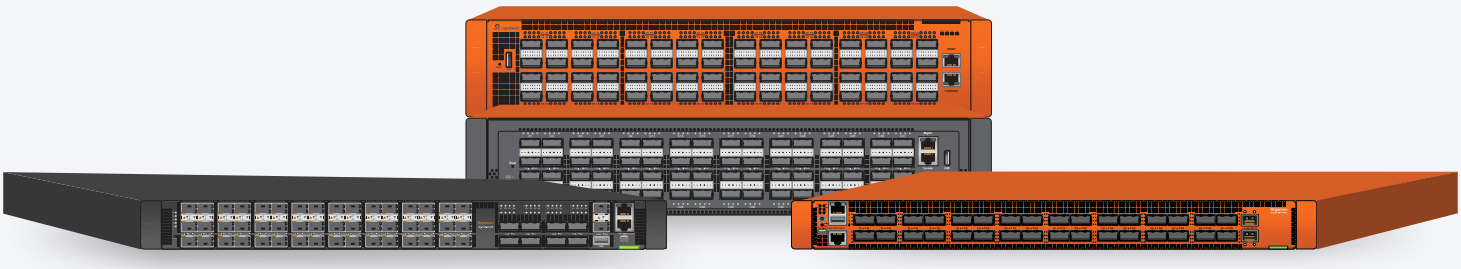
GigaVUE TA Series

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



GigaVUE-TA25E/TA200/TA200E/TA400E products.

Key Benefits

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

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
- Scalable TA25E (12, 24, 48 ports) well-suited for core data centers, distributed sites, remote deployments and IOT
- TA400E platform offers high-density 100G and 400G, well-suited for large enterprises and service providers
- Optional license-based port scaling allows for low-cost initial deployment which scales as you grow, without re-deployment

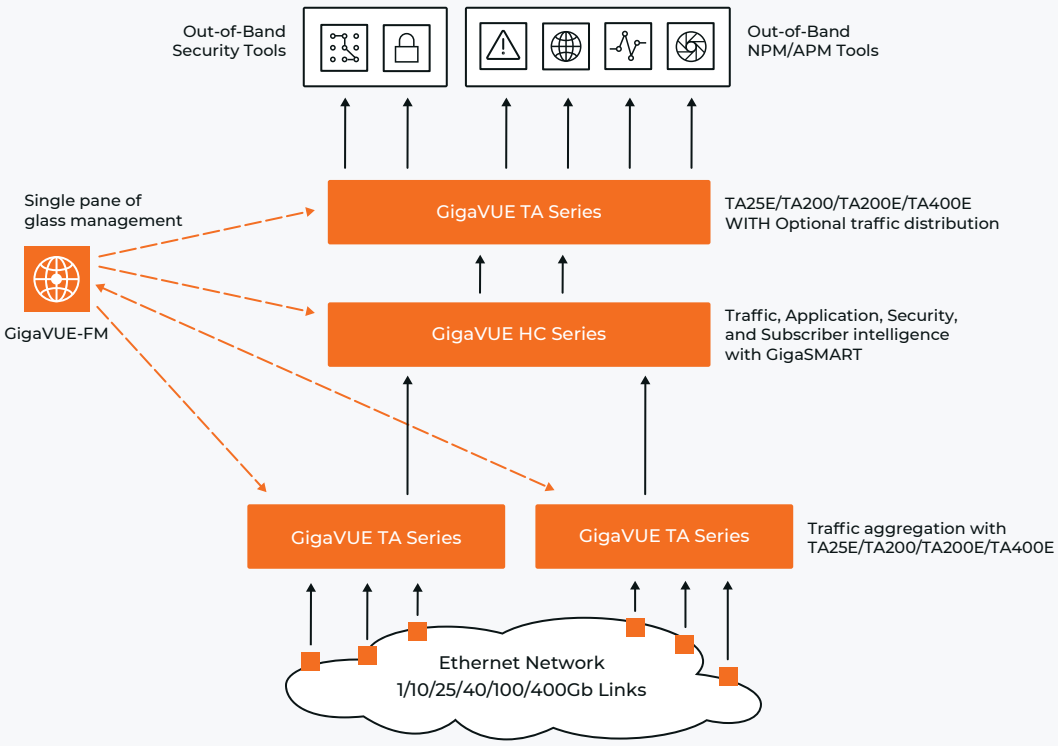


Figure 1. GigaVUE TA Series is used to aggregate traffic from your network, feed GigaVUE HC Series for more intelligent traffic optimization, and then distribute to tools for security, network and application monitoring.

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
- Logical Inline bypass solutions

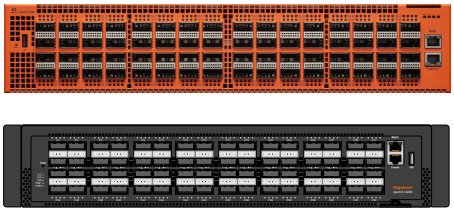
GigaVUE TA Series Family

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-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

