

Product Description

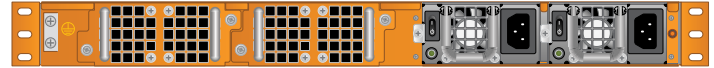
Built upon the success and functionality of the GigaVUE® H Series, the GigaVUE-HB1 Visibility Fabric™ node represents the first fixed-configuration node within the series. At just 1RU, this small form-factor fabric node can extend traffic visibility to more remote portions of the network running critical applications that require monitoring.

The GigaVUE-HB1 fabric node easily handles traffic with up to four (4) 10Gb ports and sixteen (16) 1Gb ports available for any combination of monitoring and tool ports. Although designed as an entry-level solution, the GigaVUE-HB1 fabric node includes GigaSMART® intelligence. Optional GigaSMART functions from de-duplication to tunneling create a robust distributed monitoring solution anywhere space is at a premium. Combining the power of the Gigamon Visibility Fabric™ architecture and the flexibility of the GigaSMART packet processing engine, vital traffic and packet flows can be replicated onsite at remote locations, filtered, sliced and tunneled back to a centralized monitoring location.

The GigaVUE-HB1 fabric node is ideal for deployments at distributed processing centers and regional cell sites, electrical power grids, or oil and gas refineries. The GigaVUE-HB1 fabric node is suitable for situations where critical server processing is taking place in isolated wiring closets or in Managed Service Provider deployments where Visibility as a Service is required. Since the GigaVUE-HB1 fabric node operates on the same code base, it can be clustered together with other GigaVUE H series nodes for a powerful Visibility Fabric architecture.



GigaVUE-HB1 FRONT



GigaVUE-HB1 BACK

Table 1: Features & Benefits

Features	Benefits
Powerful Flow Mapping® to Manage Traffic	<p>Leveraging purpose-built hardware, the Flow Mapping technology enables complex traffic-forwarding decision making executed at wire speed.</p> <ul style="list-style-type: none"> • Apply different maps to allow each tool to only see the traffic of interest • Selectively map traffic from 10Gb network ports to lower speed 1Gb tools to better leverage existing tools • Distribute traffic from single higher speed ports to multiple tool ports with GigaStream™ technology • Multicast a single traffic source to multiple tool ports enabling a range of tools to access the same traffic • Detailed filtering down to the bit pattern using user-defined attributes (UDA) • Apply different maps on tool ports to allow each tool to see the relevant traffic
GigaSMART Packet Modification (optional)	<p>The GigaVUE-HB1 fabric node incorporates GigaSMART hardware built into the device. Optional GigaSMART packet modification features include: masking, packet slicing, source port labeling, tunneling, de-duplication, header stripping and VLAN tag insertion. This is ideal for remote monitoring locations where packets need to be masked, sliced, or de-duplicated prior to being tunneled back to a centralized monitoring facility.</p>
Supports 1Gb and 10Gb connections in a small footprint	<p>At just 1RU, GigaVUE-HB1 fabric node supports:</p> <ul style="list-style-type: none"> • Up to 4 high-density 10Gb SFP+ connections • Up to 16 x 1Gb connections using a combination of 8 RJ45 connections and 8 SFPs • Tight locations where space is at a premium, using only 1RU of height in a standard rack • A flexible range of SFP and SFP+ transceivers including direct attach copper and active fiber cables, SR, LR, ER, and LRM
Powerful Manageability	<p>GigaVUE-HB1 fabric node provides versatile management options and capabilities including an integrated command-line interface (CLI), an integrated graphical user interface (GUI) for 'drag and drop' configuration, fully compliant support for SNMPv3 and integrated email (SMTP) alerting capability.</p>
Robust Design	<p>Hot-swappable power supplies and fan trays allow for flexibility and investment protection. Optional, secondary power supply with load-balancing capabilities are available for both AC and DC.</p>

Product Specifications

Table 2: Product Information

Type	Specification
Mounting	Mounts in an EIA-standard 19 inch or 24 inch telco rack or equipment cabinet. Front and rear mounting brackets are included.
Standard Ports	<ul style="list-style-type: none"> Provides up to 4 x 10Gb SFP+ connections and up to 16 x 1Gb connections using a combination of 8 RJ45 connections and 8 SFPs
Clustering	<ul style="list-style-type: none"> Up to 4 GigaVUE H series fabric nodes Can operate in master, slave or normal mode
GigaSMART Applications (Optional)	<ul style="list-style-type: none"> Packet slicing, masking, and source port labeling De-duplication Header stripping, VLAN tag insertion Tunneling

Table 3: Weight & Dimensions

Product	Height	Width	Depth	Weight
GigaVUE-HB1	1.74in (4.42cm) (1RU)	17.32in (44cm) Without mounting brackets	18.11in (46cm)	20lbs (Installed) (9.07kg)

