

Data Sheet

GigaVUE TA Series

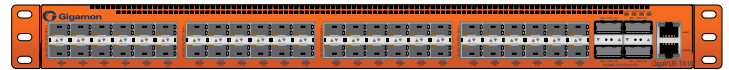
Edge Traffic Aggregation Nodes

Effective network monitoring and security begins with a properly constructed Visibility Fabric™ at the edge. The edge typically includes traffic running at 1Gb or 10Gb, but can also include 40Gb and 100Gb. These links individually may be running at very low utilizations (<5%), making it difficult to justify direct connections for every link. The GigaVUE TA Series edge nodes aggregate multiple low-utilization 1Gb, 10Gb, 40Gb, or 100Gb links, and feeds the combined traffic to GigaVUE H Series products. Sophisticated Flow Mapping® and egress filters on the GigaVUE TA Series optimizes the traffic flow to ensure that only the traffic of interest is forwarded. The GigaVUE H Series node can apply further Flow Mapping and traffic intelligence via GigaSMART® to the aggregated traffic. Optional clustering allows full end-to-end traffic mapping and seamless integration with the GigaVUE H Series and GigaSMART. GigaVUE-FM provides centralized management and control and programmable APIs for Software-Defined Visibility.

Data centers deploying a leaf and spine architecture face many visibility challenges. East-west traffic between hosts can bypass traditional security tools, allowing malware to propagate across the infrastructure. SPAN ports on the leaf/spine switches provide only limited access to this traffic. By tapping all the links and aggregating using the GigaVUE TA Series, data centers can secure their infrastructure at the server edge.

Features and Benefits

- High-density visibility for 1Gb, 10Gb, 40Gb and 100Gb in a 1RU form factor
 - GigaVUE-TA10: 48 x 1Gb/10Gb + 4 x 40Gb
 - GigaVUE-TA40: 32 x 40Gb
 - GigaVUE-TA100: 32 x 100Gb
 - 4 x 10Gb breakout option for 40Gb ports
- Support for multiple optic and media types, including Cisco 40Gb BiDi
- Front to back cooling, hot swappable fan, and options for redundant power supplies
- Clustering with GigaVUE H Series nodes enables use of GigaSMART features anywhere in the cluster
- Centralized configuration and management with GigaVUE-FM Fabric Manager



GigaVUE-TA10 (front)



GigaVUE-TA40 (front)



GigaVUE-TA100 (front)

Use Cases

- Aggregation of multiple SPAN/TAP traffic feeds into higher-speed uplinks
- Extending reach and density of Visibility Fabric across the data center
- Visibility into leaf/spine architectures for security and performance monitoring
- Top of rack deployment, consolidating traffic to GigaVUE H Series node at end of row
- Data center upgrades moving to Cisco BiDi infrastructures

Table 1: Features and Benefits

Features/Applications	Benefits
Compact form factor	<ul style="list-style-type: none"> Reduced footprint to save space, power, and cooling
Powerful Flow Mapping® to manage traffic	<p>The GigaVUE TA Series leverages Flow Mapping technology to enable complex traffic-forwarding to maximize the efficiency of aggregation</p> <ul style="list-style-type: none"> Selectively aggregate traffic from 1Gb, 10Gb, 40Gb and 100Gb network ports based on MAC, VLAN, IPv4/IPv6, TCP/UDP map rules Customized filtering using user-defined attributes (UDA) Distribute traffic from one or more higher-speed ports to multiple gateway ports with GigaStream™ technology
Clustering capabilities (software option)	GigaVUE TA Series nodes can be licensed to cluster as a subservient device with other GigaVUE H Series nodes. This provides direct cross-box configurations and maps to utilize the capabilities of other nodes within the cluster. In cluster mode, only stack and network ports are enabled.
1Gb, 10Gb, and 40Gb network and gateway connectivity	Depending on the model, the GigaVUE TA Series supports a wide variety of Gigamon® transceivers. Transceivers purchased from other vendors are not supported. All ports can be used for either network or gateway connections when in a standalone configuration.
Managed by GigaVUE-FM Fabric Manager	Adding optional industry-leading fabric manager software provides a single pane-of-glass view for the entire visibility structure.
REST API Support	<ul style="list-style-type: none"> Programmatic access to capabilities in the Visibility Fabric via REST APIs exposed from the Fabric Manager, GigaVUE-FM Allows implementation of Software-Defined Visibility paradigm by system administrators Advanced integration with tools, controllers and other IT systems used in the infrastructure to enable rapid programmatic response to events detected
Remote Management	<ul style="list-style-type: none"> Command Line Interface (CLI) and Graphical User Interface (GUI) available GigaVUE-FM Fabric Manager Local access over the serial Console port Remote network access using Telnet or SSH over the 10/100/1000 Ethernet Management port 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

Table 2: Flow Mapping and Filtering

Product	Standalone Mode	Clustered Mode
Map Rules	250	2000
Egress Filters	20	100

Product Specifications

Table 3: Physical Dimensions & Weight

Product	Height	Width	Depth ¹	Weight ²
GigaVUE-TA10	1.74in (1RU)	19in (48.26cm)	19.25in (48.9cm)	18.65lbs (8.46kg)
GigaVUE-TA40	1.74in (1RU)	19in (48.26cm)	19.25in (48.9cm)	19.75lbs (8.96kg)
GigaVUE-TA100	1.74in (1RU)	19in (48.26cm)	18.12in (46.0cm) 19.24in (48.9cm)	22.99lbs (10.43kg)

Values include the removable ear brackets.

