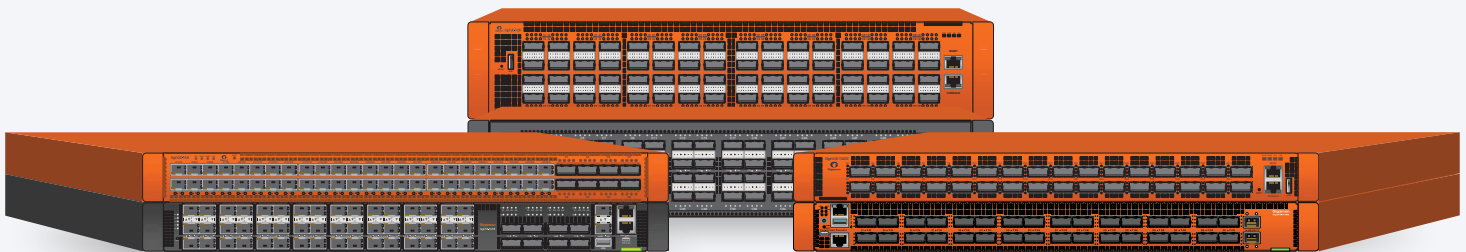


# GigaVUE TA Series

Edge traffic aggregation and distribution visibility for  
small to large enterprises and service providers



GigaVUE-TA25/TA25E/TA200/TA200E/TA400/TA400E products.

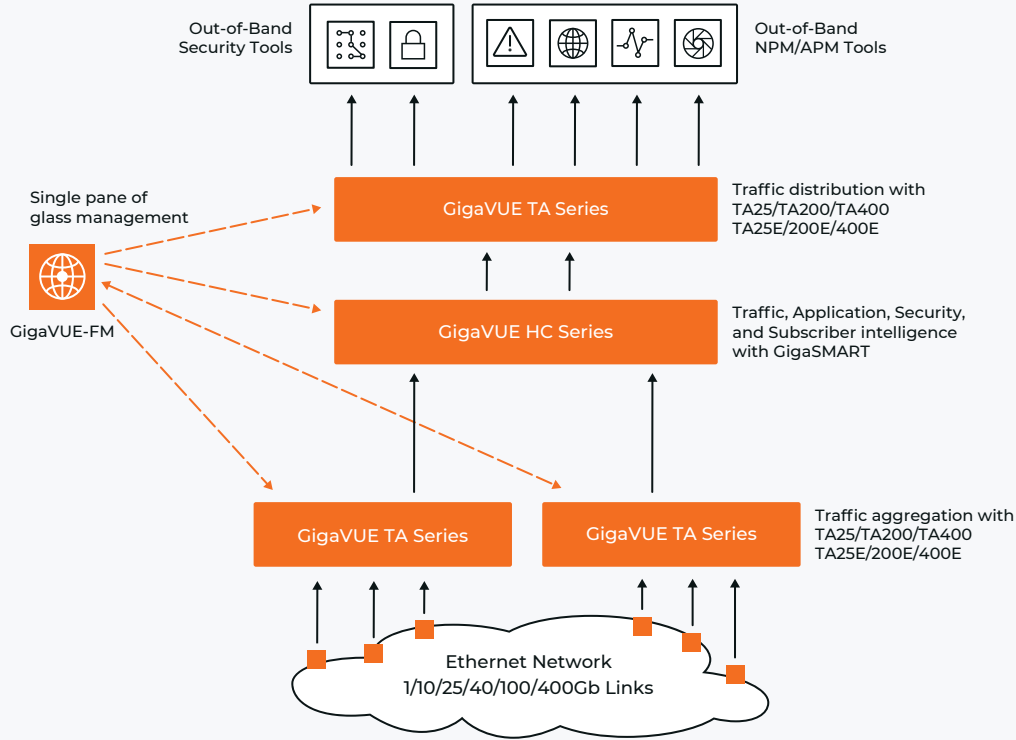
## Key Benefits

### Management, Integration, and Installation

- Small footprint with low space, power, and cooling needs
- Rapid programmatic response to detectable events
- Advanced integration with tools, controllers, and other infrastructure systems
- Smaller port-density 12-port TA25E platform best suited for your distributed sites, IoT, remote deployments.
  - Scale up easily with licensing
- Lower-speed 100G TA400E platform best suited for large enterprises, service providers with 100G needs.
  - Scale up easily with licensing

