VERSAstream™ VS-1224

24 Port Any-to-Any Switch with Load Balancing and Packet Filtering

Cost Effective Monitoring and Flexible Speed Conversion

10G monitoring tools have become common yet 1G copper links still require monitoring. This challenge can be solved by leveraging 10G test and monitoring tools to monitor 1G traffic. Data copies from Taps and SPAN ports can be handed off as 1G fiber/copper and/or 10G fiber - to the VERSAstream VS-1224 network packet broker.

Load Balancing

Balance traffic across multiple ports to allow growth as the volume of data increases. Load balancing helps prevent loss of data by enabling deployment of redundant security tools that can back each other up, in the event of failure or during while their software updates. As links get faster, you need to be able to distribute traffic across lower speed analysis tools. Load balancing allows you to extend the life of existing lower speed devices as your network traffic increases.

Data Filtering

Instead of tools attempting to keep up with high-speed aggregates traffic streams, the VERSAstream can apply packet filters to the data to increase tool efficiency and eliminate port oversubscription. Line-rate hardware filtering on each port allows you to customize and streamline the amount and type of data each connected monitoring tool receives. Because they are receiving only traffic of interest, tools run faster, data is more manageable, and issues are resolved quicker. Command line filtering uses Wireshark based syntax.

Aggregation and Regeneration

Aggregation allows multiple data streams to be merged, providing visibility for one or more tools. Optimal for tools that don't support multiple NICs, or for redundant networks, load balanced servers, etc. Regeneration can send multiple copies of the data streams to multiple tools , eliminating contention for scarce SPAN ports .The Any-to-Any design means any of the ports can be configured as input (network) or output (monitoring) ports on the fly through an easy to use GUI or an intuitive command line interface (CLI).

Other Network Packet Broker models

VS-M8S2Q: Compact design that consumes only 1/2 half of a rack space. It features 8 SFP+ ports that support 10G/1G copper or fiber plus two 40G QSFP ports, which can support an additional four 10G fiber inputs or outputs using splitter cables. This yields 16 ports of 10G/1G with a 160 Gbps backplane.

VS-G16C4S: Using the same compact design as the VS-M8S2Q. It features load balancing, 16 10/100/1000 any-to-any ports, and four 10G capable SFP+ ports that can serve as inputs or aggregated outputs - minimizing risk of over-subscription. This yields a total of 20 ports with a 60 Gbps backplane.

Highlights

- Consolidate monitoring tools to reduce management expenses and lower tool costs
- Single point of deployment and remote management minimizes management expenses and reduces MTTR
- Monitor 10G links with 1G tools for increased ROI and more efficient use of monitoring resources
- Easily share scarce SPAN ports and test access points without maintenance windows
- Receives traffic from external taps or SPAN ports to allow you to deploy tools right away without impacting your production network, which simplifies the change control process.

Features

- Load Balancing - Session based load balancing for redundancy and distribution of data to multiple capture NICs
- 240 Gbps backplane
- No "per port licensing" - all ports fully active .
- Filtering - Line-rate hardware-based filtering can eliminate port oversubscription.
- Filter on IPv4 Src/Dst Address, MAC Address, Protocol, Port, Ethertypes i.e. MPLS, VLAN, IPv6 Src/Dst Address
- Aggregation/Regeneration - Combine multiple streams into one and/or send copies to multiple tools
- Media and Speed Conversion - supports 1G copper and fiber and 10G fiber
- Manage device remotely or locally with GUI or CLI (SSH)
- SNMP v2c, v3c
- RADIUS, TACACS+

