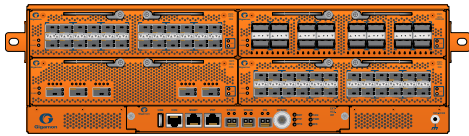


# Data Sheet

## GigaVUE-HC3



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**72%** of Enterprise NetOps and SecOps teams have not scaled their network infrastructure to meet the needs of increased data volume

**78%** cite they have no consistent way of accessing network data nor understanding it

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### Key Benefits

#### Network Operations

- ✓ Deliver up to 800Gbps of processing power for optional GigaSMART® technologies, per appliance
- ✓ Forward complex traffic decisions at wire-speed performance
- ✓ Scale platform with 100Gb connectivity, modular design, and 32-node clusters

#### Security Operations

- ✓ Consolidate and simplify security infrastructure
- ✓ Enhance network security with GigaSECURE traffic intelligence applications
- ✓ Provide session and security awareness with metadata generation on line rate 100Gb connectivity
- ✓ Decrypt SSL traffic and send to both inline and out-of-band tools for further analysis

### Traffic Intelligence at Scale for the Most Demanding Networks

Enterprises are seeing higher volumes of data traveling at faster speeds through their network, leading to more complexity, greater costs and ultimately more vulnerability to security threats.

The GigaVUE-HC3 visibility node enables comprehensive traffic and security intelligence at scale to enhance your security and monitoring solutions.

Offering up to 25Tbps of traffic intelligence across 32 clustered nodes, the GigaVUE-HC3 enables greater network traffic visibility into data in motion, minimizes traffic overloads and provides more effective options for deploying both inline and out-of-band security and monitoring tools.

The GigaVUE-HC3 visibility node provides security intelligence in 10, 25, 40 and 100Gb networks. With mix-and-match capabilities, this modular appliance enables organizations to deploy and expand the Gigamon Platform as their IT infrastructure grows.

### Use Cases

#### Application And Service Monitoring

- Eliminate contention for network data
- Centralize Netflow/IPFIX Generation
- Filter streaming media and custom Layer 7 applications

#### Leverage Legacy Investments

- Take advantage of legacy tools with mismatched throughput connectivity
- Get network visibility during network upgrades

#### Security Posture Optimization

- Active security remediation with inline bypass
- Identify malware activity through metadata
- Expose potential hidden threats by decrypting SSL/TLS traffic

## Key Features

### Modular Chassis

- Customize port capacity, speed mix and GigaSMART processing power to the needs of your network.
- Reduce cost and reserve space for future expandability.

### Field-replaceable control card

- Upgrade features and capabilities without replacing the chassis or even removing it from the rack.

### Traffic Intelligence with GigaSMART

- Leverage 800Gbps of traffic intelligence processing per appliance.
- Enhance visibility into encrypted sessions.
- Optimize traffic sent to tools.

### Clustering

- Extend Gigamon Platform to 32 nodes, thousands of ports, and over 200Tb of traffic.
- End-to-end Flow Mapping® with single management and orchestration pane.
- End-to-end Flow Mapping. across clusters to scale network visibility across hundreds of nodes with Fabric Maps.
- Utilize optional GigaSMART applications and services from anywhere in the cluster.

### Management and Orchestration through GigaVUE-FM

- Single pane of glass view of platform
- Customizable dashboards reduce time to identify and resolve issues
- Configuration wizards accelerate deployment and troubleshooting
- Scheduled upgrades and backups decrease maintenance windows

### Tool Capacity Planning with GigaVUE-FM Tool View

- Making sure the tool is optimally utilized
- Enable users to select the best tool to route network traffic based on resource availability
- Track the tool's storage capacity and data wrap-around time

### Inline Bypass Protection

- Safely deploy inline tools by monitoring their health and bypassing them in case of failure.
- Scale inline deployments by distributing traffic across multiple tools and/or bypassing specific traffic.
- Solve the security blind spot in asymmetric routing by implementing resilient network architectures.
- Send specific traffic to tools optimized for that traffic.
- Migrate out-of-band tools to inline mode and replicate traffic to out-of-band tools.
- Protect network uptime and physical bypass protection for 100Gb SR4, 40Gb SR4 and 10Gb SR links.

