

Gigamon GigaVUE HC Series Appliance

GigaVUE-HCT

Comprehensive Traffic and Security Intelligence Delivered in a Compact Mobile, Edge, and Tactical Deployable Unit



Figure 1. Front and back view of GigaVUE-HCT.

The GigaVUE® HC Series, as part of the [Gigamon Deep Observability Pipeline](#), enables comprehensive traffic and security intelligence at scale, making it an ideal choice for organizations to uplevel their security and monitoring capabilities.

One of the challenges facing public sector organizations, such as U.S. and international government agencies, is the inability to carry IT gear from one place to another to ensure security and compliance. Many of these organizations have critical requirements for mobile deployable units that don't compromise enterprise-grade functionality. This is the primary reason the Gigamon GigaVUE-HCT was conceived.

The GigaVUE-HCT appliance is part of the GigaVUE HC Series family that enables organizations to leverage the same full feature set found in the GigaVUE HC Series in a compact and portable form, in environments where low-SWaP (size, weight, and power) requirements are critical.



Comprising a half-width in a single rack unit with a depth of under 13 inches, the GigaVUE-HCT is optimized to fit in small form-factor deployable kits such as a TSA-approved carry-on suitcase or backpack. It features a single module bay, interchangeable with modules from the GigaVUE-HC1 and GigaVUE-HC1-Plus, for maximum extensibility in the smallest of deployments.

Key Benefits

GigaVUE-HCT underpins your mission to safeguard critical network infrastructure and assets with high-performance, next-generation network visibility, offering the following key benefits:



The small footprint provides agility for on-the-go deployments to address complex network visibility requirements and helps future-proof out-of-band in-line monitoring and security infrastructure.



Fulfills the most stringent compliance requirements, such as the U.S. Department of Defense (DoD) Certifications and the U.S. Trade Agreement Act (TAA). This includes the power supply, Common Criteria, DoD Approved Products List (APL), and Federal Information Processing Standards (FIPS).



Gigamon [GigaSMART](#)® traffic transformation and forwarding capabilities enable enterprise-grade traffic and security intelligence. GigaVUE-HCT shares the same capabilities as the GigaVUE HC Series, but in a compact form factor designed for shallow racks and transportability.

Key Capabilities

- 1RU, half-width, short-depth modular chassis, with reduced electrical load, heat dissipation, and various media options (see the GigaVUE HC Series [data sheet](#) for GigaVUE-HCT product specifications)
- Supports a wide range of network speeds in the same 1RU chassis with one GigaSMART engine — from 10Mb to 100Gb port speeds for up to 500Gbps throughput
- Intelligent GigaSMART (see [data sheet](#)) traffic transformation and forwarding capabilities supported in GigaVUE HC Series, including:

Traffic Intelligence

for streamlining traffic (Adaptive Packet Filtering, Advanced Load Balancing, De-duplication, Header Stripping, Masking, NetFlow Generation, Slicing, Advanced Tunneling, Advanced Flow Slicing)

- Removal of duplicate packets resulting from mirror/SPAN ports and multiple tapping points, with at least 50 percent reduction in monitoring traffic
- Removal or truncation of packets in a flow following initial session establishment packets
- Visibility into encrypted traffic, including TLS 1.3 encrypted flows

Application Intelligence

to filter and extract application metadata (Application Filtering Intelligence, Application Metadata Intelligence)

- Ignores or focuses on specific applications within user traffic, making monitoring and security more efficient and effective
- Generates rich metadata for control and user-plane traffic to feed monitoring and security tools (such as SIEM) that don't ingest raw packets

Security Intelligence

for TLS/SSL decryption

- Allows inspection by out-of-band security and monitoring tools while maintaining overall data integrity and security posture
- Enables decrypted data to be re-encrypted prior to sending it to its intended destination
- Validates encrypted traffic to reinforce Zero Trust architectures and enforce security policies



Key Deployment Scenarios

Enterprise-grade traffic, security, and application intelligence for always-on-the-go organizations



GigaVUE-HCT is well suited for public sector organizations, such as U.S. and international government agencies, that need to easily carry IT gear from one place to another to assure security and compliance governance. These mobile deployable units allow organizations to leverage full-featured, enterprise-grade network and traffic access functionality supported in the Gigamon GigaVUE HC Series. Once the traffic is acquired, the Gigamon Deep Observability Pipeline offers several basic and advanced packet and flow-brokering capabilities to help organizations perform security and compliance audits and secure overall hybrid cloud infrastructure.

Satellite network protection from cyberattacks through complete visibility for defense agencies



The GigaVUE-HCT is ideal for both U.S. and international air and naval forces with stringent environmental requirements for heat and electrical usage. Airplanes and ships have a limited capacity to rack equipment. The GigaVUE-HCT enables these organizations to fulfill those needs, as it generates less heat and uses less electrical power. In addition, satellite network security is a constant concern for air and naval forces, the ultimate goal is to protect communication devices from tampering or hacking, even if the satellite hosting them comes under attack. GigaVUE-HCT, combined with the Gigamon Deep Observability Pipeline, provides end-to-end visibility into network traffic, resulting in increased security resilience.

Securing operational technology (OT) environments with robust security measures and continuous monitoring for the public sector



With increased connectivity between IT and OT networks, the attack surface expands, exposing OT systems to potential cyber threats. OT personnel are wrestling with ways to protect and maintain reliable and continuous infrastructure availability. With GigaVUE-HCT, OT teams can remotely monitor infrastructure security posture and aggregate and correlate the data captured, allowing remote management to support both IT and OT networks. The Gigamon Deep Observability Pipeline, accessed through the GigaVUE-HCT, provides a holistic approach to continuous monitoring and visibility, enabling collaboration between IT and OT teams to ensure the resilience and protection of OT environments.

Conclusion

As part of the Gigamon Deep Observability Pipeline, the GigaVUE HC Series enables comprehensive traffic and security intelligence at scale. These next-generation network packet brokers are an ideal choice to enhance your security and monitoring solutions. The GigaVUE-HCT takes this capability to new hard-to-reach places by providing the same full feature set in a compact form.

See the GigaVUE HC Series [data sheet](#) for details on product specifications and the GigaSMART [data sheet](#) for details on traffic and application intelligence features.

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