

GigaVUE-TA25E Hardware Installation Guide

GigaVUE TA Series

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Change Notes

When a document is updated, the document version number on the cover page will indicate a new version and will provide a link to this Change Notes table, which will describe the updates.

	Document Version	Date Updated	Change Notes				
6.12	1.0	10/27/2025	The original release of this document with 6.12.00 GA.				

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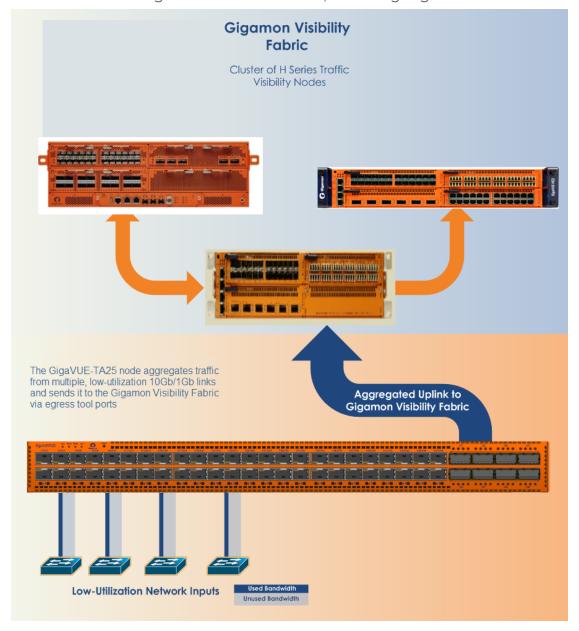
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GigaVUE TA Series Overview

GigaVUE TA Series nodes allow you to aggregate the traffic from multiple low-utilization links before sending the traffic to the GigaVUE HC Series nodes that form your Gigamon Deep Observability Pipeline.

IMPORTANT: The GigaVUE TA Series support network, tool, clustering, and stack port connections to other GigaVUE TA Series nodes, including GigaVUE HC Series nodes.



GigaVUE TA Series Nodes

GigaVUE TA Series includes the following models:

GigaVUE-TA25	 IRU Footprint 48 1Gb/10Gb/25Gb ports and 8 40Gb/100Gb ports, dual hot-pluggable power supplies (AC/DC), four rear hot-swappable fan modules, two console ports, and a 10M/100M/1Gb management port. Optional patch or breakout panel support Cluster with HC Series nodes
GigaVUE-TA25E	 IRU Footprint 48 IGb/10Gb/25Gb ports and 8 40Gb/100Gb port, dual hot-pluggable power supplies (AC/DC), four rear hot-swappable fan modules, two console ports, and a 10M/100M/1Gb management port. Optional patch or breakout panel support Cluster with GigaVUE HC Series nodes
GigaVUE-TA100	 IRU Footprint 32 40Gb/100Gb ports, dual hot-pluggable power supplies (AC/DC), hot-swappable fan modules Optional patch or breakout panel support Cluster with GigaVUE HC Series nodes

GigaVUE-TA200	 2RU Footprint 64 40Gb/100Gb ports, dual hot-pluggable power
	supplies (AC/DC), hot- swappable fan modules Optional patch or breakout
	panel support
	 Cluster with GigaVUE HC Series nodes
GigaVUE-TA200E	 2RU Footprint
	• 64 QSFP28 ports (40Gb/100Gb), dual hot- pluggable power supply modules (AC/DC) and hot- swappable fan modules.
	 UART RS232 Console port (RJ45) and Management port (RJ45).
GigaVUE-TA400	■ 1RU Footprint
	 32 40Gb/100Gb/400Gb QSFP-DD/ QSFP28/QSFP+ ports, dual hot-pluggable power supplies (AC/DC), seven rear hot-swappable fan modules, console port and a 10M/100M/1Gb management port. Cluster with HC Series nodes

GigaVUE TA Series Features and Benefits

GigaVUE TA Series nodes allow you to aggregate traffic from multiple network links from 1Gb up to 100Gb. The GigaVUE TA Series can pre-filter traffic for monitoring or be integrated into the GigaVUE HC Series cluster for end-to-end Flow Mapping® and management.

The GigaVUE HC Series and GigaVUE TA Series products share the same GigaVUE-OS software and are managed by GigaVUE-FM fabric manager for simplified operations. Traffic from any of these ports can be processed by GigaSMART traffic intelligence functions in GigaVUE HC Series devices to further optimize the traffic before it is sent to the tools. GigaVUE TA Series nodes offer the following features and benefits:

- High-density visibility for 1Gb, 10Gb, 25Gb, 40Gb, 100Gb and 400Gb.
- Low profile 2RU for GigaVUE-TA200 and GigaVUE-TA200E design offers easy deployment at the top of the rack or end of a row in data centers.

- Depending on the model, the GigaVUE TA Series supports a wide variety of Gigamon® transceivers. Transceivers purchased from other vendors are not supported.
- Optional patch panel or breakout panel allows use of 40Gb ports as four individual 10Gb ports on all the GigaVUE TA Series nodes, or 100Gb ports as four individual 25Gb ports on GigaVUE-TA200, GigaVUE-TA200E, GigaVUE-TA25, GigaVUE-TA25E or 400Gb ports as four individual 100Gb ports on GigaVUE-TA400.
- All ports of the same type and speed can be used to create GigaStream.
- Front to back cooling.
- Fan modules.
- AC or DC power supply. Included with each node is the redundant second power supply.

