

GigaSMART Appliance

Scale Application Intelligence for Hybrid AI

Designed for high-performance processing, the **GigaSMART® appliance** extends the Gigamon Deep Observability Pipeline with the processing capacity and density to run GigaSMART applications at scale, including Application Metadata Intelligence (AMI), across high-speed hybrid cloud infrastructure.

Its flexible, disaggregated design adds GigaSMART processing capacity where needed and connects to GigaVUE® TA Series and GigaVUE HC Series deployments through two 400 Gbps bidirectional ports, providing up to 800 Gbps of input capacity.

The appliance can apply GigaSMART applications such as De-duplication to reduce redundant packet volume for packet-based tools and Application Metadata Intelligence (AMI) to derive application and protocol context from network traffic. AMI delivers that context as trusted, high-fidelity, network-derived telemetry. The telemetry includes application identity, round-trip time, relationships, dependencies, and certificate context.

This telemetry supports use cases such as:

- Cybersecurity and threat hunting
- Network performance assurance
- Compliance auditing and reporting
- Certificate visibility, including post-quantum cryptography (PQC)
- Compromise visibility for OT/IoT devices
- Detection of unsanctioned applications, including cryptomining and peer-to-peer traffic
- Visibility into AI and shadow AI on the network
- Application dependency mapping and topology generation

Beyond the GigaSMART appliance, the Gigamon portfolio supports enterprise network traffic visibility and packet brokering. For example, GigaVUE TA Series optimizes traffic flow so that only traffic of interest is forwarded. GigaVUE HC Series nodes perform additional traffic, application, and subscriber intelligence functions. Centralized management through the GigaVUE-FM fabric manager provides an integrated view of nodes in the Deep Observability Pipeline, with programmable APIs for software-defined visibility.



Figure 1. The GigaSMART appliance scales GigaSMART processing and metadata delivery in a compact single-rack-unit design.

Key Benefits

NETWORK METADATA GENERATION FOR AI

- Generate AI-ready network metadata by transforming packet flows of up to 400 Gbps.
- Enrich metadata with derived attributes, including application identification and round-trip time.
- Process in near-real time with approximately 60 seconds of latency.
- Feed data directly to data stores, including SIEM, observability, and data lake environments.
- Support downstream data engines, data buses, and telemetry pipelines.
- Make data in downstream stores AI-ready for agentic AI workflows, agents, and tools.
- Support file-format conversion, including JSON.

HIGH-SPEED PROCESSING PIPELINE

- Provide the density needed for high-scale deployments in a single rack unit.
- Provide high-performance De-duplication to optimize packet delivery to downstream tools.
- Complement GigaVUE TA Series and GigaVUE HC Series deployments for additional aggregation, filtering, and brokering.
- Provide centralized management and API integration through GigaVUE-FM fabric manager.

GigaSMART Appliance in the Gigamon Deep Observability Pipeline

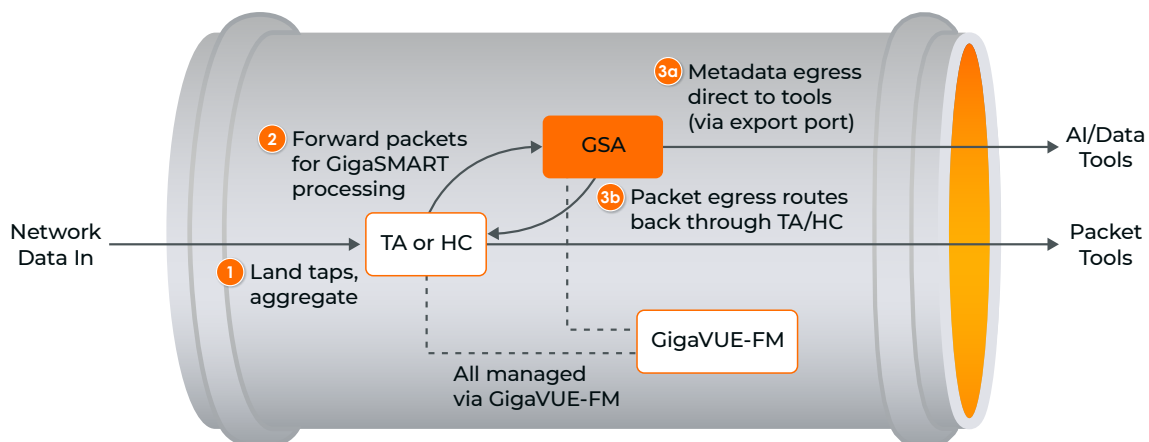


Figure 2. The GigaSMART appliance processes packets from the GigaVUE HC and TA nodes, returns packets to packet tools, and sends metadata directly to AI/data tools.

