# GigaVUE® G Series

Traffic Visibility Fabric™ Nodes

# GigaVUE-212

The GigaVUE-212 is an entry level Traffic Visibility Fabric Node that aggregates, replicates, filters and distributes traffic across multiple passive monitoring tools at a fraction of the cost of similar devices. The node supports eight 1Gb ports and two 10Gb ports with an optional expansion module supporting another four 1Gb ports.

The GigaVUE-212 is ideal for Enterprises which either require a cost-effective solution to enhance their network monitoring architecture, or where specific areas of the network require lower port counts to create a Traffic Visibility Fabric. With support for multiple out-of-band tools, the GigaVUE-212 enables Enterprises to connect any traffic flow to any tool using intelligent and powerful filtering logic.

## The GigaVUE-212 family includes:

- GigaVUE-212 base chassis with eight 1Gb and two 10Gb ports
- Expansion GigaPORT modules offering additional four 1Gb copper or fiber ports

## The GigaVUE-212 features:

- Mirror port sharing among multiple tools
- Filtering and customizable traffic flows to each tool
- Traffic load distribution across multiple tools
- Aggregation to multiple links or management, monitoring or security tools
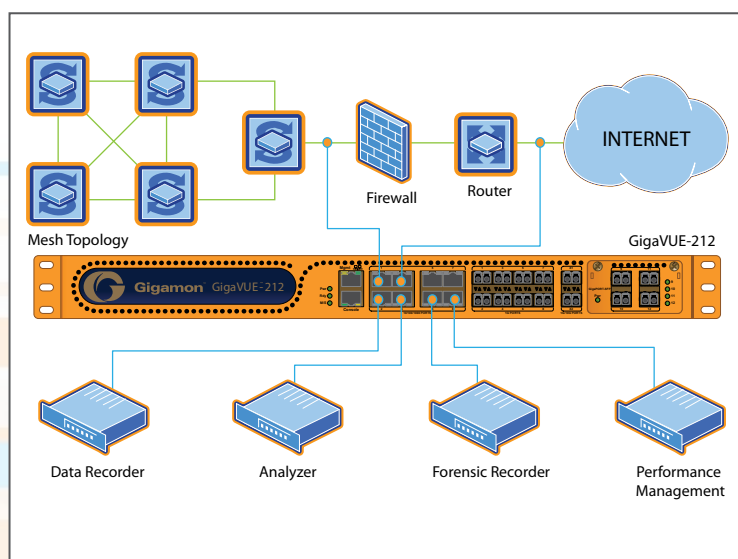
# GigaVUE-420

## A 1RU Form-factor Traffic Visibility Fabric Node that Offers Modular Flexibility



The GigaVUE-420 Traffic Visibility Fabric Node provides a cost-effective solution to monitoring Service Provider and Enterprise networks. Network engineers who are challenged to monitor multiple network links, with multiple tools to deploy and too few mirror ports, now have a solution.

### The GigaVUE-420 enables:

- "Any-to-Any" connectivity of network to monitoring/ management tools
- Increased visibility to network traffic through intelligent traffic aggregation
- Ability to filter and divide traffic enabling customized data streams to be sent to different tools
- Replication of traffic to multiple tools to allow for shared tool access to single sources
- Management of connections and filters using web-based Graphical User Interfaces (Citrus™) or text-based CLI
- Ability to effectivity and reliably monitor 10Gb network links with 1Gb tools



The GigaVUE-420 features four 10Gb ports and twenty 1Gb ports in a 1RU modular chassis. The system can be managed remotely using telnet or SSH2, and authenticated with TACACS+ or RADIUS. Network engineers and operators can now isolate and capture sessions across multiple mirror ports and TAP links, reducing and customizing traffic flows to any attached management/monitoring tool as required. Traffic flows, maps and destinations can be added, modified or removed without affecting the production network thereby avoiding the need for change control maintenance windows.

### The GigaVUE-420 family of products feature:

- 10-GigaTAP fault-tolerant tap with two 10Gb fiber links
- GigaTAP fault-tolerant tap with two 1Gb copper or fiber links
- GigaTAP bypass module for active inline appliances
- GigaPORT four 1Gb port copper or fiber module
- GigaLINK single 10Gb copper or fiber module