Standard GigaVUE HC Series Features

In addition to the features described above, the GigaVUE TA Series offers many standard features from the GigaVUE HC Series nodes:

Benefit	Descriptions			
Remote Management	Configure the GigaVUE TA Series Traffic Aggregator's operations from a command-line interface: Local access over the serial console port. Remote network access using SSH2 over the 1000 Ethernet Mgmt port.			
	 Secure access to the CLI, either through local authentication or optional RADIUS/TACACS+/LDAP support. Powerful and flexible logging, including event notification via syslog, email, and SNMP traps. 			
Aggregate Links	Send the data from multiple different network ports to a tool port or GigaStream, allowing you to combine traffic from multiple access points into a single stream for uplink to the Gigamon Deep Observability Pipeline.			
CLI Management	The GigaVUE TA Series nodes feature a common CLI with other GigaVUE HC Series nodes.			
Command Abbreviation	Type only as many letters of a command as are needed to positively differentiate from other available commands. For example, you only need to type con t to enter Config mode, not the full configure terminal command.			
SNMP Support	Rely on secure SNMP v3 access to the onboard SNMP agent as well as v1/v2 SNMP traps.			
Email Notifications	Use email alerts for proactive notification of a wide variety of GigaVUE TA Series node events, helping you keep tabs on system status in real time.			
Scalable Port Density	The GigaVUE-TA100 can have either sixteen (16), twenty-four (24), or thirty-two (32) 100Gb ports enabled. Licenses are available for the additional two sets of 8 ports.			
	The GigaVUE-TA200 can have either thirty-two (32) or sixty-four			

Benefit	Descriptions
	(64) 100Gb ports enabled. A license is available for the additional 32 ports.
	The GigaVUE-TA200E can have either thirty-two (32) or sixty-four (64) 100Gb/40Gb ports. A license is available for the additional 32 ports.
	The GigaVUE-TA25 has forty-eight (48) 25Gb/10Gb/1Gb ports and eight (8) 100Gb/40Gb ports enabled.
	A 24-port GigaVUE-TA25 called the GigaVUE-TA25A is also available. License is required to upgrade the GigaVUE-TA25A to include all 48 25Gb/10Gb/1Gb ports and the eight (8) 100Gb/40Gb ports.
	The GigaVUE-TA25E has forty-eight (48) 25Gb/10Gb/1Gb ports and eight (8) 100Gb/40Gb ports enabled.
	A 24-port GigaVUE-TA25E called the GigaVUE-TA25EA is also available. License is required to upgrade the GigaVUE-TA25EA to include all forty-eight (48) 25Gb/10Gb/1Gb ports as well as the eight (8) 100Gb/40Gb ports.
	The GigaVUE-TA400 has 32 400Gb/100Gb/40Gb QSFP-DD/QSFP28/QSFP+ ports and seven rear hot-swappable fan modules, a console port, and a 10M/100M/1Gb management port.
	The GigaVUE TA Series nodes make it easy to leverage the system's high port density, aggregating multiple underused 400Gb/100Gb/40Gb/25Gb/10Gb/1Gb network ports to 400Gb/100Gb/40Gb/25Gb/10Gb/1Gb tool ports for uplink to the Gigamon Deep Observability Pipeline.
Clustering	The GigaVUE-TA100, GigaVUE-TA200, GigaVUE-TA200E nodes, GigaVUE-TA25, GigaVUE-TA25E, and GigaVUE-TA400 can cluster with other GigaVUE HC Series nodes.
	The GigaVUE-TA400 can cluster with all GigaVUE HC Series nodes and GigaVUE TA Series nodes only with E-tag mode.
	This allows you to take advantage of features such as GigaSMART.
Ingress VLAN Tagging	VLAN Tags can be added to the ingress packets on a per-port basis. This can help identify, differentiate, or track incoming sources of traffic.
GigaVUE-FM (Centralized Management System)	Use the centralized GigaVUE TA Series Fabric Management System to review, configure, and update GigaVUE TA Series just like other GigaVUE HC Series.

Introducing the GigaVUE-TA25E Chassis

The GigaVUE-TA25E chassis consists of a 1RU, rack-mountable, 19" wide chassis with network, tool, management, and console ports at the front and power connections and fan module at the rear. Refer to GigaVUE-TA25E Ports and Description for a description of each of the port.

Figure 1 Front View

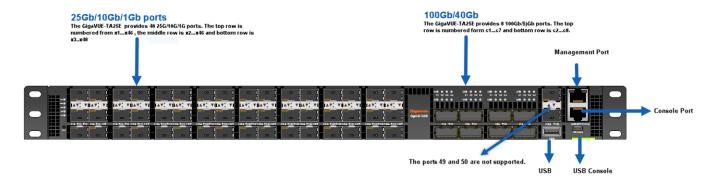
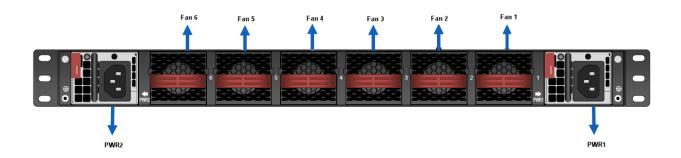


Figure 2 Rear View



GigaVUE-TA25E Ports and Description

Port	Description
Management	Use the Mgmt port for remote configuration of the GigaVUE-TA25E Traffic Aggregator over a 1000 Ethernet network. Refer to the installation guide for information on establishing an SSH configuration session with the GigaVUE-TA25E Traffic Aggregator.
Use the Console port for local configuration of the GigaVUE-TA25E Traffic Aggregator over serial connection. The serial settings are 8N1,115,200 bps. Refer to installation guide for information on establishing a serial configuration session with GigaVUE-TA25E Traffic Aggregator in a terminal window.	
USB Console	The USB Console is an alternative of RJ45 console port that would allow you to access GigaVUE-TA25E.
Ports x1x48	The GigaVUE-TA25E provides 48 25Gb/10Gb/1Gb ports (x1x48). For details about the supported transceivers and cable type, refer to the "GigaVUE Interoperability Matrix". The 24-port GigaVUE-TA25E is called GigaVUE-TA25EA. Refer to the Port Licensing section for license information to expand the 24-port GigaVUE-TA25EA to 48 25Gb/10Gb/1Gb ports and to enable eight 100Gb/40Gb ports.
Ports clc8	GigaVUE-TA25E also includes 8 100Gb/40Gb ports (c1c8).

