

Data Sheet

GigaVUE-FM

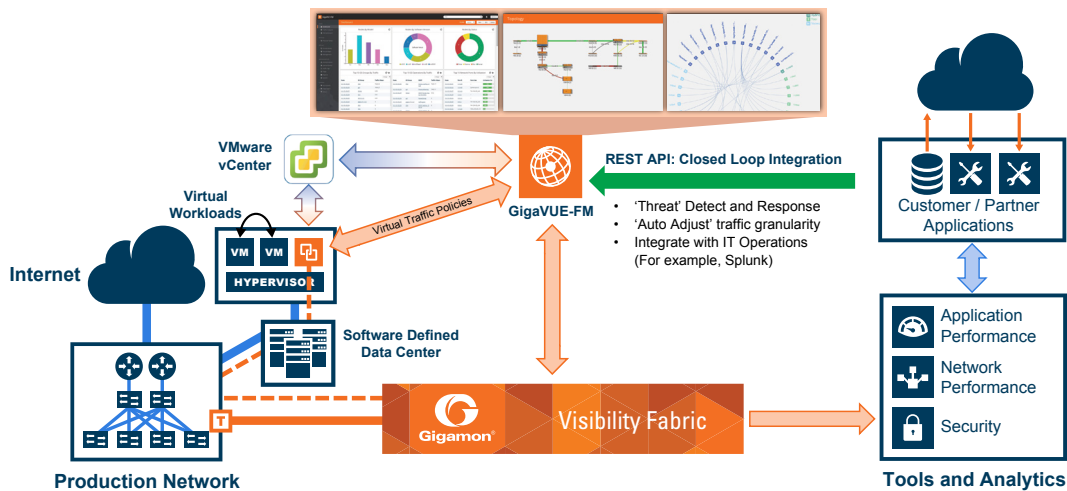


Available as a virtual or hardware appliance

Product Description

The Gigamon® Visibility Fabric™ delivers pervasive and active visibility across enterprise, data center, and service provider environments to enable security, network, and application performance analytics and management.

GigaVUE-FM delivers a single pane-of-glass view of all the physical and virtual nodes across the Visibility Fabric, while also providing an easy-to-use wizard-based approach for configuring patented Flow Mapping® and GigaSMART® traffic policies. End-to-End topology visualization, and summarized dashboards allow operators to view and pro-actively identify hot spots with quick-access capabilities to traffic overlays, node status, events, port, and traffic usage exceptions.



Gigamon Unified Visibility Fabric managed by GigaVUE-FM

A single instance of GigaVUE-FM can manage hundreds of physical and virtual Visibility Fabric nodes across multiple locations or data centers. With tiered pay-as-you-grow licensing, GigaVUE-FM also allows customers to grow their management capabilities proportional to the complexity, reach, and attach of the Gigamon Visibility Fabric to the production networks.

GigaVUE-FM is available as both a software-only virtual appliance for VMware ESX, Microsoft Hyper-V and KVM hypervisors and as a hardware appliance for deployments where customers prefer a turnkey solution for management, or when the reach and scale of the Visibility Fabric needs dedicated compute capacity for management. The GigaVUE-FM software-only option is available at no charge for single-node management and is also available as a 45-day trial for customers wishing to try multi-node management and other advanced features.

With increasing demands for agility and automation in the IT infrastructure and with ever-changing threat patterns in the network traffic, there is a critical need to automatically detect, react, and respond to these threats while also integrating visibility into IT operations management. GigaVUE-FM enables Software-Defined Visibility by supporting programmable interfaces using REST APIs to provision and orchestrate the Visibility Fabric. These APIs can be used by traffic monitoring tools (Security, NPM, APM), IT operations management, and SDN controllers to:

- Program the traffic policies, enable closed loop monitoring by responding to new threat patterns, for example, decrypt SSL, generate NetFlow, or even drop traffic in inline mode if malware is detected
- Discover and collect inventory information of the Visibility Fabric to be used for capacity planning or CMDB analysis
- Update traffic flows in the Visibility Fabric based on traffic re-direction