### Traffic Forwarding for Network and Security Operations

- Optimize the delivery of your network traffic to your monitoring and security tools, enabling:
  - Elimination of contention for network data access
  - Targeting specific flows to specific tools with network awareness
  - Sharing traffic load across multiple tools' instances
- Selectively aggregate and replicate traffic at line rate
- Reuse existing tools for current and new network links
- Scale network coverage and tool deployment with continuous visibility



**Figure 1.** GigaVUE TA Series is used to aggregate traffic from your network, feed GigaVUE HC Series for more intelligent traffic optimization, and then distribute to tools for security, network and application monitoring.

## Product Description

The GigaVUE® TA Series of edge network packet brokers is a key component of the Gigamon Deep Observability Pipeline. They are designed to simply aggregate multiple network links and feed the combined traffic to GigaVUE HC Series, directly to security and monitoring tools, or both.

In addition to physical networks, you gain centralized visibility into cloud and remote sites' network traffic, with tunnel termination and de-encapsulation on all GigaVUE TA Series platforms. You can also perform selective traffic aggregation, replication, filtering, and load balancing on the GigaVUE TA Series.

Gigamon offers a wide set of capabilities for all of your packet brokering needs. GigaVUE TA Series optimizes traffic flow to ensure that only the traffic of interest is

forwarded. The GigaVUE HC Series can then perform traffic, application, and subscriber intelligence functions for more sophisticated traffic handling and forwarding. Lastly, GigaVUE-FM provides single-pane, centralized management and control of both GigaVUE TA and GigaVUE HC Series nodes, and also provides programmable APIs for software-defined visibility.

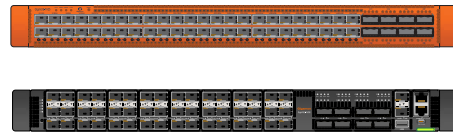
With up to more than 25Tbps of traffic processing across 32 clustered nodes of GigaVUE TA Series with GigaVUE HC Series, you get network traffic visibility into all data in motion. With Gigamon, you can eliminate traffic overload for tools and easily deploy or upgrade any out-of-band security and monitoring tools.

**Use Cases Include:**

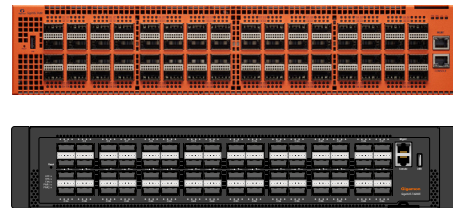
- Aggregation of multiple SPAN and tap traffic feeds into higher-speed uplinks
- Extending reach and density of network visibility across the data center
- Visibility into leaf and spine architectures for security and performance monitoring
- Top of rack deployment, consolidating traffic to GigaVUE HC Series node at end of row
- Data center upgrades moving to Cisco BiDi infrastructures
- Pay as you grow with lower port and lower throughput platforms

**GigaVUE TA Series Family****GigaVUE-TA25/GigaVUE-TA25E**

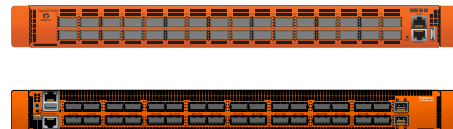
1RU form factor meets the core traffic aggregation and forwarding needs of small to large 1Gb, 10Gb, 25Gb, 40Gb, and 100Gb networks