Port	Description
Ports x49x50	The GigaVUE-TA25E chassis provides two additional 10Gb ports (x49x50) on the right side that are not yet supported.
Pseudo-Slots	GigaVUE-TA25E supports two pseudo-slots. The mapping of pseudo-slots is as follows: Pseudo-slot 1 – 1/1/x1x39, x42 Pseudo-slot 2 – 1/1/x4041, 1/1/x43x48, 1/1/c1c8 To view the CLI output above, use the command show pseudo-slot portmap box-id
Reset Button	This button on the front panel next to Gigamon logo allows you to reset GigaVUE-TA25E without having to unplug both PSU's. Push and hold the button for 5 seconds to reset.
Transceivers	For details about the supported transceivers and cable type, refer to the GigaVUE-OS Compatibility and Interoperability Matrix

Quadrant Port Speed Limit

The GigaVUE-TA25E ports follow a Quadrant port speed limit. The grouping is as shown in below figure:

x <u>1</u>	x4	x7	x10	x13	x16	x19	x22	x25	x28	x31	x34	x37	x40	x43	x46
X2	x5	x8	x11	x14	x17	x20	x23	x26	x29	x32	x35	x38	x41	x44	x47
х3	х6	x9	x12	x15	x18	x21	x24	x27	x30	x33	x36	x39	x42	x45	x48

The quadrant ports can be categorized into speed port groups, such as:

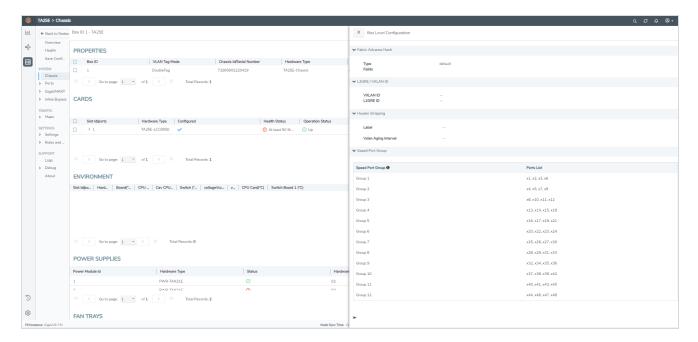
- Speed Group 1- x1,x2,x3,x6
- Speed Group 2- x4,x5,x7,x9
- Speed Group 3- x8,x10,x11,x12
- Speed Group 4- x13,x14,x15,x18
- Speed Group 5- x16,x17,x19,x21
- Speed Group 6- x20,x22,x23,x24
- Speed Group 7- x25,x26,x27,x30
- Speed Group 8- x28,x29,x31,x33
- Speed Group 9- x32,x34,x35,x36
- Speed Group 10- x37,x38,x39,x42
- Speed Group 11- x40,x41,x43,x45
- Speed Group 12- x44,x46,x47,x48

Each port in the quadrant speed group will follow the same speed that is being configured. For example, if the port x1 is configured with 25G speed then the other ports in the quadrant x2,x3,x6 should be configured with the same speed. In one quad group, there cannot be a mix of 10Gb and 25Gb ports.

To view the CLI output utilize the command show gmon speed-port-group

```
TA25E (config) # show gmon speed-port-group
                                             Port list
 SpeedPortGroup
    SPG1
                                              x1, x2, x3, x6
                                              x4, x5, x7, x9
    SPG2
                                              x8, x10, x11, x12
    SPG3
                                              x13, x14, x15, x18
    SPG4
                                              x16, x17, x19, x21
    SPG5
                                              x20, x22, x23, x24
    SPG6
    SPG7
                                              x25, x26, x27, x30
                                              x28, x29, x31, x33
    SPG8
    SPG9
                                              x32, x34, x35, x36
                                              x37, x38, x39, x42
    SPG10
                                              x40, x41, x43, x45
    SPG11
                                              x44, x46, x47, x48
    SPG12
```

To view the same in GigaVUE-FM, on the left navigation pane, click and then select **Physical>Nodes >System> Chassis**. Select **Box Level Configuration > Speed Port Group** the speed groups would list as shown below.



Chassis Cooling

The fans on the GigaVUE-TA25E run at 100% of their maximum speed on power up, then drop to approximately 60% during normal operations. The temperatures of four components: transceivers, exhaust, CPU, and switch CPU, are monitored. When a component crosses a pre-defined threshold, the fan speed is adjusted dynamically, in increments of approximately 10%. An SNMP trap is sent when a component reaches the threshold for warning or critical temperature conditions. Refer to Component Temperature Thresholds and Actions for the temperatures at which the warning and critical traps are sent and any additional action that occurs at a threshold.