Table 1: Features and Benefits

GigaVUE-FM	
Features/Applications	Benefits
Centralized management and control	Provides centralized management, monitoring, and configuration of the physical and virtual traffic policies for the Visibility Fabric allowing administrators to map and direct network traffic to the tools and analytics infrastructure
End-to-end topology views with traffic policy overlays	End-to-end visualization of edge-to-core connectivity between the Visibility Fabric nodes, import and display connected production network switches, and pre-defined security and monitoring tools, overlay traffic policies from the ingress network port to the egress tool port.
Programmable APIs for Software-Defined Visibility	RESTful APIs that can be used by the traffic monitoring or IT operations management tools to <ul style="list-style-type: none"> • Program the Visibility Fabric flow maps when security threats are detected • Discover the Visibility Fabric nodes for inventory and status collection
Fabric-wide reporting	Summarize and customize dashboards for inventory, node/cluster status, events, audit trail, and Top-N/Bottom-N port/map usage with options to export and schedule html/PDF reports for offline viewing
Advanced monitoring	Pro-actively monitor and troubleshoot hot spots in your Visibility Fabric: <ul style="list-style-type: none"> • Top-N, Bottom-N Network/Tool Port and Map usage widgets in the dashboard • Identify unhealthy traffic policies based on network and port operational status • Elastic search to quickly troubleshoot hotspots (ports, traffic policies, VMs, IPs, MACs, etc.) • Audit trail of user operations for enterprise security compliancy • Real-time visualization of port and traffic metrics • Historical trend analysis (1 hour, 1 day, 1 week, 1 month) for port and traffic policies • Quick Views for easy access to Visibility Fabric details (node, port, traffic policies)
Splunk Integation – Gigamon Visibility App for Splunk	Enables integration of the Visibility Fabric inventory, health, port and traffic insight into Splunk Enterprise <ul style="list-style-type: none"> • This application, available at no charge from the Splunk App Store (splunkbase), uses Gigamon’s Software-Defined Visibility-enabled REST APIs to periodically collect information from GigaVUE-FM and display the data within the Splunk dashboards • A Security or Network Operations Center administrator can now correlate an alert with Visibility Fabric traffic metrics allowing for a quicker MTTR, all within the Splunk dashboard without having to hop across multiple applications
FabricVUE™ Traffic Analyzer	Provides fabric-centric visualization of network traffic, allowing IT administrators to use GigaVUE-FM as a first-level dashboard to identify Top-N conversations, applications, end points, and protocols. Uses NetFlow/IPFIX records from GigaVUE® fabric nodes to collect and analyze network traffic: <ul style="list-style-type: none"> • In order to filter it out of the monitoring appliances • To identify any hot spots on new traffic that needs to be forwarded to the monitoring appliances
Scheduling capabilities	<ul style="list-style-type: none"> • Schedule firmware version updates to one or many fabric nodes to streamline software rollouts in an automated fashion • Schedule configuration backups of the fabric nodes which allows customers to restore a good baseline if inadvertent changes are applied
Backup and restore capabilities	<ul style="list-style-type: none"> • Backup and restore across multiple visibility nodes to quickly back-out changes if required due to errors or change control requirements • Backup and restore of GigaVUE-FM configuration DB which allows for GigaVUE-FM appliance replacement or restore to a well-known configuration

The following describes the minimum requirements for the hardware on which the GigaVUE-FM virtual appliance is deployed.

Table 2: Hypervisor Requirements for Software Edition

Requirement	Description
Hypervisor	<ul style="list-style-type: none"> VMware vSphere 5.0 and above Microsoft Hyper-V (Windows Server 2008 R2 SP1 and later, 2012 R2 and later) KVM Hypervisor
CPU	<ul style="list-style-type: none"> One or more 64-bit x86 CPUs with virtualization assist (Intel-VT or AMD-V) enabled
RAM	<ul style="list-style-type: none"> At least 8Gb
Disk Space	<ul style="list-style-type: none"> Shared or locally attached storage
Network	<ul style="list-style-type: none"> At least one 1Gbps NIC

The following table lists the virtual computing resources that the hypervisor must provide for each GigaVUE-FM instance. Note that additional computing resources may be required for increased scale and feature add-ons. Please refer to user guide and release notes for more details.

Table 3: Virtual Computing Requirements for GigaVUE-FM Software Edition

Requirement	Description
Memory	<ul style="list-style-type: none"> Minimum 4Gb memory (at least 16Gb, if using FabricVUE Traffic Analyzer)
Virtual CPU (VCPU)	<ul style="list-style-type: none"> One (1) (at least 4 vCPU, if using FabricVUE Traffic Analyzer)
Virtual storage for OS	<ul style="list-style-type: none"> 60Gb using Virtual IDE (100Gb+ if using FabricVUE Traffic Analyzer)
Virtual network interfaces	<ul style="list-style-type: none"> 1 vNIC

Table 4: Computing Requirements and Supported limits for FabricVUE Traffic Analyzer

	Virtual Appliance			Hardware Appliance		
	4 vCPU	8 vCPU	12 vCPU	12 vCPU (Dual 6 Core)		
CPU	4 vCPU	8 vCPU	12 vCPU	12 vCPU (Dual 6 Core)		
RAM	16Gb	32Gb	64Gb	16Gb	32Gb	64Gb
Flows per Second (FPS)	4K	8K	15K	5K	10K	20K