KEY FEATURES AND BENEFITS

Traffic Intelligence	De-duplication • Remove duplicate packets based on user-definable packet comparison criteria and duplicate detection window • Offload de-duplication function from tools, increasing their capacity • Enable forensics tools to store more data
Application Intelligence	Application Filtering Intelligence • Filter applications based on application name, application family or application tags • Filter custom applications • Define advanced filtering rules to further refine traffic • Improve signals to noise ratio by forwarding just the relevant traffic to tools • Reduce data storage cost for packets forensics Application Metadata Intelligence • Export close to 6,000 metadata elements across applications including application family and application tags • Export metadata directly to network and security monitoring tools in standard formats (viz., NetFlow v5/v9, IPFIX and CEF) • Reduce tool overload by monitoring protocol/application attributes instead of monitoring raw packets • Reduce MTTI/MTTR by enriching logs on SIEM/Observability tools with network derived intelligence • Customize monitoring protocol/application attributes based on use case Application Metadata Exporter (AMX) • Transform and export application metadata including mobility metadata in JSON formats over HTTPS/Kafka • Export metadata to cloud native tools/data lakes for network, security and compliance monitoring • Use enriched metadata in mobile networks for subscriber analytics

KEY FEATURES AND BENEFITS

Management	Local and remote management using: • CLI (Telnet/SSH) • Rest API (HTTPS) • GigaVUE-FM fabric manager (HTTP/HTTPS) • SNMPv2c, and SNMPv3 • Syslog • Manage and orchestrate from single pane of glass • Alerts can be received by any syslog server or SNMP manager User access through GigaVUE-FM • 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 • Hot-swappable AC and DC power supplies • Storage Drives • Achieve five nines highly available uptime Metrics and statistics • Management of CPU resources

Speeds and Feeds

COMPONENTS

TECHNICAL SPECIFICATIONS

Data Ports	Equipped with 2 x 400Gb QSFP112/QSFP28 ports. Each data port is capable of running as 1 x 400 Gbps, 4 x 100 Gbps (with breakout), 1 x 100 Gbps, or 1 x 40 Gbps. These data ports can connect to any of the following GigaVUE devices: • GigaVUE-HCT • GigaVUE-HC1 • GigaVUE-HC1-Plus • GigaVUE-HC3 • GigaVUE-TA400/GigaVUE-TA400E • GigaVUE-TA200/GigaVUE-TA200E • GigaVUE-TA25/GigaVUE-TA25E
SFP Management/Export Ports	Equipped with 4x10/25 Gbps SFP28 fiber ports, dedicated to sending metadata and NetFlow records to downstream monitoring tools.
Copper Management/Export Ports	Equipped with 4x1/10 Gbps BASE-T copper ports for device management.
GigaSMART Engines	Equipped with two independent GigaSMART Engines, each capable of running one or more GigaSMART applications.

Physical Dimensions and Weights

PRODUCT	HEIGHT	WIDTH	DEPTH	WEIGHT
GSA110	1RU, 1.68 in (42.8 mm)	18.97 in (482 mm)	31.89 in (810 mm), including the bezel	40 lb (18.1 kg)

Power Consumption/Heat Output

PRODUCT

MAX SPECIFICATION

GSA110	1,500W; 5118 BTU/hr
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Power Options

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

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

For detailed current specifications, please refer to the GigaVUE GigaSMART Hardware Installation Guide in the [documentation library](#).

Environmental Specifications

ASPECT	GSA110
Operating temperature	50–95°F (10–35°C)
Operating relative humidity (non-condensing)	8% RH with -12°C minimum dew point to 80% RH with 21°C (69.8°F) maximum dew point
Recommended storage temperature	-40–149°F (-40–65°C)
Recommended storage relative humidity	5% to 95% RH with 27°C (80.6°F) maximum dew point, non-condensing
Altitude	Maximum operating altitude: 10,000 ft (3,048 m)

Compliance

ASPECT	STANDARD
Safety	IEC 62368-1, EN IEC 62368-1, UL 62368-1, CSA C22.2 No. 62368-1:19, AS/NZS 62368.1
Emissions	Class A; FCC Part 15, ISED ICES-003 (Canada), EN 55032 (EU), AS/NZS CISPR 32 (RCM Mark for ANZ), ATO N° 1120 (Anatel for Brazil), KS C 9832 (RRA for South Korea)
Immunity	EN 55035, EN 61000-3-2, EN 61000-3-3, KS C 9835 (RRA)
Environment	Energy: EU Commission Regulation (EU) No. 2019/424, ErP Lot 9, Energy Star 4.0, ROHS: EN IEC 63000:2018

Support and Services

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/support-and-services.

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.

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