

# Data Sheet

## GigaVUE TA Series

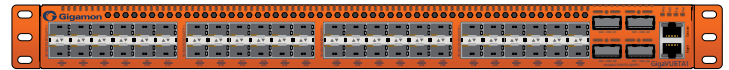
### Edge Traffic Aggregation Nodes

Effective network monitoring and security begins with a properly constructed Visibility Fabric™ at the edge. The edge typically includes traffic running at 1Gb, 10Gb, or 40Gb. 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, or 40Gb 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, and 40Gb in a 1RU form factor
  - GigaVUE-TA1/TA10: 48 x 1Gb/10Gb + 4 x 40Gb
  - GigaVUE-TA40: 32 x 40Gb
  - 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 H Series nodes enables use of GigaSMART features anywhere in the cluster
- Centralized configuration and management with GigaVUE-FM Fabric Manager



*GigaVUE-TA1 (front)*



*GigaVUE-TA10 (front)*



*GigaVUE-TA40 (front)*

### Use Cases

- Aggregation of multiple SPAN/TAP traffic feeds into 10Gb/40Gb 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
<b>Compact form factor</b>	<ul style="list-style-type: none"> <li>Reduced footprint to save space, power, and cooling</li> </ul>
<b>Powerful Flow Mapping® to manage traffic</b>	<p>The GigaVUE-TA1 leverages Flow Mapping technology to enable complex traffic-forwarding to maximize the efficiency of aggregation</p> <ul style="list-style-type: none"> <li>Selectively aggregate traffic from 1Gb, 10Gb and 40Gb network ports based on MAC, VLAN, IPv4/IPv6, TCP/UDP map rules</li> <li>Customized filtering using user-defined attributes (UDA)</li> <li>Distribute traffic from one or more higher-speed ports to multiple gateway ports with GigaStream™ technology</li> </ul>
<b>Clustering capabilities (software option)</b>	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.
<b>1Gb, 10Gb, and 40Gb network and gateway connectivity</b>	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.
<b>Managed by GigaVUE-FM Fabric Manager</b>	Adding optional industry-leading fabric manager software provides a single pane-of-glass view for the entire visibility structure.
<b>REST API Support</b>	<ul style="list-style-type: none"> <li>Programmatic access to capabilities in the Visibility Fabric via REST APIs exposed from the Fabric Manager, GigaVUE-FM</li> <li>Allows implementation of Software-Defined Visibility paradigm by system administrators</li> <li>Advanced integration with tools, controllers and other IT systems used in the infrastructure to enable rapid programmatic response to events detected</li> </ul>
<b>Remote Management</b>	<ul style="list-style-type: none"> <li>Command Line Interface (CLI) and Graphical User Interface (GUI) available</li> <li>GigaVUE-FM Fabric Manager</li> <li>Local access over the serial Console port</li> <li>Remote network access using Telnet or SSH2 over the 10/100/1000 Ethernet Management port</li> <li>Secure access to the CLI, either through local authentication or optional RADIUS/TACACS+/LDAP support</li> <li>Powerful and flexible logging, including event notification via syslog, email, and SNMP traps</li> </ul>

Table 2: Flow Mapping and Filtering

Product	Standalone Mode	Clustered Mode
<b>Map Rules</b>	250	2000
<b>Egress Filters</b>	20	100

## Product Specifications

Table 3: Physical Dimensions &amp; Weight

Product	Height	Width	Depth	Weight
<b>GigaVUE-TA1</b>	1.74in (1RU)	19in (48.26cm)	18.1in (46.0cm)	20.0lbs (9.10kg)
<b>GigaVUE-TA10</b>	1.74in (1RU)	19in (48.26cm)	18.1in (46.0cm)	19.9lbs (9.04kg)
<b>GigaVUE-TA40</b>	1.74in (1RU)	19in (48.26cm)	18.1in (46.0cm)	20.9lbs (9.47kg)

Values include the removable ear brackets.

Table 4: Power Consumption

Product	AC Power	DC Power
GigaVUE-TA1	220W, 751 BTU/hr	
GigaVUE-TA10	220W, 751 BTU/hr	
GigaVUE-TA40	260W, 886.6 BTU/hr	280W, 954.8 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 supports dual, load sharing power supplies. The GigaVUE-TA1 comes standard with a single power supply; GigaVUE-TA10 and GigaVUE-TA40 come standard with dual power supplies.

Table 5: Environmental Specifications

Type	GigaVUE TA Series
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 TA Series
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
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	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
Security	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](http://www.gigamon.com/support-and-services/overview-and-benefits)

## Ordering Information

**Table 8: Ordering Information**

Part Number	Description
<b>GVS-TA101</b>	GigaVUE-TA1 traffic aggregator, 24 10G ports enabled, 1 power supply, AC power
<b>GVS-TA102</b>	GigaVUE-TA1 traffic aggregator, 24 10G ports enabled, 1 power supply, DC power
<b>GVS-TAX01</b>	GigaVUE-TA10 edge node, 4 40G cages + 48 10G cages, 2 power supply, 2 fan trays, AC power
<b>GVS-TAX02</b>	GigaVUE-TA10 edge node, 4 40G cages + 48 10G cages, 2 power supply, 2 fan trays, DC power
<b>GVS-TAQ01</b>	GigaVUE-TA40 edge node, 32 40G cages, 2 power supply, 3 fan trays, AC power
<b>GVS-TAQ02</b>	GigaVUE-TA40 edge node, 32 40G cages, 2 power supply, 3 fan trays, DC power
<b>UPG-TA100</b>	Upgrade option to enable all GigaVUE-TA1 ports (48 10G + 4 40G)
<b>CLS-TA100</b>	Clustering, GigaVUE-TA1/10, Feature license per node
<b>CLS-TAQ00</b>	Clustering, GigaVUE-TA40, feature license per node
<b>PWR-TA101</b>	Power Supply Module, GigaVUE-TA1, AC
<b>PWR-TA102</b>	Power Supply Module, GigaVUE-TA1, DC
<b>PWR-TA001</b>	Power Supply Module, GigaVUE-TA10 or TA40, AC, each
<b>PWR-TA002</b>	Power Supply Module, GigaVUE-TA10 or TA40, AC, each
<b>FAN-TA100</b>	GigaVUE-TA1 Fan Assembly, each (2 required)
<b>FAN-TA000</b>	GigaVUE-TA10 or TA40 fan assembly, each (2 required for TA10, 3 on TA40)
<b>PNL-OMMAO</b>	Patch Panel, Optical, 4xMPO to 16xLC-Duplex MultiMode (for use with GigaVUE-TA1)
<b>SFP-501</b>	1 Gig SFP, Copper, UTP with RJ45 interface
<b>SFP-502</b>	1 Gig SFP, Multimode 850
<b>SFP-503</b>	1 Gig SFP, Singlemode 1310
<b>SFP-504</b>	1 Gig SFP, Singlemode 1550 (Special Order)
<b>SFP-532</b>	10 Gig SFP+, Multimode 850nm SR
<b>SFP-533</b>	10 Gig SFP+, Singlemode 1310nm LR
<b>SFP-534</b>	10 Gig SFP+, Singlemode 1550nm ER (Special Order)
<b>SFP-535</b>	10 Gig SFP+, Multimode 1310nm LRM (Special Order)
<b>QSF-502</b>	40 Gig QSFP+, Multimode SR4
<b>QSF-503</b>	40 Gig QSFP+, Singlemode LR4
<b>QSB-501</b>	40 Gig QSFP+ BiDi, Multimode SR RX-only
<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)

## For More Information

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