Table 1: Component Temperature Thresholds and Actions

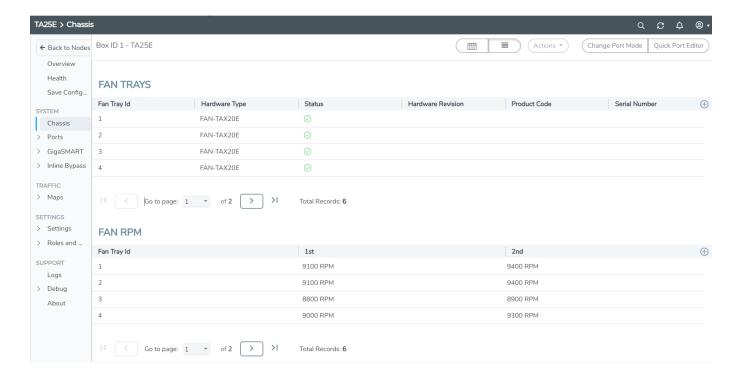
CPU Temperature	Switch Board 1 Temperature	Switch Board 3 Temperature		
90°C	60°C	50°C		
Warning trap sent	Warning trap sent	Warning trap sent		
100°C	65°C	55°C		
Alert trap sent	Alert trap sent; Switch CPU put in reset	Alert trap sent; Switch CPU put in reset		
105°C	70°C	60°C		
Critical trap sent	Critical trap sent	Critical trap sent		

The output of the following CLI command displays the current exhaust, CPU, switch CPU temperatures, intake temperature as well as the fan speed in RPM:

```
gigamon-6db79d # show environment type fan
*** Box 1 (TA25E-Chassis) ***
Fan tray 1 (TA25E-FANTRAY):
1st fan
                                                  : 8800 RPM
2nd fan
                                                  : 9300 RPM
 Fan tray 2 (TA25E-FANTRAY):
                                                  : 8800 RPM
 2nd fan
                                                  : 9000 RPM
Fan tray 3 (TA25E-FANTRAY):
                                                  : 8800 RPM
                                                  : 9100 RPM
2nd fan
Fan tray 4 (TA25E-FANTRAY):
 1st fan
                                                  : 9000 RPM
2nd fan
                                                  : 9200 RPM
Fan tray 5 (TA25E-FANTRAY):
                                                  : 8900 RPM
2nd fan
                                                  : 9100 RPM
 Fan tray 6 (TA25E-FANTRAY):
                                                  : 8900 RPM
                                                  : 8900 RPM
```

```
*** Box 1 (TA25E-Chassis) ***
Power Module 1 (TA25E-PWR-AC):
Product Code
                                                : FSF019
Serial Num
                                                : FSF019214300550
HW Rev
Status
                                                : off
                                                : N/A
input_voltage(V)
                                                : 0.000
input current (A)
                                                : 0.000
output_voltage(V)
                                                : 0.000
output current (A)
                                                : 0.000
temperature 1(C)
temperature 2(C)
                                                : 0.000
temperature 3(C)
                                                : 0.000
psu fan speed(RPM)
output power (W)
                                                : 0.000
input power(W)
                                                : 0.000
busy_fault
off fault
output_over_voltage_fault
output_over_current_fault
input under voltage fault
input over voltage fault
temperature fault
communication fault
Power Module 2 (TA25E-PWR-AC):
Product Code
                                                : FSF019
Serial Num
                                                : FSF019214300551
HW Rev
Status
                                                : 208.500
input voltage(V)
                                                : 0.625
input current (A)
output voltage(V)
                                                : 12.125
output current (A)
                                                : 10.500
temperature 1(C)
                                                : 41.000
temperature 2 (C)
                                                : 39.000
temperature 3(C)
                                                : 30.000
psu fan speed(RPM)
                                                : 6272
                                                  133.000
output power (W)
input_power(W)
busy_fault
                                                : 136.000
off_fault
output_over_voltage_fault
output_over_current_fault
input under voltage fault
input over voltage fault
temperature fault
communication fault
```

The GigaVUE-FM screen would display the current exhaust, CPU, switch CPU temperatures, intake temperature as well as the fan speed in RPM as shown below:



Power LED

The power LEDs on the front of the chassis (PWR1 and PWR2) are as follows:

- Solid GREEN indicates that the power supply unit (PSU) is connected to switch and is operating normally.
- Off indicates that the PSU is disconnected.

System LED

The system LED on the front of the chassis is as follows:

- Solid GREEN indicates normal operation
- Solid AMBER indicates system failure.
- Off indicates no power

Fan LED

The fan LED on the chassis is as follows:

- Solid GREEN indicates all fans are operating normally.
- Solid RED indicates fan has failed and fan tray is missing.

Port Status LEDs

The Port LED for GigaVUE-TA25E operates as follows:

The QSFP28/QSFP+ port status are as follows:

- GREEN indicates the port has a valid link at 100G.
- BLUE indicates the port has a valid link at 40G.
- YELLOW indicates the port has a valid link at 4x 25G.
- PURPLE indicates the port has a valid link at 4x 10G.
- Off indicates the link is operationally down.

The SFP28/SFP+/SFP port status are as follows:

- GREEN indicates the port has a valid link at 25G.
- YELLOW indicates the port has a valid link at 10G.
- AMBER indicates the port has a valid link at 1G.
- OFF indicates the link is operationally down.

PSU LEDs

The individual power LEDs on the rear of the chassis are as follows:

- GREEN indicates the PSU is operating normally and is receiving good AC input.
- OFF indicates the PSU is not operational and is not receiving any AC input.

GigaVUE-TA25E Rules and Notes

Keep in mind the following rules and notes when using the GigaVUE-TA25E:

GigaVUE-TA25E Rules and Notes						
Transceivers	All Gigamon labeled 1Gb, 10Gb, 25Gb, 40Gb and 100Gb optics are supported. For details about the supported transceiver, cable type, and connectivity specifications, refer to "GigaVUE-OS Compatibility and Interoperability Matrix".					
Network, Tool, Hybrid, Stack Port.	The GigaVUE-TA25E all ports can be used as network, tool, hybrid, circuit, and stack-link in all speeds.					
Map Rules and Port Filters	The GigaVUE-TA25E supports 256 map rules per pseudo slot and 20 egress port filters per pseudo slot, without advanced feature license. For details about the maximum map rule with advanced feature license, refer to the "Maximum Map Rules" table in the GigaVUE Fabric Management Guide.					

