

GigaVUE TA Series



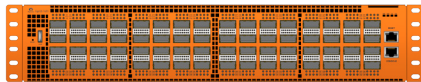
GigaVUE-TA10 (front)



GigaVUE-TA40 (front)



GigaVUE-TA100 (front)



GigaVUE-TA200 (front)

Key Benefits

- Reduced footprint to save space, power and cooling
- Advanced integration with tools, controllers and other IT systems used in the infrastructure to enable rapid programmatic response to events detected
- Selectively aggregate traffic from 1Gb, 10Gb, 25Gb, 40Gb and 100Gb network ports based on MAC, VLAN, IPv4/IPv6 and TCP/UDP map rules
- Customized filtering using user-defined attributes (UDA)

Edge Traffic Aggregation Nodes

The GigaVUE® TA Series edge nodes aggregate multiple low-utilization 1Gb, 10Gb, 25Gb, 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 data visibility challenges. East-west traffic between hosts can bypass traditional security tools, allowing malware to propagate across the infrastructure. SPAN ports on the leaf and 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, 25Gb, 40Gb and 100Gb in a 1RU form factor:
 - GigaVUE-TA10: 48 x 1Gb/10Gb + 4 x 40Gb
 - » Up to 16 additional 10Gb breakout ports
 - GigaVUE-TA40: 32 x 40Gb
 - » Up to 16 10Gb breakout ports
 - GigaVUE-TA100: 32 x 40Gb/100Gb
 - » Up to 128 10Gb breakout ports
 - GigaVUE-TA100 CXP: 20 x 100Gb CXP (support SR10) + 8 x 100Gb QSFP28
 - GigaVUE-TA200: 64 x 40Gb/100Gb
 - » Up to 128 10Gb/25Gb breakout ports
- Support for multiple optic and media types, including Cisco BiDi
- Front-to-back cooling, hot swappable fan and options for redundant power supplies
- Flow Mapping across clusters to scale visibility to hundreds of nodes using Fabric Maps
- Centralized configuration and management with GigaVUE-FM Fabric Manager
- Reduced capital expenditure and network traffic visibility into cloud and remote sites, with L2GRE & VXLAN tunnel decapsulation included on all TA platforms except on TA1 and TA10

Use Cases

- Aggregation of multiple SPAN and TAP traffic feeds into higher speed uplinks
- Extending reach and density of Visibility Platform across the data center
- Visibility into leaf and 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	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, 25Gb, 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.
1Gb, 10Gb, 40Gb and 100Gb 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.
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 Platform 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: Features that Require Advanced Features License

Features/Applications
Clustering on the TA Series
Fabric Maps
Increased filter rules (map rules)
L2GRE & VXLAN tunnel decapsulation included on all TA platforms except on TA1 and TA10

Tables 3a and 3b: Flow Mapping and Filtering

Map Rules	Standalone	Advanced Features License
GigaVUE-TA10	256	Up to 2K
GigaVUE-TA40	256	Up to 4K
GigaVUE-TA100	256	Up to 24K
GigaVUE-TA200	256	Up to 24K

Egress Filter	Standalone	Advanced Features License
GigaVUE-TA10	20	100
GigaVUE-TA40	20	100
GigaVUE-TA100	20	Up to 400
GigaVUE-TA200	20	Up to 400

Product Specifications

Table 4: Physical Dimensions and Weight

Product	Height	Width ¹	Depth ²	Weight ³
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)
GigaVUE-TA100 CXP	1.74in (1RU)	19in (48.26cm)	18.12in (46.0cm) 19.24in (48.9cm)	24.89lbs (11.29kg)
GigaVUE-TA200	3.48in (2RU)	19in (48.26cm)	19.68in (50cm)	33.6lb (15.24kg)

¹Values include the removable ear brackets²Metal-to-metal and including latches³AC Version

Table 5: 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 and GigaVUE-TA100 CXP	540W, 1841.4 BTU/hr	550W, 1892.7 BTU/hr
GigaVUE-TA200	1065W, 3631.65 BTU/hr	1069W, 3645.29 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 comes standard with dual load-sharing power supplies.