Network and Traffic Access	**Five fixed-port configuration chassis models covering a range of Ethernet port speeds and media with pluggable transceivers:** • 1000Mb and 10Gb copper • 1Gb, 10Gb, 25Gb, 40Gb, 100Gb multimode and single-mode fiber Compatible with SFP, SFP+, QSFP+, and QSFP28 MSA-compliant transceivers, as offered by Gigamon • Scale from low- to high-density systems with a wide range of costeffective options – deploy exactly what is needed • Plug into a variety of network environments with multiple fiber optic transceiver options
Core Intelligence	**Flow Mapping®, including:** • Aggregation and replication – Selective any-to-any port mapping • Filtering – Layer 2 to 7 rules – Up to 88k map rules* – Aggregate and egress • Load balancing – Layers 2 to 4 hashing criteria – Session stickiness • Access traffic from any link to any tool, even for different link rates • Remove issues with asymmetric routing and LAG • Optimize tools by only forwarding traffic of interest or dropping traffic not of interest • Spread load across multiple tool instances of same type
	Inline Bypass: • Logical bypass for 10G/25G/40G/100G/400G link rates • Aggregate multiple network segments • Filter and load balance towards inline applications/tools • Easily configure simple and complex tool chains • Customizable heartbeat packets for positive (through-path) and negative (block) tests • Provide full visibility for each inline security tool type (e.g., IPS, WAF) • Easily deploy security in layers solutions for both active and passive scenarios • Seamlessly migrate tools from passive out-of-band to active inline mode • Reduce likelihood of network impact due to malfunctioning active inline tools
	Source port tagging with VLAN • Pinpoint source of traffic

Core Intelligence cont'd	**MAC address modification** • Obscure original MAC information to meet privacy needs with retained ability to distinguish traffic sources • Allow certain tool types to ingest traffic that meets specific MAC address requirements
	Device and link discovery with ARP and LLDP • Reduce time to install and configure GigaVUE nodes
	Clustering* and Fabric Maps* • Enable resilient traffic forwarding • Manage up to 32 nodes in a cluster as a single virtual node • Enact end-to-end Flow Mapping across clusters, scaling to hundreds of nodes
Traffic Intelligence*	**Tunnel initiation (L2GRE, VXLAN)** • Backhaul across IP networks to central sites or cloud-based tools
	Tunnel De-encapsulation (L2GRE, VXLAN) • Facilitate traffic forwarding from cloud or virtual infrastructures
	Header Stripping (MPLS, VLAN, VXLAN) • Improve effectiveness of tools that don't understand all network protocols • Support for MPLS header stripping on TA400
	Time stamping with PTP time synchronization** • Facilitate accurate latency and performance analysis of network protocols and application transactions
Management	**Local and remote using:** • CLI (Telnet/SSH) • XML API (HTTP/HTTPS) • Fabric manager (HTTP/HTTPS) • SNMP (v1, v2, v3) • Syslog • Easy to manage via CLI for users already familiar with Cisco • Easy integration with applications using CLI or RESTful API • Support SDN paradigm • Manage and orchestrate from single "pane of glass" • Alerts can be received by any syslog server or SNMP manager

Management cont'd	**User access:** • Role-based access control (RBAC) – Multi-tenant user access – Flexible user/role defined privileges, screen views, and access • AAA security with local and remote authentication (RADIUS, TACACS+) • Adhere to corporate IT security policies • Meet corporate IT authentication policy
System	**Field replaceable hardware** • AC and DC power supplies • Fan trays • Achieve five nines highly available uptime
	Metrics and statistics • Management of CPU resources • Switching ASIC resources • Port utilization • Flow map throughput • Facilitate troubleshooting • Guide capacity planning and traffic forward rules

* Requires Advanced Features license

** Only available on TA200

Maximum Capabilities: Speeds and Feeds

Attribute	GigaVUE-TA25E	GigaVUE-TA200/TA200E	GigaVUE-TA400E
Size	"Small" (1RU)	"Medium" (2RU)	"Small" (1RU)
Throughput	2.0Tbps	6.4Tbps	12.8Tbps
# Port Cage Types			
SFP+	–	–	2
SFP28[1]	48	–	–
QSFP+	–	–	–
QSFP28[2]	8	64	–
QSFP-DD[3]	–	–	32
# of Ports & Speeds			
1Gb	48	–	–
10Gb	56*/80*	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-TA25E	GigaVUE-TA200/TA200E	GigaVUE-TA400E
Flow Mapping Filtering			
Default (per chassis)	256	256	256
With Advanced Features license (per pseudo-slot)	18k	24k	22k
Egress Filtering			
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-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-TA400E	1RU, 1.75 in (4.42 cm)	17.32 in (44 cm)	23.23 in (59.0 cm)	26.12 lbs (11.85 kg)

Product Specifications: Power Consumption/Heat Output

Product	Max Specification
GigaVUE-TA25E	400W, 1365 BTU/hr
GigaVUE-TA200/TA200E	1069W, 3645 BTU/hr / 800W, 2730 BTU/hr
GigaVUE-TA400E	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-TA200/TA25E/TA200E/TA400E
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	TA200E	UL 60950-1; CSA C22.2 60950-1-07; IEC 60950-1; EN 62368-1
	TA25E/TA400E	UL 62368-1; CSA C22.2 62368-1-14; IEC 62368-1 & 60950-1; EN 62368-1
Emissions	TA200	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	TA25E/TA200/TA200E/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	TA25E/TA200/TA200E/TA400E	EU RoHS 6, RoHS 3 (EU 2015/863); NEBS Level 3*
Security	TA25E/TA200/TA200E/TA400E	FIPS 140-3 Inside #5046, Common Criteria, DoDIN APL, USGv6r1

* Only on TA200

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.

About Gigamon

Gigamon® delivers an AI-powered Deep Observability Pipeline that provides network-derived telemetry to cloud, security, and observability tools. With AI-driven insights across packets, flows, and application metadata, organizations gain complete visibility into all data in motion to detect threats concealed in encrypted and lateral traffic, resolve network and application performance issues, and validate compliance while reducing operational cost and complexity. Gigamon is trusted by 4,000+ organizations, including 83 of the Fortune 100 and hundreds of public sector agencies and educational institutions. Learn more at gigamon.com.

Gigamon®

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