GigaVUE-TA25E Rules and Notes			
Inline Bypass Feature	Starting from software release 6.7 version, GigaVUE-TA25E supports Inline Bypass feature.		
Port Licensing	On the GigaVUE-TA25E, all ports are enabled. The GigaVUE-TA25E has forty-eight (48) 25Gb/10Gb/1Gb and eight (8) 100Gb/40Gb ports enabled. It does not require an upgrade license.		
	The following are the variants of GigaVUE-TA25E. • GigaVUE-TA25EA • GigaVUE-TA25EB - • GigaVUE-TA25E HTL Chassis Refer to the Port Licensing section on acquiring additional ports through licenses.		
Cluster Licensing	Connecting a GigaVUE-TA25E to a cluster requires the Advanced Features License.		

AMI_BIOS_Images

The GigaVUE-TA25E has an AMI Basic Input/Output System (BIOS). The BIOS image is packaged with the software image. The BIOS contents are stored in flash memory, allowing the BIOS to be upgraded. There are two flash components, a primary and a secondary.

The following CLI command displays the two flash components and indicates the BIOS image from which the system booted using asterisks:

```
Product release:
Build ID:
                         6.0.00_Beta
338074_Debug
                          2022-07-14 16:55:38
arget arch:
arget OS:
                          x86 64
                         b331be222d333a584a6ed7d41a9dd3e35a50679a
GigaVUE-OS 6.0.00 Beta Build 338074 Debug 2022-07-14 16:55:38 x86 64 gyta25e root@jenkins-slave535:git:b331be222d33
 ersion summary:
CPU CPLD version:
SW CPLD1 version:
SW CPLD2 version:
                         0x03
AN CPLD version:
lst flash version: v40.01.01.00 cnd flash version: v40.01.01.00 **
                         GigaVUE-TA25E
                         dca2ff0ef2ab
lost ID:
Jptime: 14m 5.730s
PPU load averages: 0.01 / 0.06 / 0.10 (1m/5m/15m)
                          o
698 MB used / 15181 MB free / 15879 MB total
0 MB used / 0 MB free / 0 MB total
ystem memory:
 igamon-6db79d #
```

If there is a component failure in the primary flash, the GigaVUE-TA25E boots from a backup golden BIOS image in the secondary flash. An SNMP trap can be configured to be sent when the system has booted from the secondary flash. The trap may indicate that the primary flash component needs to be serviced. The trap is as follows:

Air Flows Directions

The air flow direction is from the front of the GigaVUE-TA25E chassis to the rear. The rearmounted fans pull air from the front to the back of the chassis. For environments with hot/cold aisles, install the chassis so the intake air at the front of the chassis is cold.

AC and DC Powered GigaVUE-TA25E Models

Gigamon provides both AC and DC-powered versions of the GigaVUE-TA25E. Refer to Connecting Power to GigaVUE-TA25E.

Battery Caution

A disposable, non-rechargeable, Real Time Clock (RTC) Lithium manganese dioxide button battery is in the GigaVUE-TA25E. Note the following:

- There is a risk of fire if the battery is replaced with an incorrect type.
- Use only CR1220 type Lithium manganese dioxide button battery and replace with the same.

Breakout Modes

The breakout modes for GigaVUE TA Series can be in port mode. GigaVUE-TA25, GigaVUE-TA25E, GigaVUE-TA100, GigaVUE-TA200, GigaVUE-TA200E and GigaVUE-TA400 allows port breakout mode. Refer to the Configure the Port Mode for further details.

Configure the Port Mode

The port breakout modes are as follows:

- **4x10Gb**—Specifies the **4x10Gb** port breakout mode. This mode applies to GigaVUE-TA100, GigaVUE-TA200, GigaVUE-TA200E, GigaVUE-TA25, GigaVUE-TA25E and GigaVUE-TA400. This mode provides a 4 x 10Gb breakout option for 40Gb ports.
- **4x25Gb**—Specifies the **4x25Gb** port breakout mode. This mode applies to GigaVUE-TA200, GigaVUE-TA200E, GigaVUE-TA25, GigaVUE-TA25E and GigaVUE-TA400 nodes. This mode provides a 4 x 25Gb breakout option for 100Gb ports.
- 4x100Gb—Specifies 4x100Gb port breakout mode. This mode applies to
 GigaVUE-TA400 nodes. This mode provides a 4x100Gb breakout option for 400Gb ports
- **none**—Specifies no port breakout mode. This is the default mode for GigaVUE TA Series nodes.

Any of the 100Gb ports on the GigaVUE-TA100 (1/1/c1 to 1/1/c32), the first 32 ports on the GigaVUE-TA200 and GigaVUE-TA200E (1/1/c1 to 1/1/c32), the eight ports on GigaVUE-TA25 (1/1/c1...1/1/c8) or any ports in GigaVUE-TA400 can operate at 40Gb with QSFP+ SR transceivers.

A 40Gb port can be broken out into four 10Gb ports, called subports. In GigaVUE-TA25 only the ports c1 and c5 support 4 x10G breakout mode. The subports will all have the same speed (10Gb). Subports will have x1 to x4 appended to their port ID, for example, when port 1/1/c2 on GigaVUE-TA100 is configured to 4x10G mode, the subports will be: 1/1/c2x1, 1/1/c2x2, 1/1/c2x3, and1/1/c2x4.

In **4x10Gb** mode, the subports can function as network, tool, stack, circuit and hybrid ports. GigaStream port members can be activated in the tool, stack, and hybrid port types. Subports on GigaVUE-TA100, GigaVUE-TA200, GigaVUE-TA200E and GigaVUE-TA400 can also function as stack ports.