With the stacking capability of the GigaVUE-420 node, engineers can form a high-density Visibility Fabric of over 500 ports providing extensive and broad distribution of traffic to network monitoring, management or security tools.
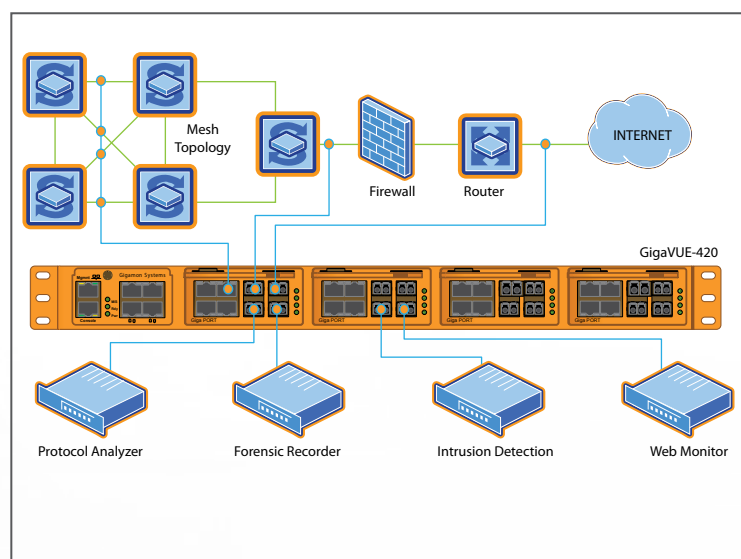
# GigaVUE-2404

## A Modular, Intelligent and Versatile Visibility Fabric in a 2RU Modular Chassis



The Visibility Fabric created by a single GigaVUE-2404 provides a new way of enhancing and centralizing monitoring capabilities by reducing the network monitoring footprint while lowering total network management cost and delivering a "day one ROI." The immediate benefits following the deployment of the GigaVUE-2404 include:

- Enables enterprise and data center infrastructure consolidation
- Lowers the total network management cost
- Reduces the footprint and complexity of network management
- Eliminates change orders, maintenance windows and operational downtime

The GigaVUE-2404 provides a platform that allows for a few tools to have total visibility across the entire network. Any management or monitoring tool can be connected to any traffic source over either copper or fiber media and the user-defined logic that maps traffic from any network port to any tool port can be dynamically changed as needed. The GigaVUE-2404 features up to twenty-four 10Gb ports and four 1Gb ports in a low profile 2RU chassis. Optional 10Gb TAP modules simplify access and further save on hardware cost.



### The GigaVUE-2404 family of products feature:

- Intelligent packet filtering at full line rate
- Aggregation of multiple traffic flows
- Replication of packets from one mirror port or TAP to many tools
- GigaStream™ load dividing technology
- GigaSMART™ packet modification technology
- Ability to monitor 10Gb networks with 1Gb tools

Monitoring and management tools used for intrusion detection, VoIP recording, forensic or protocol analysis can be deployed immediately without impact to the production network. Traffic from the entire network can now be monitored across parallel or mesh topologies.
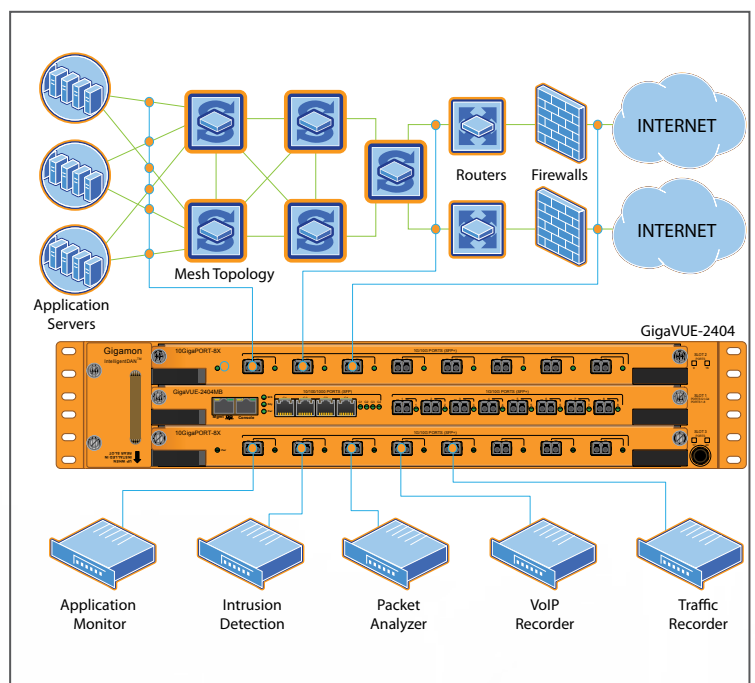
# GigaSMART

## The Industry's First Line Rate Packet Modification Technology

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

A networking industry first, GigaSMART significantly enhances the capabilities of the GigaVUE-2404 platform, creating the ability to modify packets at line rate and add valuable information by packet slicing, masking, ingress port labeling, time stamping and more.

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

Gigamon pioneered intelligent Traffic Visibility Networking technology for easier and lower cost deployment and management of multi-tool environments. The Gigamon innovative solutions address new demands for reporting and analyzing an organization's 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 traffic at the right time to the right tools.

