

Product Description

The Gigamon Visibility Fabric™ architecture provides intelligent control over the traffic extracted from production networks for delivery to the wide spectrum of monitoring, management, analysis, and security systems.

The GigaVUE-TA1 traffic aggregation node is designed for networks that have a multitude of low-utilization 1Gb and 10Gb links requiring traffic to be pre-aggregated into the Visibility Fabric architecture. The GigaVUE-TA1 node aggregates many ports of data together prior to feeding the aggregated traffic into either a GigaVUE G or H Series product where sophisticated Flow Mapping® filters create a powerful Visibility Fabric architecture.



Many 1Gb and 10Gb links running in Enterprise networks are averaging only 2-5% utilization. With the GigaVUE-TA1 node, multiple 10Gb links can be aggregated into a single 1Gb or 10Gb link if the utilization is low, or a 40Gb link for segments with higher utilization. The low profile 1RU design is intended to be deployed at the top of rack or end of row in data centers.

The system ships standard with 24 x 10Gb SFP+ ports activated, and can optionally be upgraded by enabling a further 24 ports of 10Gb and 4 QSFP+ ports of 40Gb. The system has hot-swappable, dual fan trays, and ships with a single power supply. A second power supply can be added to provide redundant power capability. Both AC and DC power supplies are available.

Table 1: Features & Benefits

Features	Benefits
Traffic Filtering	Designed for pre-aggregation, the GigaVUE-TA1 delivers traffic to other GigaVUE nodes. As such, only basic filters are provided in this device. From the GigaVUE-TA1, traffic flows to other nodes where advanced filtering and Flow Mapping® can be applied. Up to 100 network port filters and up to 10 gateway filters are available.
Remote Management	Configure the GigaVUE-TA1 traffic aggregation node operations from a command-line interface: <ul style="list-style-type: none"> • Local access over the serial Console port • Remote network access using Telnet or SSH2 over the 10/100/1000 Ethernet Management port on the Control Card • Secure access to the CLI, either through local authentication or optional RADIUS/TACACS+/ LDAP support • Powerful and flexible logging, including event notification via syslog, email, and SNMP traps
Share SPAN Ports	Connect a SPAN port to a network port on the GigaVUE-TA1 aggregation node and multicast that traffic to multiple different gateway ports, giving multiple GigaVUE G and H series fabric nodes access to the same data. Apply different filters to individual gateway ports to ensure that each fabric node sees the data that best suits its capabilities.
Aggregate Links	Send the data from multiple different network ports to one or more gateway ports, allowing the combination of traffic from multiple access points into a single stream for analysis.
Command-Line Interface (CLI)	The GigaVUE-TA1 traffic aggregation node features a common CLI with other GigaVUE H series fabric nodes, offering a similar style to the familiar Cisco interface, minimizing relearning for IT professionals.
Command Abbreviation	Type only as many letters of a command as are needed to positively differentiate from other available commands.
H-VUE Graphical User Interface (GUI)	The GigaVUE-TA1 traffic aggregation node uses a subset of H-VUE, a web-based GUI for the award-winning GigaVUE H series family of fabric nodes. The H-VUE GUI provides an intuitive, drag-and-drop interface for the GigaVUE-TA1 aggregation node.
SNMP Support	Rely on secure SNMP v3 access to the onboard SNMP agent as well as v1/v2 SNMP traps.
Email Notifications	Use email alerts for proactive notification of a wide variety of GigaVUE-TA1 events, helping to keep tabs on system status in real time.
Scalable Port Density	License the ports you need. Enable either 24 x 10Gb ports or expand to 48 x 10Gb ports and 4 x 40Gb ports. The GigaVUE-TA1 traffic aggregation node makes it easy to leverage the system's 10Gb port density, aggregating multiple underused 1Gb/10Gb network ports to 10Gb/40Gb gateway ports for uplink to the Gigamon Visibility Fabric architecture.