- The maximum number of 10Gb subports on a GigaVUE-TA100 is 128 (32 x 4).
- The maximum number of 10Gb subports on a GigaVUE-TA200 and GigaVUE-TA200E is 128 (32 x 4).
- The maximum number of 10Gb subports on GigaVUE-TA25 is 8 (2 x 4)
- The maximum number of 10Gb subports on GigaVUE-TA25E is 32 (8x 4)
- The maximum number of 10Gb subports on a GigaVUE-TA400 is 128 (32 x 4)

The 100Gb QSFP28 ports (1/1/c1 to 1/1/c10 and 1/1/c23 to 1/1/c32) on the GigaVUE-TA200, GigaVUE-TA200E and GigaVUE-TA25 can be broken out into four 25Gb ports, called subports. In GigaVUE-TA25 only the ports c1 and c5 support **4 x25Gb** breakout mode. The subports will all have the same speed (25Gb). Subports will have x1 to x4 appended to their port ID, for example, when port 1/1/c2 on GigaVUE-TA200 is configured to 4x25G mode, the subports will be: 1/1/c2x1, 1/1/c2x2, 1/1/c2x3, and 1/1/c2x4.

- The maximum number of 25Gb subports on a GigaVUE-TA200 and GigaVUE-TA200E is 128 (32 x 4).
- In GigaVUE-TA25 the maximum number of 25Gb subports is 8 (2x 4)
- The maximum number of 25Gb subports on GigaVUE-TA25E is 32 (8x 4)
- The maximum number of 25Gb subports on a GigaVUE-TA400 is 128 (32 x 4).

In **4x25Gb** mode, the subports can function as network, tool, stack, circuit and hybrid ports. GigaStream port members can be activated in the tool, stack, and hybrid port types. There are rules for configuring parent ports and subports. For more information, refer to the port command in the reference section of the GigaVUE-OS CLI Reference Guide. Once the port breakout mode has been configured, refer to Breakout Panels.

For further information refer to GigaVUE-OS Compatibility and Interoperability Matrix.

Breakout Panels

Breakout panels let you connect ports on a GigaVUE TA Series node to a tool or network port or TAP for port breakout or aggregation.

The following breakout panels are available:

- PNL-M341/PNL-M341T
- PNL-M343/PNL-M343T

Refer to G-TAP M Series Hardware Guide for details.

Getting Unpacked, Racked, Installed and Connected

The following steps are required to get a GigaVUE TA Series Traffic Aggregator mounted and running:

Unpacking the GigaVUE TA Series Traffic Aggregator

- 1. Unpack the GigaVUE TA Series Traffic Aggregator and inspect the box it was shipped in. If the carton was damaged, please file a claim with the carrier who delivered it.
- 2. Remove the protective shipping covers and screws. Save the protective shipping covers and replace the screws in the holes on the system so that they are easily saved in case you need to ship the system again.
- 3. Next, select a suitable location for the rack unit that will hold the GigaVUE TA Series Traffic Aggregation node. Choose a location that is clean, dust free, and well ventilated. You will need access to a grounded power outlet. Avoid areas where heat, electrical wire, and electromagnetic fields are generated.
- 4. Plan for enough clearance in front of a rack so you can open the front door completely (approximately 25in) and enough clearance in the back of the rack to allow sufficient airflow.

Rack-Mounting the GigaVUE TA Series

Safety Precautions

There are a wide variety of racks available on the market. Consult the instructions provided by the rack vendor for detailed mounting instructions before installing the GigaVUE TA Series Traffic Aggregation node.

Note: Before rack-mounting the GigaVUE TA Series, please read the following safety precautions:

- Install any stabilizers provided for the rack before installing the chassis. Unsecured racks can tip over.
- Install boxes in the rack from the bottom up with the heaviest boxes at the bottom.
- Ensure adequate ventilation to the systems installed in the rack.

This section describes how to rackmount the GigaVUE TA Series Traffic Aggregation node in a standard 1RU rack space using the hardware provided with the chassis. The node mounts in an EIA-standard 19in or 24in telco rack or equipment cabinet, up to 39in deep.

Rack Mounting GigaVUE-TA25E

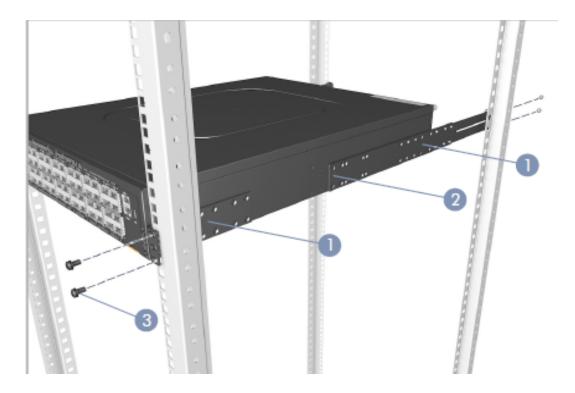
The GigaVUE-TA25E consists a Rack mounting kit which has 2 front-post brackets, 2 rearpost brackets, 20 screws, and 2 ear-locking screws.

To rack mount the chassis do the following:

Attach the Brackets

- 1. Attach each of the front- and rear-post brackets to the node using four of the included bracket screws.
- 2. Use an additional two screws to secure each of the rear-post brackets at the mid-point on the sides of the node.
- 3. Use the screws and cage nuts supplied with the rack to secure the node in the rack.

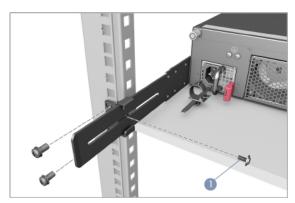




Caution: Installing the switch in a rack requires two people. One person should position the switch in the rack, while the other person secures it using the rack screws.

