



Data Sheet

GigaVUE-OS on Third-Party White Box

Product Description



Infrastructure blind spots created by encapsulated and encrypted traffic are creating increasingly complex and seemingly undetectable security threats. Combined with the desire to embrace Software-defined Network (SDN) technology, data center operators are increasingly acknowledging the value and criticality of pervasive and end-to-end visibility to deliver essential infrastructure monitoring. With a significant amount of traffic between different tiers of distributed applications happening below the spine switch in a data center, it is critical to have a scalable monitoring approach that provides the scale, intelligence, economics, and richness of visibility to every rack in a large data center using an approach that is called by some operators as "TAP all".

GigaVUE-OS™ is Gigamon’s market-leading visibility software that powers the intelligent core nodes (GigaVUE H Series) and the edge nodes (GigaVUE TA Series). The modular operating system software, GigaVUE-OS, has now been extended to select third-party white box hardware by abstracting software from the underlying hardware.

Consequently, the scope of visibility can be significantly expanded for cloud operators and hosting providers while simultaneously addressing the economics of the operator’s budget. By managing the entire visibility infrastructure through a centralized Fabric Manager offering APIs to external systems, instrumentation and controllers, operators can lay the foundation for Active Visibility built around Software-defined Visibility (SDV).

Table 1: Features and Benefits

Features	Benefits
 Powered by GigaVUE-OS	<ul style="list-style-type: none"> • Implement a uniform operating system software for visibility from edge to core of visibility infrastructure • Running GigaVUE-OS provides ports on the white box hardware access to the full suite of capabilities in the Gigamon Unified Visibility Fabric™
 Flow Mapping®	<ul style="list-style-type: none"> • Superior scale and precision of flow selection is configured via a set of user-defined map rules that can be implemented to send just the traffic of interest to the various tools and applications that secure, monitor, and analyze IT infrastructure • Access rest of the Visibility Fabric via gateway ports or cluster links • Distribute traffic from single higher-speed ports to multiple gateway ports with GigaStream™ technology • Replicate a single traffic source to multiple gateway ports enabling a range of tools to access the same traffic • Detailed filtering down to the bit pattern using user-defined attributes (UDA) • Standalone configurations may leverage up to 250 map rules
Cluster capable	<ul style="list-style-type: none"> • Extend traffic intelligence from GigaSMART® capable nodes to ports on the white box • Extend feature-rich capabilities of core nodes in the Visibility Fabric to low-cost ports on select white box hardware—apply advanced functions such as NetFlow Generation, SSL Decryption and other advanced traffic intelligence capabilities to any traffic in a data center without creating a sprawl in appliances • Up to 2000 map rules in clustered configurations

Table 1: Features and Benefits continued

Features	Benefits
Compatible with Open Network Install Environment (ONIE) Boot Loader	Allows organizations to use a common white box hardware platform for multiple operating systems, each specialized in different functions such as switching, visibility and more.
Managed by GigaVUE-FM	<ul style="list-style-type: none"> Adding optional industry-leading Fabric Manager that provides a single pane-of-glass view for the entire visibility infrastructure Allows the entire visibility infrastructure to be managed holistically irrespective of the hardware it runs on
REST API Support	<ul style="list-style-type: none"> Programmatic access to capabilities in the Visibility Fabric 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

Product Specifications

Table 2: Supported White Box Hardware

Hardware Vendor	Hardware Vendor Product	Description
Quanta Cloud Technology (QCT)	QuantaMesh BMS T3048-LY2R	<ul style="list-style-type: none"> 1 RU high density 10Gb bare metal switch with ONIE pre-loaded 48 1/10GbE SFP+ and 4 40GbE QSFP+ ports Redundant 1+1 AC power supplies Available with both front-to-back airflow and back-to-front airflow

Table 3: Standards & Protocols

Specification	GigaVUE-OS on Third-Party White Box
Standards and protocols	IEEE 802.3-2012, IEEE 802.1Q VLAN, IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-X, IEEE 802.3ae 10000BASE-X, IEEE 802.3ba, RFC 783 TFTP, RFC 791 IP, RFC 793 TCP, RFC 826 ARP, RFC 854 Telnet, RFC 768 UDP, RFC 792 ICMP, SNMP v1/v2c/v3, RFC 2131 DHCP client, RFC 1492 TACACS+, and support for IPv4 and IPv6

Purchase of premium support is required for this product.

Gigamon offers a range of premium support and extended services. For details regarding warranty and support, visit:

<http://www.gigamon.com/gigamon-technical-support>

Ordering Information

Table 4: Ordering Information

Part Number	Description
GSW-WBX00	GigaVUE-OS SW license for certified 10G-based white box edge hardware, perpetual license (Premium support required)
CLS-TA100	Clustering, GigaVUE-TA1, Feature license per node
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)
QSF-502	40 Gig QSFP+, Multimode SR4
QSB-501	40 Gig QSFP+ BiDi, Multimode SR RX-only
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)

For More Information

For more information about the Gigamon Unified Visibility Fabric or to contact your local representative, please visit:

www.gigamon.com