**GigaVUE-TA200/GigaVUE-TA200E**

2RU form factor meets the core traffic aggregation and forwarding needs of medium to large size 10Gb, 25Gb, 40Gb, and 100Gb networks

**GigaVUE-TA400/GigaVUE-TA400E**

1RU form factor meets the core traffic aggregation and forwarding needs of large to massive size 10Gb, 25Gb, 40Gb, 100Gb, and 400Gb networks



## Key Features and Benefits

<b>Network and Traffic Access</b>	<p><b>Five fixed-port configuration chassis models covering a range of Ethernet port speeds and media with pluggable transceivers:</b></p> <ul style="list-style-type: none"> <li>• 1000Mb and 10Gb copper</li> <li>• 1Gb, 10Gb, 25Gb, 40Gb, 100Gb multimode and single-mode fiber</li> </ul> <p>Compatible with SFP, SFP+, QSFP+, and QSFP28 MSA-compliant transceivers, as offered by Gigamon</p> <ul style="list-style-type: none"> <li>• Scale from low- to high-density systems with a wide range of costeffective options – deploy exactly what is needed</li> <li>• Plug into a variety of network environments with multiple fiber optic transceiver options</li> </ul>
<b>Core Intelligence</b>	<p><b>Flow Mapping®, including:</b></p> <ul style="list-style-type: none"> <li>• Aggregation and replication <ul style="list-style-type: none"> <li>– Selective any-to-any port mapping</li> </ul> </li> <li>• Filtering <ul style="list-style-type: none"> <li>– Layer 2 to 7 rules</li> <li>– Up to 88k map rules*</li> <li>– Aggregate and egress</li> </ul> </li> <li>• Load balancing <ul style="list-style-type: none"> <li>– Layers 2 to 4 hashing criteria</li> <li>– Session stickiness</li> </ul> </li> <li>• Access traffic from any link to any tool, even for different link rates</li> <li>• Remove issues with asymmetric routing and LAG</li> <li>• Optimize tools by only forwarding traffic of interest or dropping traffic not of interest</li> <li>• Spread load across multiple tool instances of same type</li> </ul> <p><b>Inline Bypass:</b></p> <ul style="list-style-type: none"> <li>• Logical bypass for 10G/25G/40G/100G/400G link rates</li> <li>• Aggregate multiple network segments</li> <li>• Filter and load balance towards inline applications/tools</li> <li>• Easily configure simple and complex tool chains</li> <li>• Customizable heartbeat packets for positive (through-path) and negative (block) tests</li> <li>• Provide full visibility for each inline security tool type (e.g., IPS, WAF)</li> <li>• Easily deploy security in layers solutions for both active and passive scenarios</li> <li>• Seamlessly migrate tools from passive out-of-band to active inline mode</li> <li>• Reduce likelihood of network impact due to malfunctioning active inline tools</li> </ul> <p><b>Source port tagging with VLAN</b></p> <ul style="list-style-type: none"> <li>• Pinpoint source of traffic</li> </ul>