Adjust Rear-Post Bracket Ears

1. Lock the position of the rear-post bracket ears using the included position-locking screws. You can also adjust the rear-post bracket ears to fit different rack depths from 56 cm to 75 cm.



Basic Connections and Configuration

This chapter describes how to establish your first configuration session with the GigaVUE TA Series Traffic Aggregator and set the basic initial configuration options necessary to get you up and running.

Refer to the following sections for details:

Grounding the GigaVUE-TA25E

To ground the GigaVUE-TA25E do the following:

- 1. .Ensure the rack is properly grounded and in compliance with ETSI ETS 300 253. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
- 2. Attach the grounding wire (#14 AWG) to the grounding point on the switch rear panel. Then connect the other end of the wire to rack ground.
- 3. For spare grounding cable, refer to Edgecore part number 120500000787A.



Caution: The earth connection must not be removed unless all supply connections have been disconnected.

Avoid Electrostatic Damage!

IMPORTANT: Always take precautions to avoid electrostatic damage:

- Always use an ESD-preventive wrist or ankle strap and ensure that it makes good skin contact. The strap can be connected to one of the following:
 - o Captive installation screws on chassis.
 - Any unpainted surface on the chassis.
- Avoid contact between the cards and clothing. The wrist strap protects only the chassis from ESD voltages on the body. ESD voltages on clothing can still cause damage.

Connecting Power to the GigaVUE®TA Series

The procedure below describes how to supply power to the GigaVUE-TA25E node.

1. Plug an approved C13 power cable (C15 power cable for GigaVUE-TA25E) into each of the power supplies at the rear of the GigaVUE-TA25E as shown in Figure 3 Connecting AC Power to Connecting Power to the GigaVUE®TA Series.

NOTE: For information on connecting the optional DC power supplies, Refer to Connecting -48V DC Power Supplies.



Figure 3 Connecting AC Power

2. Plug the other end of the power cable(s) into a power source that can supply adequate power.

Note: If you are using the optional second power supply provided with the node, plug the two power supplies into separate circuits for optimal power protection.

For information on the GigaVUE TA Series power requirements, refer to Power Requirements.

NOTE: To avoid disk corruption, please ensure the "reload halt" command is executed before an ungraceful power shutdown or power supply module removal.

Note: The GigaVUE TA Series does not have power switches – once you connect the system to power, it automatically powers on.

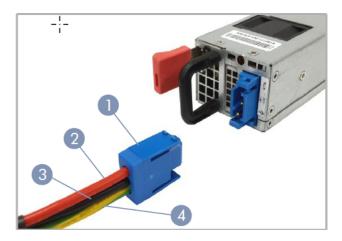
3. Power is turned ON when the unit is plugged in, and turned off when the unit is unplugged.

Note: Once the power supply is powered OFF, wait for 1 minute (60 seconds) before powering the supply ON for GigaVUE TA Series.

Refer to Connecting Serial Console and Mgmt Ports for information on how to connect to the GigaVUE TA Series command-line interface (CLI).

Connecting -48V DC Power Supplies

This section provides instructions for connecting a 48V DC input to the GigaVUE-TA25E: Connect an external DC power source to the PWR modules.



- 1. Positronic PLA03F7000/AA connector
- 2. DC Return (Red)
- 3. -36 -72 VDC (Black)
- 4. Ground (Yellow)

Caution: Use a UL/IEC/EN 60950-1 certified power supply to connect to a DC converter, and a #14 AWG (for -36 VDC to -72 VDC PSU) wire to connect to a DC PSU.

Attention: Utilisez une alimentation certifiée UL/IEC/EN 60950-1 pour le connecter à un convertisseur CC et un câble AWG #14 (pour -36 VDC à -72 VDC) pour vous connecter à une alimentation CC.

Cautions for Power and Ground connections

Caution: Class I Equipment.

The GigaVUE TA Series equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

Caution: GigaVUE-TA25E.

The -48 to -60 VDC hot-plug power supply is not intended for direct connection to the DC supply branch circuit. It only connects this power supply to a certified DC source that provides an independent over current-protected output for each DC power supply. Each output over current-protected device in the PDU must be suitable for interrupting fault current available from the DC power source and must be rated no more than 40A.

It must connect the power supply ground screw located on the front of the power supply to a suitable ground (earth) terminal: 8 AWG. This terminal must be connected to a suitable building ground (earth) terminal. **Do Not** rely on the rack or cabinet chassis to provide adequate ground (earth) continuity.

This product is intended to be installed in restricted access area. It should be accessible to skilled and instructed persons with proper authorization. Access should be controlled by using a lock or tool and key, or other means of security, and should be controlled by the authority responsible for the location. Access can only be gained by service persons or by users who have been instructed the reasons for the restrictions applied to the location and have been instructed any precautions that shall be taken. **NEVER** open the equipment and/or switch the plug-in power supplies and fan tray modules. For safety reasons, the equipment should only be opened and maintained by qualified service persons/ skill persons.

CAUTION: TO COMPLETELY REMOVE POWER FROM THE UNIT IN ORDER TO AVOID







Caution: The insulation of the protective earthing conductor shall be green-and-yellow.

Caution: When installing DC Power to GigaVUE-TA25E, a Skilled Person is needed to connect the Power.

Cable Suggestion to use VW-1, 600V, 105 degree C, tightening torque: 13.88/1.57 (lb-in/N.m), Wire Range: 8-18AWG, Wire Type: CU's power cable (wire).

Caution: The output of certified DC source must be grounded.

Précautions relatives au raccordement à l'alimentation et à la terre

Attention: Équipement de Classe I.

L'équipement GigaVUE série TA doit être mis à la terre. La fiche électrique doit être branchée à une prise de courant correctement raccordée à la terre.