Table 6: Environmental Specifications

Type	GigaVUE-TA10/TA40	GigaVUE-TA100/TA100 CXP/TA200
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	20% to 80%, non-condensing	10% to 90%, non-condensing
Recommended storage temperature	-4°F to 158°F (-20°C to 70°C)	-4°F to 158°F (-20°C to 70°C)
Recommended storage relative humidity	15% to 85%, non-condensing	15% to 85%, non-condensing
Altitude	Up to 10,000ft (3.05km)	Up to 10000ft (3.05km) for GigaVUE-TA100/TA100-CXP Up to 16405ft (5.00km) for GigaVUE-TA200

Table 7: 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 8: Compliance

Type	GigaVUE-TA10	GigaVUE-TA40	GigaVUE-TA100	GigaVUE-TA200	GigaVUE-TA100-CXP
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	✓	✓	✓	✓	✓
BSMI	–	–	✓	✓	–
CCC, EAC	–	–	✓	✓	–
Emissions					
FCC Part 15, Class A	✓	✓	✓	✓	✓
VCCI Class A	✓	✓	✓	✓	✓
EN 55032/CISPR 32 Class A	✓	✓	✓	✓	✓
Australia/New Zealand AS/NZS CISPR-32 Class A	✓	✓	✓	✓	–
KCC Class A	✓	✓	✓	✓	–
BSMI	–	–	✓	✓	–
CCC, EAC	–	–	✓	✓	–
Immunity					
ETSI EN300 386 V1.6.1:2012	✓	✓	✓	–	✓
EN61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-8, 4-11, 3-2, 3-3	✓	✓	✓	✓	✓

Table 8: Compliance (continued)

Type	GigaVUE-TA10	GigaVUE-TA40	GigaVUE-TA100	GigaVUE-TA200	GigaVUE-TA100-CXP
Environmental					
EU RoHS 6, EU Directive 2011/65/EU	✓	✓	✓	✓	–
NEBS Level 3	✓	✓	✓	✓	✓
Security					
FIPS 140-2	✓	✓	✓	–	✓
UC APL	✓	✓	–	–	–
Common Criteria	✓	✓	–	–	–

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

Part Number	Description
Base Hardware	
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
GVS-TACX1	GigaVUE-TA100 edge node, 20 100G CXP cages, 8 QSFP28 cages, 2 power supplies, 3 fan trays, AC power, all ports enabled
GVS-TACX2	GigaVUE-TA100 edge node, 20 100G CXP cages, 8 QSFP28 cages, 2 power supplies, 3 fan trays, DC power, all ports enabled

Ordering Information (continued)

Part Number	Description
Base Hardware (continued)	
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
GVS-TAC21	GigaVUE-TA200 edge node, 32 100G ports enabled, 2 power supplies, 4 fan trays, AC power
GVS-TAC22	GigaVUE-TA200 edge node, 32 100G ports enabled, 2 power supplies, 4 fan trays, DC power
UPG-TAC20	Upgrade option for GigaVUE-TA200 to enable all 64 100G ports
CLS-TA100	Advanced Features License, GigaVUE-TA1/10 and 10G Whitebox, per node
CLS-TAQ00	Advanced Features License, GigaVUE-TA40, per node
CLS-TAC00	Advanced Features License, GigaVUE-TA100, per node
CLS-TAC20	Advanced Features License, GigaVUE-TA200, per node
Power Supply and Fans	
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, TA40, TA100 or HC1, DC, each
PWR-TAC01	Power Supply Module, GigaVUE-TA100, AC, each
PWR-TAC21	Power Supply Module, GigaVUE-TA200, AC
PWR-TAC22	Power Supply Module, GigaVUE-TA200, DC
FAN-TAC00	GigaVUE-TA100 Fan Assembly each (3 required)
FAN-TAC20	GigaVUE-TA200 Fan Assembly, each (4 required)
FAN-TAXQ0	GigaVUE-TA10 or TA40 Fan Assembly, each (2 required on TA10, 3 on TA40)

Ordering Information (continued)

Part Number	Description
Parts	
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
QSB-502	40 Gig QSFP+ BiDi, Multimode SR, Full Duplex
Q28-502	100 Gig QSFP28, Multimode SR4
Q28-503	100 Gig QSFP28, Singlemode LR4
Q28-513	100 Gig QSFP28, Singlemode CWDM4
CXP-502	100G CXP, Multimode SR10
Cable	
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)

Ordering Information (continued)

Part Number	Description
Management	
GFM-HW0-FM010	GigaVUE-FM Hardware Appliance, manages up to 10 Physical Visibility Fabric Nodes
GFM-FM001	GigaVUE-FM, manage 1 Physical Visibility Fabric Node
GFM-FM005	GigaVUE-FM, manage up to 5 Physical Visibility Fabric Nodes
GFM-FM010	GigaVUE-FM, manage up to 10 Physical Visibility Fabric Nodes
GFM-FM000	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 Security Delivery Platform or to contact your local representative, please visit: www.gigamon.com.