¹Metal-to-metal and including latches

²AC Version

Table 4: Power Consumption

Product	AC Power	DC Power
GigaVUE-TA10	220W, 751 BTU/hr	
GigaVUE-TA40	260W, 886.6 BTU/hr	280W, 954.8 BTU/hr
GigaVUE-TA100	540W, 1841.4 BTU/hr	550W, 1892.7 BTU/hr

Power Options:

- AC Power Supply: 100-240V AC, 15-6A, 50-60Hz
- DC Power Supply: -48V DC, 10A slow-blow, 10A @ -48V DC

Each GigaVUE TA Series node come standard with dual, load sharing power supplies.

Table 5: Environmental Specifications

Type	GigaVUE-TA10/TA40/TA100
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 and Protocols

Type	Specification
Standards and protocols	IEEE 802.3-2012, VLAN, Q-in-Q, IPv4, IPv6, TCP, UDP
Management	10/100/1000M Management and RJ-45 serial console IPv4, IPv6, DHCP, ICMP, SNMP v1/v2/v3, Syslog, Telnet, SSH2, TACACS+, Radius, LDAP

Table 7: Compliance

Type	GigaVUE-TA10 and GigaVUE-TA40	GigaVUE-TA100
Safety	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	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, BSMI, CCC, EAC
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, KCC Class A	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, KCC Class A, BSMI, CCC, EAC
Immunity	EN61000-4-2; EN61000-4-3; EN61000-4-4; EN61000-4-5; EN61000-4-6; EN61000-4-8; EN61000-4-11; 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; EN61000-3-2; EN61000-3-3
Environmental	EU RoHS 2011/65/EU	EU RoHS 2011/65/EU
Security	FIPS 140-2, Common Criteria for GigaVUE-TA10 and GigaVUE-TA40	FIPS 140-2

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 8: Ordering Information

Part Number	Description
GVS-TAX01	GigaVUE-TA10 edge node, 4 40G cages + 48 10G cages, 2 power supply, 2 fan trays, AC power
GVS-TAX02	GigaVUE-TA10 edge node, 4 40G cages + 48 10G cages, 2 power supply, 2 fan trays, DC power
GVS-TAX01A	GigaVUE-TA10 edge node, 24 10G ports enabled, 2 power supplies, 2 Fan trays, AC power
GVS-TAX02A	GigaVUE-TA10 edge node, 24 10G ports enabled, 2 power supplies, 2 Fan trays, DC power
GVS-TAQ01	GigaVUE-TA40 edge node, 32 40G cages, 2 power supply, 3 fan trays, AC power
GVS-TAQ02	GigaVUE-TA40 edge node, 32 40G cages, 2 power supply, 3 fan trays, DC power
GVS-TAC01	GigaVUE-TA100 edge node, 32 100G cages, 2 power supplies, 3 fan trays, AC power; 16 ports enabled
GVS-TAC02	GigaVUE-TA100 edge node, 32 100G cages, 2 power supplies, 3 fan trays, DC power; 16 ports enabled
UPG-TAX00	Upgrade option for GVS-TAX01A/TAX02A to enable all GigaVUE-TA10 ports (48 10G and 4 40G)
UPG-TAC24	Upgrade option to enable 24 GigaVUE-TA100 ports (24 100G)
UPG-TAC32	Upgrade option to enable 32 GigaVUE-TA100 ports (32 100G); requires UPG-TAC24
CLS-TA100	Clustering, GigaVUE-TA1/10, Feature license per node
CLS-TAQ00	Clustering, GigaVUE-TA40, feature license per node
CLS-TAC00	Clustering, GigaVUE-TA100, Feature license per node
PWR-TA001	Power Supply Module, GigaVUE-TA10 or TA40, AC, each
PWR-TA002	Power Supply Module, GigaVUE-TA10 or TA40, DC, each
PWR-TAXQ1	Power Supply Module, GigaVUE-TA10 or TA40, AC
PWR-TAXQ2	Power Supply Module, GigaVUE-TA10 or TA40, DC
FAN-TAXQ0	GigaVUE-TA10 or TA40 Fan Assembly, each (2 required on TA10, 3 on TA40)
SFP-501	1 Gig SFP, Copper, UTP with RJ45 interface
SFP-502	1 Gig SFP, Multimode 850
SFP-503	1 Gig SFP, Singlemode 1310
SFP-504	1 Gig SFP, Singlemode 1550 (Special Order)
SFP-532	10 Gig SFP+, Multimode 850nm SR
SFP-533	10 Gig SFP+, Singlemode 1310nm LR
SFP-534	10 Gig SFP+, Singlemode 1550nm ER (Special Order)
SFP-535	10 Gig SFP+, Multimode 1310nm LRM (Special Order)
QSF-502	40 Gig QSFP+, Multimode SR4
QSF-503	40 Gig QSFP+, Singlemode LR4
QSB-501	40 Gig QSFP+ BiDi, Multimode SR RX-only
Q28-502	100 Gig QSFP28, Multimode SR4
CBL-205	SFP+ to SFP+ Direct Attach 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)

For More Information

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