DATACOM SYSTEMS INC

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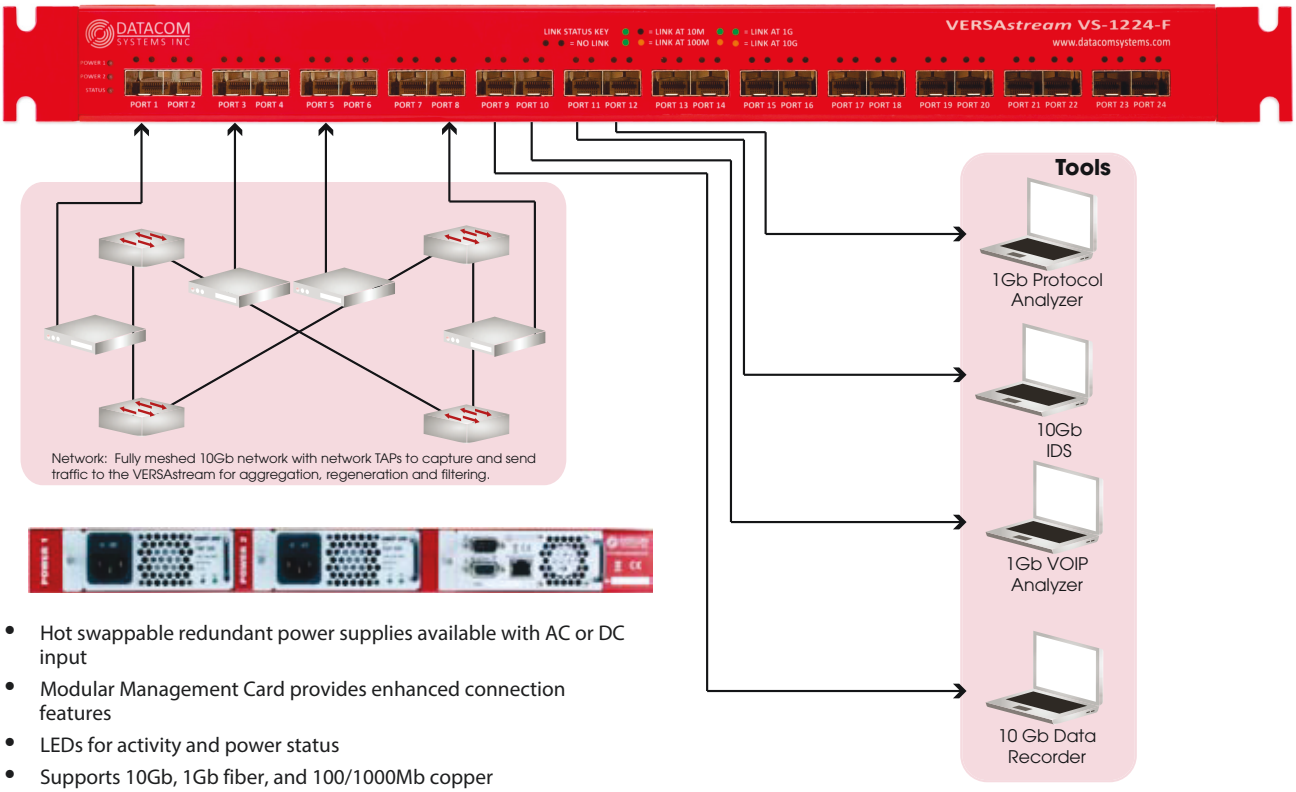

- Hot swappable redundant power supplies available with AC or DC input
- Modular Management Card provides enhanced connection features
- LEDs for activity and power status
- Supports 10Gb, 1Gb fiber, and 100/1000Mb copper

Technical Specifications

ANY TO ANY PORTS

Any-to-Any Ports: Twenty Four (24)
(Supports SFP+ SR, LR, LRM, SFP SX, LX, BT)
Management Port: RJ45
Console Port: DB9

POWER REQUIREMENTS

Dual Redundant Hot Swappable Power Supplies (Included)
Maximum Power Consumption: Less than 200 Watts Individual Power Supply Rating: 100-240V ~47-63Hz 4A MAX.

CERTIFICATIONS

CE, RoHS

DIMENSIONS (HXWXD)

1.72 x 19.00 x 21.00 in (4.37 x 48.26 x 53.34 cm)

WEIGHT

18.15 lbs (8.23 kgs)

ENVIRONMENTAL

Operating Temperature: 32º to 104ºF (0º to 40ºC)
Storage Temperature: -22º to 149ºF (-30º to 65ºC)
Humidity: 5 to 90% non-condensing

WARRANTY

One Year Hardware and Software support included.
Premium Support available

FILTERING

IPv4 Address Sources and Destinations, Subnets MAC Address Sources and Destinations
Ports
Ethertype
VLAN
IPv6 Address Sources and Destinations, Subnets

ORDER INFORMATION

Product	Description
VS-1224-F	VERSAstream 10G/1G Network Packet Broker

Optional Equipment

SFP+-SR/SX	SR Multimode 10G/1G Transceiver
SFP+-LR/LX	LR Singlemode 10G/1G Transceiver
SFP-SX	1G Multimode Fiber Transceiver
SFP- LX	1G Singlemode Fiber Transceiver
SFP-RJ45	1G Copper Transceiver

Find out more at www.datacomsystems.com

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