GigaVUE-FM Hardware Appliance Product Specifications

Table 5: Specifications

Feature	Description
Rack Mounting	<ul style="list-style-type: none"> • 1 Rack Unit (1RU) • Tool-less mounting in 4-post racks with square or unthreaded round holes • Tooled mounting in 4-post threaded hole racks • Cable management arm
Dimensions	<ul style="list-style-type: none"> • Height: 1.68in (42.8mm) • Width: 18.99in (482.4mm) • Depth: 23.9in (607mm)
Weight	<ul style="list-style-type: none"> • 19.9kg (43.87lb)
Operating System	<ul style="list-style-type: none"> • GigaVUE-FM OS (Gigamon appliance hardened Linux)
Processor	<ul style="list-style-type: none"> • Dual Intel Xeon E5-2603 v3 1.6GHz, 15M Cache, 6C/6T
Memory	<ul style="list-style-type: none"> • 16GB RAM (expandable up to 384GB RAM)
Storage	<ul style="list-style-type: none"> • OS: 2 x 120GB SSD SATA Boot MLC 6Gb 2.5in Hot-plug Drive (RAID1) • Data: 2 x 1TB 7.2K RPM Self-Encrypting NLSAS 6Gb 2.5in Hot-plug Hard Drive, FIPS140-2 (RAID1)
Systems Management	<ul style="list-style-type: none"> • IPMI 2.0 compliant • iDRAC8 Enterprise with dedicated 10/100/1000 BaseT network connection
Appliance Management	<ul style="list-style-type: none"> • 10/100/1000 BaseT LAN • Serial Console (115,200 baud)
Power Supply	<ul style="list-style-type: none"> • Dual, Hot-plug, Redundant Power Supply (1+1) • 550W (Platinum) AC (100–240V, 50/60Hz, 7.4A-3.7A)
Heat Dissipation	<ul style="list-style-type: none"> • 2107BTU/hr
Temperature	<ul style="list-style-type: none"> • Operating: 10° to 35° C (50° to 95° F) • Storage: -40° to 65° C (-40° to 149° F)
Maximum Altitude	<ul style="list-style-type: none"> • Operating: 3048m (10,000 feet) • Storage: 12,000m (39,370 feet)
Connectors	<ul style="list-style-type: none"> • Back <ul style="list-style-type: none"> – Four 10/100/1000Mbps LOM – One 10/100/1000Mbps iDRAC8 Enterprise – One DB9 Serial – One USB 3.0, One USB 2.0 – One DB15 VGA • Front <ul style="list-style-type: none"> – Two USB 2.0 (Disabled in BIOS) – One DB15 VGA

Table 6: Compliance

Type	Description
Safety	IEC 60950-1 IT Equipment; EN 60950-1 IT Equipment
Emissions	FCC Part 15, Class A; EN55022/CISPR-22 Class A; CISPR 24; GOST Russia; CE Mark EN 5502 Class A; Industry Canada ICES-003 Class A; EN 55024; KCC Korea, CCC China
Environmental	RoHS Directive 2011/65/EU; WEE; Global ENERGY STAR 2.0; Nordic NEMKO; REACH Directive; CECP China

Please contact Gigamon for the full compliance list.

Support and Services

Gigamon offers a range of support and maintenance services. For details regarding Gigamon's Limited Warranty and its Product Support and Software Maintenance Programs, visit www.gigamon.com/support-and-services/overview-and-benefits

Ordering Information

Table 7: GigaVUE-FM

Part Number	Description
GFM-FM001	GigaVUE-FM free edition that manages 1 Physical Visibility Fabric Node
GFM-FM005	GigaVUE-FM 5-Pack Software Edition, supports up to 5 GigaVUE Physical Nodes
GFM-FM010	GigaVUE-FM 10-Pack Software Edition, supports up to 10 GigaVUE Physical Nodes
GFM-FM000	GigaVUE-FM Prime Software Edition, supports up to 200 GigaVUE Physical Nodes, includes Feature Add-Ons
GFM-UPG-510	GigaVUE-FM Upgrade from 5-Pack to the 10-Pack Software Edition
GFM-UPG-5P	GigaVUE-FM Upgrade from 5-Pack to the Prime Software Edition
GFM-HW0-FM010	GigaVUE-FM Hardware Appliance, manages up to 10 Physical Visibility Fabric Nodes
GFM-UPG-10P	GigaVUE-FM Upgrade from 10-Pack to the Prime Edition (Software and Hardware Appliance)
GFM-FM-FTA	GigaVUE-FM Feature Add-On for FabricVUE Traffic Analyzer

For More Information

For more information about the Gigamon Unified Visibility Fabric or to contact your local representative, please visit:

www.gigamon.com