Table 4: Power Supplies & Electrical Characteristics

Type	Specification
Standard	One AC (100 to 240V) or DC (-48V DC) power supply module included
Optional	Secondary AC or DC module may be field installed to provide 1+1 redundant, load sharing, hot-swappable power (AC and DC may not be combined within a node)
Voltage	AC power modules: 100 to 240V AC. Fuse rating: 6A DC power modules: -36 to -72V DC. Inputs reverse polarity protected For DC source: optional external fuse rating: 10 Amps Slow-Blow
Current (nominal)	1.45A @ 110V AC / 3.33A @ -48V DC
Current (surge)	5A @ 110V AC
Frequency	50/60Hz for AC
Heat/Power Dissipation	Fully populated 20 port system with all ports at 100% traffic load: nominally 162W, 553 BTU/hr

Table 5: Optional Equipment

Equipment Type	Description
Secondary Power Supply AC	Provides redundant, load sharing, hot-swappable AC Power
Secondary Power Supply DC	Provides redundant, load sharing, hot-swappable DC Power
Transceivers and cables	A flexible range of SFP+ and SFP transceivers including direct attach copper cables, SR, LR, ER, and LRM. Only Gigamon transceivers are supported. See ordering information.

Table 6: Environmental Specifications

Type	Specification
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Relative Humidity	20% to 80%, non-condensing
Recommended Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Recommended Storage Relative Humidity	15% to 85%, non-condensing
Altitude	Up to 15,000ft (4.6km)

Table 7: Standards & Protocols

Type	Specification
Standards and Protocols	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, RFC 783 TFTP, RFC 791 IP, RFC 793 TCP, RFC 826 ARP, RFC 854 Telnet, RFC 768 UDP, RFC 792 ICMP, SNMP v1/v2c, RFC 2131 DHCP client, RFC 1492 TACACS+, and support for IPv4 and IPv6.

Table 8: Regulatory Compliance & Safety

Type	Specification
Safety	UL 60950-1; CSA C22.2 EN 60950-1; IEC-60950-1
RoHS Compliance	RoHS 6, EU directive 2002/95/EC
Emissions	FCC Part 15, Class A; VCCI Class A; EN55022/CISPR-22 Class A; Australia/New Zealand AS/NZS CISPR-22 Class A; CE Mark EN 55022 Class A
Immunity	ETSI EN300 386 V1,32, EN61000-4-2, EN 61000-4-3, 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-3-2

Table 9: Warranty and Support

Part Number	Description
Hardware	Gigamon 5-Year Hardware Limited Warranty included with purchase
Software	1-Year Software Limited Warranty included with purchase
Support	1-Year Standard Support included with purchase

Gigamon offers a range of premium support and extended services. For details regarding warranty and support, visit:

<http://www.gigamon.com/gigamon-technical-support>

Ordering Information

Table 10: Ordering Information

Part Number	Description
GVS-HB101-0416	GigaVUE-HB1-0416 node, HB Series, 4 x 10Gb cages, 8 x 1Gb cages, 8 x 1Gb copper, Fans, Single AC Power
GVS-HB102-0416	GigaVUE-HB1-0416 node, HB Series, 4 x 10Gb cages, 8 x 1Gb cages, 8 x 1Gb copper, Fans, Single DC Power
SVC-2AC	110/240V AC power supply module, HB1, 420, 212, or G-SECURE chassis
SVC-2DC	-48V DC power supply module, HB1, 420, 212, or G-SECURE chassis
SMT-HB1-BSE	GigaSMART, HB Series combo, includes Slice, Masking, & Source Port features license
SMT-HB1-DD1	GigaSMART, HB Series, De-Duplication feature license
SMT-HB1-HS1	GigaSMART, HB Series, Header Stripping feature license
SMT-HB1-TUN	GigaSMART, HB Series, Tunneling feature license
SFP-501	1Gb SFP, Copper, UTP with RJ45 interface
SFP-502	1Gb SFP, Multimode 850nm
SFP-503	1Gb SFP, Singlemode 1310nm
SFP-504	1Gb SFP, Singlemode 1550nm (Special Order)
SFP-532	10Gb SFP+, Multimode 850nm SR
SFP-533	10Gb SFP+, Singlemode 1310nm LR
SFP-534	10Gb SFP+, Singlemode 1550nm ER (Special Order)
SFP-535	10Gb SFP+, Multimode 1310nm LRM (Special Order)
CBL-205	SFP+ to SFP+ direct attached copper cable, 5m
CBL-310	SFP+ Active Fiber Cable, 10m
SVC-000	12 months Standard support and software maintenance
SVC-001	1st Year Premium 24x7 upgrade
SVC-002	12 months Premium 24x7 support and software maintenance

For More Information

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

www.gigamon.com