<b>Core Intelligence cont'd</b>	<b>MAC address modification</b> <ul style="list-style-type: none"> <li>Obscure original MAC information to meet privacy needs with retained ability to distinguish traffic sources</li> <li>Allow certain tool types to ingest traffic that meets specific MAC address requirements</li> </ul>
	<b>Device and link discovery with ARP and LLDP</b> <ul style="list-style-type: none"> <li>Reduce time to install and configure GigaVUE nodes</li> </ul>
	<b>Clustering* and Fabric Maps*</b> <ul style="list-style-type: none"> <li>Enable resilient traffic forwarding</li> <li>Manage up to 32 nodes in a cluster as a single virtual node</li> <li>Enact end-to-end Flow Mapping across clusters, scaling to hundreds of nodes</li> </ul>
<b>Traffic Intelligence*</b>	<b>Tunnel initiation (L2GRE, VXLAN)</b> <ul style="list-style-type: none"> <li>Backhaul across IP networks to central sites or cloud-based tools</li> </ul>
	<b>Tunnel De-encapsulation (L2GRE, VXLAN)</b> <ul style="list-style-type: none"> <li>Facilitate traffic forwarding from cloud or virtual infrastructures</li> </ul>
	<b>Header Stripping (MPLS, VLAN, VXLAN)</b> <ul style="list-style-type: none"> <li>Improve effectiveness of tools that don't understand all network protocols</li> <li>Support for MPLS header stripping on TA400</li> </ul>
	<b>Time stamping with PTP time synchronization**</b> <ul style="list-style-type: none"> <li>Facilitate accurate latency and performance analysis of network protocols and application transactions</li> </ul>
<b>Management</b>	<b>Local and remote using:</b> <ul style="list-style-type: none"> <li>CLI (Telnet/SSH)</li> <li>XML API (HTTP/HTTPS)</li> <li>Fabric manager (HTTP/HTTPS)</li> <li>SNMP (v1, v2, v3)</li> <li>Syslog</li> <li>Easy to manage via CLI for users already familiar with Cisco</li> <li>Easy integration with applications using CLI or RESTful API</li> <li>Support SDN paradigm</li> <li>Manage and orchestrate from single "pane of glass"</li> <li>Alerts can be received by any syslog server or SNMP manager</li> </ul>

<b>Management cont'd</b>	<b>User access:</b> <ul style="list-style-type: none"> <li>• Role-based access control (RBAC) <ul style="list-style-type: none"> <li>– Multi-tenant user access</li> <li>– Flexible user/role defined privileges, screen views, and access</li> </ul> </li> <li>• AAA security with local and remote authentication (RADIUS, TACACS+)</li> <li>• Adhere to corporate IT security policies</li> <li>• Meet corporate IT authentication policy</li> </ul>
<b>System</b>	<b>Field replaceable hardware</b> <ul style="list-style-type: none"> <li>• AC and DC power supplies</li> <li>• Fan trays</li> <li>• Achieve five nines highly available uptime</li> </ul> <hr/> <b>Metrics and statistics</b> <ul style="list-style-type: none"> <li>• Management of CPU resources</li> <li>• Switching ASIC resources</li> <li>• Port utilization</li> <li>• Flow map throughput</li> <li>• Facilitate troubleshooting</li> <li>• Guide capacity planning and traffic forward rules</li> </ul>

\* Requires Advanced Features license

\*\* Only available on TA200

## Maximum Capabilities: Speeds and Feeds

Attribute	GigaVUE-TA25-TA25E	GigaVUE-TA200/TA200E	GigaVUE-TA400/TA400E
Size	"Small" (1RU)	"Medium" (2RU)	"Small" (1RU)
Throughput	2.0Tbps	6.4Tbps	12.8Tbps

### # Port Cage Types

SFP+	–	–	–/2
SFP28 <sup>1</sup>	48	–	–
QSFP+	–	–	–
QSFP28 <sup>2</sup>	8	64	–
QSFP-DD <sup>3</sup>	–	–	32

### # of Ports & Speeds

1Gb	48	–	–
10Gb	56*/80*	128*	128*/130*
25Gb	56*/80*	128*	128*
40Gb	8	64	32
100Gb	8	64	128*
400Gb	–	–	32

\* Maximum density requires using port breakout, such as G-Tap PNL-M341T

## Maximum Capabilities: Filter Entries

Filtering Type	GigaVUE-TA25-TA25E	GigaVUE-TA200/TA200E	GigaVUE-TA400/TA400E
<b>Flow Mapping Filtering</b>			
Default (per chassis)	256	256	256
With Advanced Features license (per pseudo-slot)	18k	24k	22k
<b>Egress Filtering</b>			
Default (per chassis)	20	20	20
With Advanced Features license (per pseudo-slot)	448	448	450
Pseudo-slots (per chassis)	1/2	4	4