## GigaSmart features:

### IP Tunneling:
- Encapsulate and forward packets to monitoring tools between networks on separate routed paths
- Enable routing of traffic from lights-out data centers to central monitoring facilities

### Deduplication:
- Relieve tool processing resources in asymmetrical networks by only forwarding a packet once
- Remove packet duplication caused by inter-VLAN communication or incorrect switch configuration
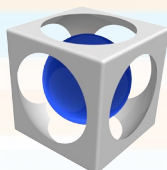
### Packet Slicing:
- Reduce packet size to increase processing and monitoring throughput
- Optimize the deployment of forensic recorder tools
- Enable more data storage in a recording appliance

### Masking:
- Conceal private traffic 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

### Ingress Port Labeling:
- Label packets to indicate the ingress port
- Easily identify where a packet source
- Enhance the efficiency of your network monitoring tools by eliminating the potential of duplicate data streams in a multicast environment

### Time Stamping:
- Time-stamp packets at line rate for subsequent analysis
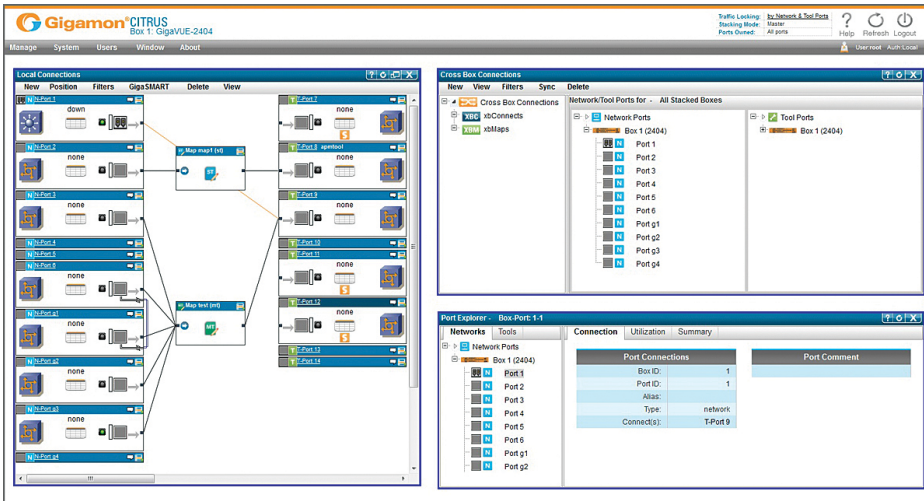- Troubleshoot and measure application response times, jitter and latency

### Header Stripping:
- Eliminate the need for monitoring tools to decipher protocols associated with MPLS labels and VLANs
- Allow easy filtering, aggregation, and load balancing of packets with headers removed

# CITRUS

## Point. Click. Configure.



Citrus™ is the latest innovation from Gigamon that provides security engineers with an intuitive Graphical User Interface (GUI) for configuring your GigaVUE hardware and filters.

Packet distribution is where the real power of GigaVUE is on display. It's where you decide how traffic arriving on network ports should be sent to tool ports. You'll decide which traffic should be forwarded, where it should be sent and how it should be handled when it arrives.

The GUI allows network engineers to configure switches or ports for maximum efficiency. Citrus also offers Command Line Interface (CLI) integration, allowing users to apply hundreds, even thousands, of filters in a matter of seconds.

The Citrus GUI brings an even higher level of power to the GigaVUE, a modular, packet-aware device. GigaVUE Traffic Visibility Fabric Nodes provide dynamic connectivity for a large number of monitoring tools such as intrusion detection systems, data recorders, VoIP analyzers and other devices.

Citrus supports TACACS+ and RADIUS servers, and supports connections between any tool and any data, at any time.

### Filter Set-Ups:
In the Connection window, each port is listed with its own entry; users can change icons, port aliases, types and filters as desired. Connections, maps, and pass-alls are easily rendered by dragging lines between network elements.

### Flow Mapping:
The Flow Mapping® window enables simple configuration of Layer 2, 3 and 4 traffic. Because maps are listed in individual containers, you can click different elements to easily change mapping or to add new rules.

### CLI Integration:
Citrus allows engineers to manage complex configurations by copying and pasting scripts into the CLI window. The embedded CLI allows predefined map rules to be easily inserted.

### About Gigamon
Gigamon provides intelligent Traffic Visibility Networking solutions for enterprises, data centers and service providers around the globe. Our technology empowers infrastructure architects, managers and operators with unmatched visibility into the traffic traversing both physical and virtual networks without affecting the performance or stability of the production environment. Through patented technologies, the Gigamon GigaVUE portfolio of high availability and high density products intelligently delivers the appropriate network traffic to security, monitoring or management systems. With over seven years experience designing and building intelligent traffic visibility products in the US, Gigamon serves the vertical market leaders of the Fortune 1000 and has an install base spanning 40 countries.

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