

Gigamon

GigaVUE | Data Access Switch



About Gigamon

Gigamon™ delivers intelligent data access solutions to enhance monitoring of service provider and enterprise data centers. The company's world-renowned GigaVUE® "orange boxes" aggregate, filter and replicate customized data streams to all monitoring tools. Gigamon pioneered technology for multi-tool environments to address new demands for reporting and analyzing organizational data. Now in its third generation with global deployments in more than 40 countries and 90 percent market share for intelligent data access, Gigamon's GigaVUE platform is the only proven, fully-integrated, total solution for all data access needs. Gigamon's patented technology enables companies to realize day one ROI by increasing tool value and operational efficiencies. GigaVUE ensures seamless and controlled delivery of the right data at the right time to the right tools. Organizations deploying Gigamon solutions achieve greater uptime, reduce threat vulnerability and improve regulatory compliance. For more information about Gigamon and its award-winning solutions, visit www.gigamon.com



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GigaVUE-420 | Data Access Switch

The GigaVUE-420® data access switch provides a cost effective solution to monitoring data centers, service provider and enterprise networks. Network Engineers who face the problems of multiple network segments to monitor, multiple tools to deploy and too few SPAN ports can now easily solve all of these issues.

- Any-to-Any connectivity to solve tool deployment problems
- Increase network visibility by utilizing aggregation
- Intelligently filter and divide loads to customize and manage data to different tools
- Replicate traffic to multiple tools to share data sources
- Manage connections and filters with Citrus™ GUI

Citrus™
GigaVUE Web GUI

The GigaVUE-420 features four 10G ports & twenty 1G ports in a 1U chassis. The system can be managed remotely by telnet or SSH2, and authenticated with TACAC+ or RADIUS. Enable hardware filters based on any pattern in the header to eliminate unwanted packets.

Network engineers can now isolate and capture sessions across parallel links and switches, reducing and customizing data flows to each tool as needed. Tools can be added without affecting the production network at any hour without configuration management review.

By stacking multiple GigaVUE-420 devices, engineers can form a high-density access fabric of over 200 ports, for extensible distribution to network monitoring tools.

The GigaVUE-420 family of products include:

- 10-GigaTAP dual fault-tolerant taps for 10G optical links
- GigaTAP dual fault-tolerant taps for 1G copper optical links
- GigaPORT copper or optical 4-port expansion modules
- GigaLINK copper or optical 10 GigE port modules

For more information on the GigaVUE-420 data access switch, including a product brief and online presentation, please visit www.gigamon.com/gigavue-420.php



GigaVUE-2404 | High Density 10G Switch

The GigaVUE-2404® provides a new way of enhancing and centralizing monitoring capabilities, and reducing network monitoring footprint while lowering total network management cost and giving ROI on day one.

- **Enable IT & Data Center consolidation - save CapEx**
- **Lower total network management cost - save OpEx**
- **Improve efficiency of monitoring tools - save CapEx**
- **Reduce network management footprint - save CapEx**
- **Eliminate change orders & cut down-time - save OpEx**

Targeted at the most demanding 10G networks, the GigaVUE-2404 extends total visibility across the entire network. Any tool can be connected to any data source at any speed or media at any time making the monitoring of your 10G network affordable and easy to manage.

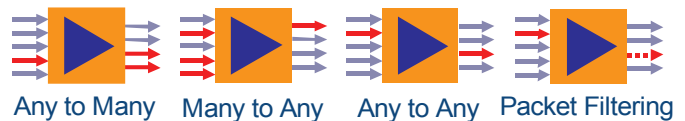
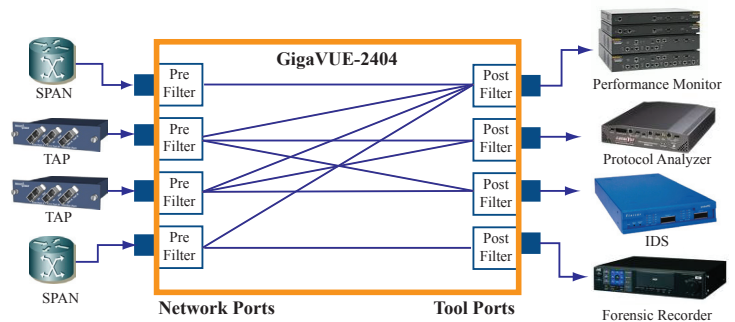
The GigaVUE-2404 evolves from the proven architecture of the industry standard GigaVUE-420 and features up to twenty-four 10 GigE ports and four 1 GigE ports in a low profile 2U chassis. Available 10 GigE TAP modules simplify access and further save on hardware cost. The GigaVUE-2404 is scalable and modular, allowing you to configure a solution with as few or as many ports as needed.

Monitoring tools used for intrusion detection, VoIP, forensic

recording and protocol analysis can be deployed immediately without impact to the production network. Traffic from the entire network can now be monitored even across parallel or mesh topologies.

GigaVUE-2404 switches are designed for compatibility with either of Gigamon's prior generation data access switches—the GigaVUE-420 or the GigaVUE-MP®.

“Managing a large scale enterprise data center demands a complex network monitoring infrastructure where 24/7 performance is mission-critical. GigaVUE meets the highest standards of network visibility, availability, compliance and security,” said Gigamon Chief Technology Officer Patrick Leong.