### Inline and Out of Band SSL Decryption

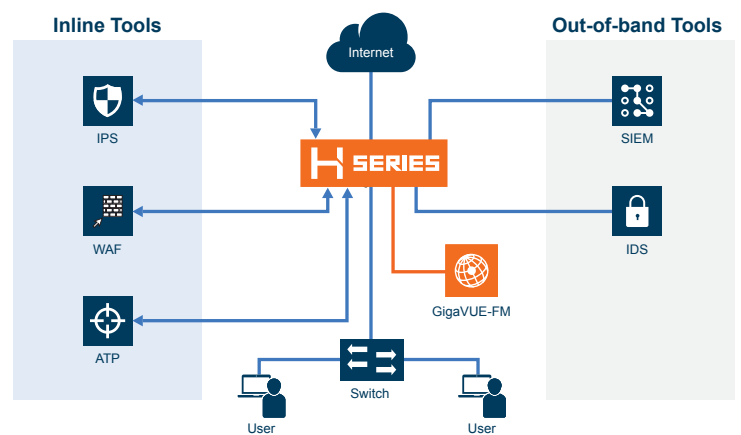
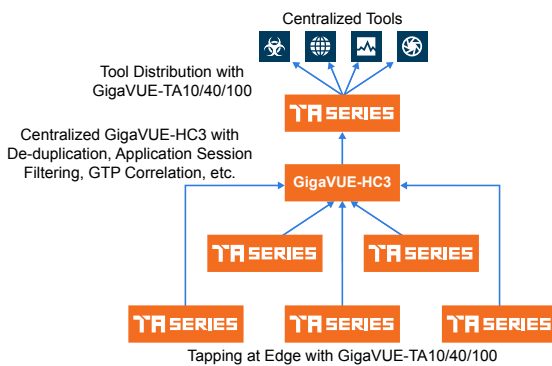
- Improve efficiency of security tools by offloading processor-intensive SSL decryption
- Architecture allows for decryption/re-encryption of traffic once for inspection by multiple tools
- Supports Thales HSM for the storage and management of SSL keys for Out of Band SSL only

### REST API Support

- Programmatic access to the platform via REST APIs exposed from the Fabric Manager, GigaVUE-FM.
- Allow implementation of Software-Defined Visibility paradigm by system administrators.
- Integrate with tools, controllers and other IT systems to enable rapid programmatic response to events.

## Deployment Options

### Centralized Deployment of the GigaVUE-HC3 for Pervasive Visibility



### Leaf-spine Deployment of the GigaVUE-HC3

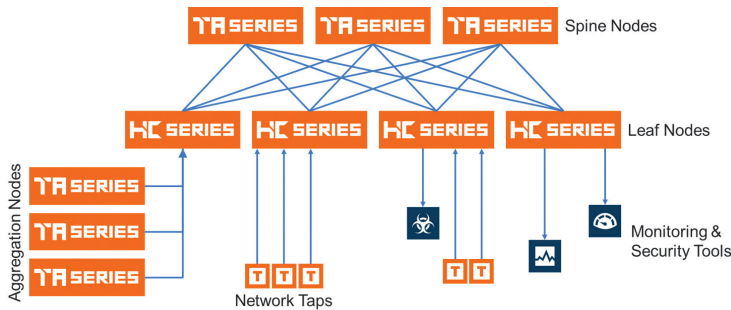
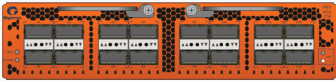