## Product Specifications: Physical Dimensions and Weights

Product	Height	Width	Depth	Weight
GigaVUE-TA25/TA25E	1RU, 1.75 in (4.5 cm)	17.32 in (44 cm)	19.25 in (48.9 cm)	19.0 lbs (8.62 kg)
GigaVUE-TA200/TA200E	2RU, 3.48 in (8.84 cm)	17.32 in (44 cm)	21.25 in (54.0 cm)	33.60 lbs (15.24 kg)
GigaVUE-TA400/TA400E	1RU, 1.75 in (4.42 cm)	17.32 in (44 cm)	21.25 in (54.0 cm)/ 23.23 in (59.0 cm)	23.0 lbs (10.5 kg)/ 26.12 lbs (11.85 kg)

## Product Specifications: Power Consumption/Heat Output

Product	Max Specification
GigaVUE-TA25/TA25E	323W, 1102 BTU/hr / 400W, 1365 BTU/hr
GigaVUE-TA200/TA200E	1069W, 3645 BTU/hr / 800W, 2730 BTU/hr
GigaVUE-TA400/TA400E	1147W, 3601 BTU/hr / 1294W, 4412 BTU/hr

### Power Options:

- AC Power Supply: 100-240V AC, 50-60Hz
- DC Power Supply: -48V DC

Each GigaVUE TA Series node comes standard with dual load-sharing power supplies.

For detailed current specifications, please refer to the GigaVUE TA Series Hardware Installation guidelines in the [documentaion library](#).

## Product Specifications: Environmental Specifications

Aspect	GigaVUE-TA25/TA200/TA400/TA25E/200E/400E
Operating temperature	32°F to 104°F (0°C to 40°C)
Operating relative humidity	10% to 90%, 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 16,405 ft (5.0 km)



## Product Specifications: Compliance

Aspect	GigaVUE	Standard
Safety	TA200/TA200E/TA400	UL 60950-1; CSA C22.2 60950-1-07; IEC 60950-1; EN 62368-1
	TA25/TA25E/TA400E	UL 62368-1; CSA C22.2 62368-1-14; IEC 62368-1 & 60950-1; EN 62368-1
Emissions	TA25	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; EAC; Anatel; UKCA
	TA200/TA400	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; Anatel; UKCA
	TA25E/TA200E/TA400E	FCC Part 15, Class A; VCCI Class A; EN55032/CISPR 32 Class A; KCC Class A; Australia/New Zealand AS/NZS CISPR-32 Class A; BSMI; Anatel; UKCA
Immunity	TA25/TA25E/TA200/TA200E/TA400/TA400E	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
Environment	TA25/TA25E/TA200/TA200E/TA400/TA400E	EU RoHS 6, RoHS 3 (EU 2015/863); NEBS Level 3*
Security	TA25/TA25E/TA200/TA200E/TA400/TA400E	FIPS 140-2 level 1, Common Criteria, DoDIN APL, USGv6r1

\* Only on TA25/TA200/TA400

## Support

Gigamon offers a range of support and maintenance services. For details regarding Gigamon Limited Warranty and its Product Support and Software Maintenance Programs, visit [gigamon.com/support-and-services/overview-and-benefits](https://gigamon.com/support-and-services/overview-and-benefits).

## About Gigamon

Gigamon® offers a deep observability pipeline that efficiently delivers network-derived telemetry to cloud, security, and observability tools. This helps eliminate security blind spots and reduce tool costs, enabling you to better secure and manage your hybrid cloud infrastructure. Gigamon has served more than 4,000 customers worldwide, including over 80 percent of Fortune 100 enterprises, 9 of the 10 largest mobile network providers, and hundreds of governments and educational organizations. To learn more, please visit [gigamon.com](https://gigamon.com).



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