Table 1: Features & Benefits (continued)

Features	Benefits
Flexible 10Gb/1Gb Support	All 10Gb ports in GigaVUE-TA1 traffic aggregation node can be used with 1Gb media by inserting a copper or optical SX/LX/ZX SFP instead of an SFP+. Interoperability and support are ensured by purchasing SFP transceivers from Gigamon—transceivers purchased from other vendors are not supported. All ports can be used for either network or gateway connections.
Flexible 40Gb Network and Gateway Connections	Optional 40Gb links integrate with other GigaVUE Series line cards to send aggregated traffic across 40Gb links. This is designed to minimize packet loss when aggregating multiple 10Gb links together. In addition, each 40Gb link can be broken into 4 ports of 10Gb using an optical patch panel (optional), providing up to 64 10Gb links in a single RU.

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 mounting ears are included.
Standard Ports	48 X 10Gb SFP+ Cages plus 4 x 40Gb QSFP+ cages
Clustering	None, available for aggregation only

Table 3: Physical Dimensions & Weight

Product	Height	Width	Depth	Weight
GigaVUE-TA1 with mounting brackets	1.74in (1RU)	19in (48.26cm)	18.11in (46cm)	29.6lbs (13.43kg)

By default, the GigaVUE TA1 aggregation node is powered by a single AC or DC power supply. You can add a second power supply for load-balancing and redundancy. The table below summarizes the electrical characteristics for the GigaVUE-TA1 traffic aggregation node.

Table 4: Power Requirements

Power Supply Type	GigaVUE-TA1
Heat/Power Dissipation	For a fully populated system with all ports at 100% traffic load: nominally 220 Watts; 751 BTU/hr
Heat Output	1808 BTU/hr
AC Power Supply	100-240V AC, 15-6A, 50-60Hz
DC Power Supply	-48 V DC, 10A slow-blow, 10A @ -48 V DC

Table 5: Environmental Specifications

Specification	GigaVUE-TA1
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 6: Standards & Protocols

Specification	GigaVUE-TA1
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 7: Compliance & Safety

Specification	GigaVUE-TA1
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 EN 300 386 V1.3.2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-3-2

Table 8: Warranty & Support

Warranty	Description
Hardware	Gigamon 5-Year Hardware 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 9 : Ordering Information

Part Number	Description
GVS-TA101	GigaVUE-TA1 traffic aggregator, 24 x 10Gb ports enabled, 1 power supply, AC power
GVS-TA102	GigaVUE-TA1 traffic aggregator, 24 x 10Gb ports enabled, 1 power supply, DC power
RMB-045	Optional Rear Mounting Bracket 45cm for GigaVUE-TA1 or GigaVUE-HB1
UPG-TA100	Upgrade option to enable all GigaVUE-TA1 ports (48 x 10Gb + 4 x 40Gb)
PNL-OMMAO	Patch Panel, Optical, 4xMPO to 16xLC-Duplex Multimode
SFP-501	1Gb SFP, Copper, UTP with RJ-45 interface
SFP-502	1Gb SFP, Multimode 850nm
SFP-503	1Gb SFP, Singlemode 1310nm
SFP-504	1Gb SFP, Singlemode 1550nm
SFP-532	10Gb SFP+, Multimode 850nm SR
SFP-533	10Gb SFP+, Singlemode 1310nm LR
SFP-534	10Gb SFP+, Singlemode 1550nm ER
SFP-535	10Gb SFP+, Multimode 1310nm LRM
QSF-502	40Gb QSFP+, Multimode SR4
CBL-205	SFP+ to SFP+ direct attached copper cable, 5 meters
CBL-310	SFP+ Active Fiber Cable, 10 meters
CBL-405	Active Fiber cable, 5 meters (QSFP+ approved)
CBL-410	Active Fiber cable, 10 meters (QSFP+ approved)
CBL-450	Active Fiber cable, 50 meters (QSFP+ approved)
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