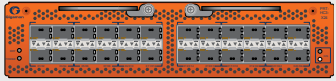



Table 1: GigaVUE-HC3 Modules

Product	Description
<b>PRT-HC3-C16</b> 	<ul style="list-style-type: none"> <li>16 x 100Gb/40Gb (QSFP28/QSFP+) ports</li> <li>Port Modes: 1 x 100Gb/40Gb, 4 x 25Gb<sup>1,2</sup>, or 4 x 10Gb<sup>1</sup></li> </ul>
<b>PRT-HC3-C08Q08</b> 	<ul style="list-style-type: none"> <li>8 x 100Gb QSFP28 ports</li> <li>Port Modes: 1 x 100Gb, 2 x 40Gb, 4 x 25Gb<sup>1,2</sup>, or 4 x 10Gb<sup>1</sup></li> </ul>
<b>SMT-HC3-C05</b> 	<ul style="list-style-type: none"> <li>2 GigaSMART engines with 100Gbps processing power per engine</li> <li>5 x 100Gb QSFP ports</li> <li>Port Modes: 1 x 100Gb, 1 x 40Gb, 4 x 25Gb<sup>1,2</sup>, or 4 x 10Gb<sup>1</sup></li> </ul>
<b>PRT-HC3-X24</b> 	<ul style="list-style-type: none"> <li>24 x 25Gb<sup>2</sup>/10Gb (SFP28/SFP+) ports</li> </ul>
<b>BPS-HC3-C25F2G</b> 	<ul style="list-style-type: none"> <li>100Gb/40Gb/25Gb/10Gb Bypass combo module</li> <li>2 pairs of 100Gb/40Gb SR4 BPS; up to 8 pairs of 10Gb SR BPS</li> <li>16 x 25Gb<sup>2</sup>/10Gb (SFP28/SFP+) ports</li> </ul>

<sup>1</sup>Requires MPO-to-4xLC breakout cable or the PNL-M341 or PNL-M343 modules for G-TAP M Series

<sup>2</sup>25Gb requires Control Card Version 2 (CTL-HC3-002)

## Product Specifications

**Table 2: Physical Dimensions & Weight**

Product	Height	Width	Depth	Weight
<b>GigaVUE-HC3*</b>	5.25in (3RU) (13.34cm)	19.0in (48.26cm)	29.1in (74.0cm) without cable management 33.5in (85.0cm) with cable management	88.0lbs (40.00kg)
<b>PRT-HC3-C16</b>	1.9in (4.7cm)	8.5in (21.7cm)	16.1 in (41.0cm)	6.0lbs (2.72kg)
<b>PRT-HC3-C08Q08</b>	1.9in (4.7cm)	8.5in (21.7cm)	16.1in (41.0cm)	2.40lbs (1.09kg)
<b>SMT-HC3-C05</b>	1.9in (4.7cm)	8.5in (21.7cm)	16.1in (41.0cm)	4.40lbs (2.00kg)
<b>PRT-HC3-X24</b>	1.9in (4.7cm)	8.5in (21.7cm)	16.1in (41.0cm)	2.12lbs (0.96kg)
<b>BPS-HC3-C25F2G</b>	1.9in (4.7cm)	8.5in (21.7cm)	16.1in (41.0cm)	6.40lbs (2.90kg)

\*Including power supplies and fans, but no port modules

**Table 3: Power Specifications**

Type	GigaVUE-HC3
<b>Power configuration</b>	<ul style="list-style-type: none"> <li>• 1 + 1 Power: 2 Power Supply Modules</li> <li>• 2 + 2 Power: 4 Power Supply Modules</li> </ul>
<b>Total Power Consumption/ Heat Output</b>	<ul style="list-style-type: none"> <li>• 1850W/6312.4BTU/hr (Control Card version 1)</li> <li>• 2000W/6824.3BTU/hr (Control Card version 2)</li> <li>• Fully populated system with all ports at 100% traffic load</li> <li>• Load shared across all power supply modules</li> </ul>
<b>AC power supplies</b>	• Min/Max Voltage: (x4) 90V to 264V AC, 1778W Max, 47-63Hz
<b>DC power supplies</b>	• Min/Max Voltage: (x4) -40V to -72V DC, 1778W Max