Gigamon | Intelligent Data Access Networking™



Monitoring 10G Networks

Monitoring your 10G network with a cost effective comprehensive solution is a challenge. Network Managers commonly are faced with data overload, dropped packets and a limited view of the network.

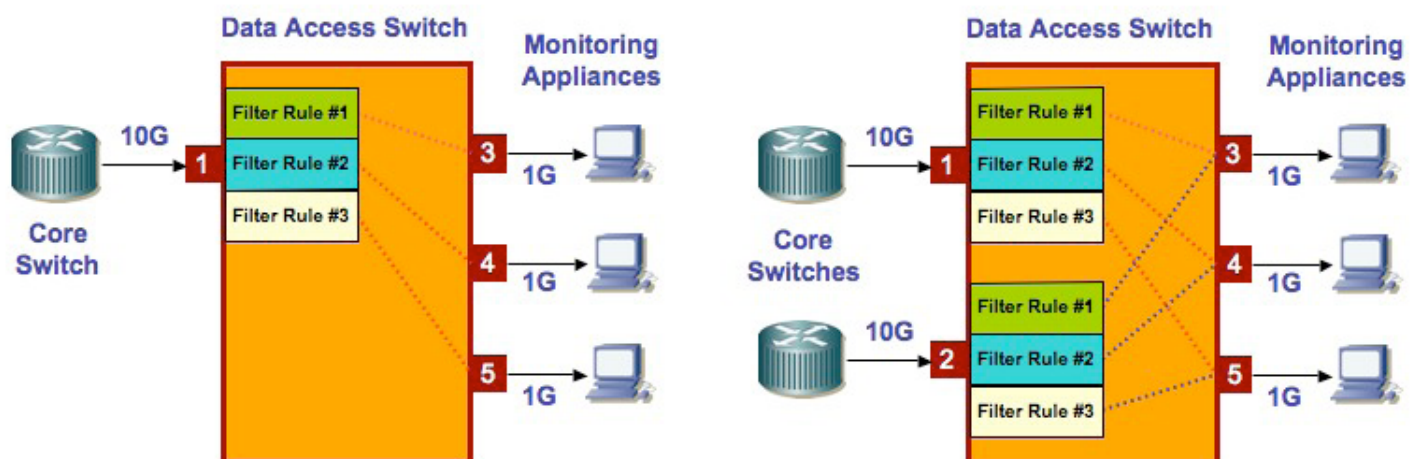
Gigamon™ has a breakthrough solution, GigaVUE-2404® high density data access switch, a uniquely powerful monitoring infrastructure solution for today's ultra-fast 10G networks.

GigaVUE® products inspect every packet and can provide total traffic visibility and fine-grained filtering at line speed, with near zero latency. By filtering packets from a 10G source users can selectively replicate packets and leverage existing 1G tools.

By providing access optimization, the GigaVUE leverages existing tool investments and overcomes their bandwidth limitations by employing load balancing and packet filtering.

Gigamon's GigaVUE can accommodate multiple bit-mask filtering rules at each ingress port (1 GigE or 10 GigE). Using multi-rule & multi-dimensional pre-filters, 10 Gigabit traffic can be mapped to multiple load-sharing 1 GigE or 10 GigE analyzers.

Each tool can analyze a specific VLAN range, port number or IP subnet thereby performing comprehensive monitoring at 10 Gigabit rate without oversubscribing any single tool.



Example of 10G to 1G Network Monitoring

- Tap multiple 10G links and aggregate flows
- Aggregate multiple 10G span ports
- Divide traffic from 10G spans across multiple 1G tools

GigaSMART

The GigaSMART™ blade enables an entirely new way to enhance monitoring tools, allowing tools to perform analysis more efficiently and accurately.

A networking industry first, GigaSMART blade significantly enhances the capabilities of Gigamon's GigaVUE-2404® platform, creating the ability to modify packets at line-rate and add valuable information through the first of its GigaSMART family of software modules: packet slicing, masking, network port labeling and time stamping.

Network monitoring tools can now perform more efficiently by eliminating unwanted content with the packet slicing module. Masking allows network security teams to hide confidential information like passwords, financial accounts, or medical data to keep companies compliant with SOX, HIPAA and PCI Regulations. Add source or timing information at the point of collection with the source port labeling and time stamping modules.

Gigamon pioneered intelligent data access networking technology for easier and lower cost deployment and management of multi-tool environments, addressing new demands for reporting and analyzing an organizations' data and enhancing the ability to view and troubleshoot increasingly complex networks. By aggregating, filtering and replicating customized data streams to all monitoring tools, GigaVUE® ensures seamless and controlled delivery of the right data at the right time to the right tools.



GigaVUE-2404 with GigaSMART blade loaded in top slot

Packet Slicing:

- Reduce packet size to increase processing and monitoring throughput
- Optimize the deployment of forensic recorder tools
- Enable more data storage in a recorder application

Masking:

- Conceal private data including financial and medical information
- Empower network monitoring tools to perform their task and maintain PCI and HIPAA compliance
- Increase network security from internal threats

Network Port Labeling:

- Add label to the packets indicating the source port
- Identify where a packet is coming from easily
- Enhance the efficiency of your network monitoring tools by eliminating the potential of duplicate data streams in a multicast environment

Time Stamping:

- Packet time stamps at line rate for subsequent analysis
- Troubleshoot and measure application response times jitter and latency

Networking Industry's First Line Rate Packet Modification Technology

Packet Slicing | Masking | Port Labeling | Time Stamping