabit and 10G networks. Each model has four fixed 10G Fiber LC ports and 20 SFP+ ports. The fixed media ports are factory configured with SR/SX optics.

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.



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 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
- vStack+™ Network Intelligence Optimization System building (stacking)
- Selective Aggregation (any-to-any port mapping)
- Ports configurable (I/O) for network access or monitor output
- 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

* Feature requires additional software option monitoring tools or packet brokers

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 10G 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.

All Optimizer Series products support the 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. Optimizer Series products can also fully interoperate with vBroker, Distributed, Finder, and Protector Series products as a part of vMesh.

The VSS 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 VSS managed devices support field software updates for additional features and performance enhancements.

Technical Specifications

Mechanical											
Unit Type:	Optimizer 2400										
Fiber Network Ports:	(x4)										
Input/Output Ports:	(x20-24)										
SFP+ Ports:	(x20)										
TAP Pair 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	< 1.2	< 11.6	< 1.9	< 8.3	< 2.4	< 6.3	< 3.0	< 5.0	< 4.0	< 4.0
	1310/1550nm LR/ZR/ER	< 0.6	< 11.3	< 1.2	< 7.9	< 1.9	< 6.0	< 2.7	< 4.7	< 3.6	< 3.6
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										
Performance											
Full line rate:	240 Gbps										
Environmental											
Temperature:	0 – 45 degrees C (operating); -20 – 100 degrees C (storage)										
Humidity:	5% – 95%, non-condensing										
Data											
Rates:	Gbps - 10 Gbps										
Types:	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 TwinAX, 10 GigE Laserwire										
Propagation Delay											
Network to Network:	< 3.2ns										
Network to Monitor:	< 13.2µs										
Power											
AC Voltage: 1 00-240V, 50/60 Hz	180 W, 2.0 A max.										
DC Voltage: - 48V to -60V	180 W, 4.5 A 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.



For more information please contact us at info@vssmonitoring.com

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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