**Table 4: Environmental Specifications**

Type	GigaVUE -HC3
<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
<b>Operating relative humidity</b>	20% to 80%, non-condensing
<b>Recommended storage temperature</b>	-4°F to 158°F (-20°C to 70°C)
<b>Recommended storage relative humidity</b>	15% to 85%, non-condensing
<b>Altitude</b>	Up to 15,000 ft (4.57km)

**Table 5: Standards & Protocols**

Type	GigaVUE-HC3
<b>Standards and protocols</b>	IEEE 802.3-2012, IEEE 802.1Q VLAN, IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-X, IEEE 802.3ae 10000BASE-X, IEEE 802.3ba, RFC 783 TFTP, RFC 791 IP, RFC 793 TCP, RFC 826 ARP, RFC 854 Telnet, RFC 768 UDP, RFC 792 ICMP, SNMP v1/v2c & v3, RFC 2131 DHCP client, RFC 1492 TACACS+, and support for IPv4 and IPv6

Table 6: Compliance

Type	GigaVUE-HC3
<b>Safety</b>	UL 60950-1, 2nd Edition; CAN/CSA C22.2 No. 60950-1-07, 2nd Edition; EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013; IEC 60950-1:2005 (2nd Edition) + Am 1:2009 + Am 2:2013
<b>Emissions</b>	FCC Part 15, Class A; VCCI Class A; EN55022/CISPR-22 Class A; Australia/New Zealand AS/NZS CISPR-22 Class A; EU:CE Mark EN 55022 Class A; CCC China; BSMI Taiwan; KCC Korea; EAC Russia
<b>Immunity</b>	ETSI EN300 386 V1.6.1:2012; EN61000-3-2; EN61000-3-3; EN61000-4-2; EN61000-4-3; EN61000-4-4; EN61000-4-5; EN61000-4-6; EN61000-4-8; EN61000-4-11
<b>Environmental</b>	2002/95/EC (RoHS); 2006/1907/EC (REACH); ISTA 2A
<b>Security</b>	FIPS 140-2
<b>NEBS</b>	Level 1 (Control Card version 1)

## 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](http://www.gigamon.com/support-and-services/overview-and-benefits)

Table 7: Ordering Information

Part Number	Description
<b>Base Hardware</b>	
<b>GVS-HC301</b>	GigaVUE-HC3 base unit w/ chassis, Control Card, 5 Fan Modules, CLI, 2 power supplies, AC power
<b>GVS-HC302</b>	GigaVUE-HC3 base unit w/ chassis, Control Card, 5 Fan Modules, CLI, 2 power supplies, DC power
<b>GVS-HC3A1</b>	GigaVUE-HC3 base unit w/ chassis, Control Card v2, 5 Fan Modules, CLI, 2 power supplies, AC power
<b>GVS-HC3A2</b>	GigaVUE-HC3 base unit w/ chassis, Control Card v2, 5 Fan Modules, CLI, 2 power supplies, DC power
<b>CTL-HC3-002</b>	Control Card Version 2, GigaVUE-HC3, each
<b>PRT-HC3-C16</b>	Port Module, GigaVUE-HC3, 16x100G QSFP28 cages
<b>PRT-HC3-C08Q08</b>	Port Module, GigaVUE-HC3, 8x100G QSFP28 cages and 8x40G QSFP+ cages
<b>SMT-HC3-C05</b>	GigaSMART, GigaVUE-HC3, 5x100G QSFP28 cages (includes Slicing, Masking, Source Port & GigaVUE Tunneling De-Encapsulation SW)
<b>PRT-HC3-X24</b>	Port Module, GigaVUE-HC3, 24x10G
<b>BPS-HC3-C25F2G</b>	Bypass Combo Module, GigaVUE-HC3, 2 100Gb SR4 BPS pairs, 16 10G cages
<b>Licenses</b>	
<b>SMT-HC3-DD1</b>	GigaSMART, GigaVUE-HC3, De-Duplication Feature License per GigaSMART module
<b>SMT-HC3-HS1</b>	GigaSMART, GigaVUE-HC3, Header Stripping Feature License per GigaSMART module
<b>SMT-HC3-AT1</b>	GigaSMART, GigaVUE-HC3, Advanced Tunneling Feature License per GigaSMART module
<b>SMT-HC3-FVU</b>	GigaSMART, GigaVUE-HC3, FlowVUE Feature License per GigaSMART module
<b>SMT-HC3-APF</b>	GigaSMART, GigaVUE-HC3, Adaptive Packet Filtering Feature License per GigaSMART module
<b>SMT-HC3-ASF</b>	GigaSMART, GigaVUE-HC3, Application Session Filtering Feature License per GigaSMART module; requires SMT-HC3-APF
<b>SMT-HC3-NF1</b>	GigaSMART, GigaVUE-HC3, NetFlow Generation Feature License per GigaSMART module
<b>SMT-HC3-SSL</b>	GigaSMART, GigaVUE-HC3, SSL Decryption for Out of Band Tools Feature License per GigaSMART module
<b>SMT-HC3-INSSL</b>	GigaSMART, GigaVUE-HC3, Inline SSL and Passive SSL Decryption feature license per GigaSMART module
<b>SMT-HC3-GTPMAX</b>	GigaSMART, GigaVUE-HC3, GTP Filtering & Correlation Feature License per GigaSMART module, Maximum subscribers
<b>Power Supplies</b>	
<b>PWR-HC301</b>	Power Supply Module, GigaVUE-HC3, AC (each)
<b>PWR-HC302</b>	Power Supply Module, GigaVUE-HC3, DC (each)

Table 7: Ordering Information continued

Part Number	Description
<b>Parts</b>	
<b>Q28-502</b>	100Gb QSFP28, Multimode SR4
<b>Q28-503</b>	100Gb QSFP28, Singlemode LR4
<b>QSF-502</b>	40Gb QSFP+, Multimode SR4
<b>QSF-503</b>	40Gb QSFP+, Singlemode LR4
<b>QSF-506</b>	40 Gig QSFP+ Parallel Singlemode LR for 4x10G Breakout, 1310 nm
<b>Q28-513</b>	100 Gig QSFP28, Singlemode CWDM4
<b>QSB-501</b>	40Gb QSFP+ BiDi, Multimode SR, RX-only
<b>QSB-502</b>	40Gb QSFP+ BiDi, Multimode SR, Full Duplex
<b>SFP-532</b>	10Gb SFP+, Multimode 850nm SR
<b>SFP-533</b>	10Gb SFP+, Singlemode 1310nm LR
<b>Cabling</b>	
<b>CBL-205</b>	SFP+ to SFP+ Direct Attach Copper cable, 5 meters
<b>CBL-310</b>	SFP+ Active Fiber Cable, 10 meters
<b>CBL-405</b>	Active Fiber cable, 5 meters (QSFP approved)
<b>CBL-410</b>	Active Fiber cable, 10 meters (QSFP approved)
<b>CBL-450</b>	Active Fiber cable, 50 meters (QSFP approved)
<b>Management</b>	
<b>GFM-HW0-FM010</b>	GigaVUE-FM Hardware Appliance, manages up to 10 Physical Visibility Fabric Nodes
<b>GFM-FM001</b>	GigaVUE-FM, manage 1 Physical Visibility Fabric Node
<b>GFM-FM005</b>	GigaVUE-FM, manage up to 5 Physical Visibility Fabric Nodes
<b>GFM-FM010</b>	GigaVUE-FM, manage up to 10 Physical Visibility Fabric Nodes
<b>GFM-FM000</b>	GigaVUE-FM Prime Edition, manage up to 200 Physical Visibility Fabric Nodes, includes FabricVUE Traffic Analyzer (GFM-FM-FTA) and VMware NSX Manager Integration (GFM-VM-NSX) add-ons

## For More Information

For more information about the Gigamon Platform or to contact your local representative, please visit: [www.gigamon.com](http://www.gigamon.com)