Une prise de courant dont le câblage est incorrect pourrait causer la présence de tensions dangereuses sur les éléments métalliques accessibles.

Attention : GigaVUE-TA25E

L'alimentation électrique 48 à 60 V CC enfichable à chaud n'est pas destinée au raccordement direct au circuit de dérivation d'alimentation CC. Elle raccorde uniquement cette alimentation électrique à une source CC certifiée qui fournit une sortie indépendante protégée contre les surintensités à chaque alimentation électrique CC. Chaque dispositif de sortie protégé contre les surintensités de l'unité d'alimentation électrique doit pouvoir interrompre un courant de défaut provenant de la source d'alimentation CC et doit présenter une intensité nominale maximale de 40 A. Il doit raccorder la vis de mise à la terre de l'alimentation électrique, située à l'avant de l'alimentation électrique, à une borne de terre (masse) appropriée : 8 AWG. Cette borne doit être raccordée à une borne de terre (masse) appropriée du bâtiment. N'utilisez pas le châssis du rack ou de l'armoire pour assurer une continuité de mise à la terre (masse) adéquate. Ce produit est destiné à être installé uniquement dans une zone à accès restreint. Il n'est accessible qu'aux personnes qualifiées et formées disposant d'une autorisation appropriée. L'accès est sécurisé au moyen d'une serrure ou d'un outil et d'une clé, ou de tout autre moyen de sécurité, et contrôlé par l'autorité responsable du site. L'accès n'est autorisé qu'au personnel de service ou aux utilisateurs qui ont été formés aux raisons des restrictions appliquées à l'emplacement et aux précautions qui doivent être prises. N'ouvrez jamais l'équipement et/ou ne commutez jamais les alimentations électriques enfichables et les modules de plateaux de ventilateurs. Pour des raisons de sécurité, l'équipement ne doit être ouvert et maintenu que par des personnes formées/du personnel de service qualifié.

Attention : POUR RETIRER COMPLÈTEMENT L'ALIMENTATION DE L'APPAREIL AFIN D'ÉVITER UN « RISQUE DE DÉCHARGE », COUPEZ D'ABORD L'ALIMENTATION, PUIS RETIREZ LES CÂBLES ÉLECTRIQUES





Attention: L'isolement du conducteur de terre de protection doit être vert et jaune.

Attention: lors de l'installation de l'alimentation CC sur GigaVUE-TA25E, une personne qualifiée est nécessaire pour connecter l'alimentation Câble; suggestion d'utiliser VW-1, 600V, 105 degrés C, couple de serrage: 13.88/1.57 (lb-in/N.m), gamme de fils: 8-18 AWG, type de fil: câble d'alimentation de CU (fil).

Attention : La sortie de la source DC certifiée doit être mise à la terre

Warning: Fiber Optic Port Safety

GigaVUE TA Series nodes are intend to installed in an UL certified Optical Transceiver Module, Laser Class I. When using a fiber optic port, never look at the transmit laser while it is powered on. Also, never look directly at the fiber port and fiber cable ends when they are powered on. If need further assistance, please contact Gigamon Technical Support for further information.

Avertissement : Sécurité du port fibre optique

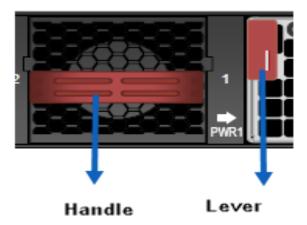
Les nœuds GigaVUE série TA sont destinés à être installés dans un module émetteur-récepteur optique certifié UL, classe de laser 1. En cas d'utilisation d'un port fibre optique, ne regardez jamais le laser émis pendant qu'il est sous tension. De même, ne regardez jamais directement le port fibre et les extrémités des câbles en fibre lorsqu'ils sont sous tension. Pour tout besoin d'aide supplémentaire, veuillez contacter Gigamon Technical Support afin d'obtenir de plus amples informations.

Replacing Fans

Fans are field-replaceable. If a fan fails, you can replace it. Identify the fan that failed, and replace it with a working fan using the procedures in this section.

To remove a fan:

1. Locate lever and handle as shown below:



- 2. Push lever towards handle.
- 3. Pull on handle to remove the fan from the slot.

To insert a fan:

- 1. Place fan in empty slot.
- 2. Use handle to slide fan into slot.
- 3. When fan is fully inserted, it locks in place.

Note: The system will not power up without fan trays.

Connecting Serial Console and Mgmt Ports

To make basic connections (serial console and Mgmt ports):

1. Locate the DB9-to-RJ45 serial cable provided with the GigaVUE TA Series TA Series node. This cable is called a *console cable*.

Note: This cable is Cisco-compatible.

- 2. Connect the RJ45 end of the console cable to the **console** port.
- 3. Connect the DB9 end of the console cable to a PC's COM port.
- 4. Connect a standard Ethernet cable (Cat5 or better) to the 1000 Mgmt port.
- 5. Connect the other end of the ethernet cable to an Ethernet network.

Note: If you have connected GigaVUE-TA200E and GigaVUE-TA25E to serial or IPMI consoles, it is recommended that you enable BIOS passwords for the devices.

Configuring Basic Settings

This section describes how to perform the initial configuration of basic settings over a serial terminal connection to the console port.

The system administrator must initially log in with a default **admin** account using a default password, and then must immediately change the password through the **jump-start** script. Refer to Access the Command-Line Interface over the console Port.

Once you have used the console port to configure the Mgmt port's network properties, you can configure the GigaVUE TA Series node remotely using the Mgmt port's network connection.

Note: The same commands are available in the command-line interface regardless of how you connect.

Access the Command-Line Interface over the console Port

- 1. Make the basic power and console cable connections described in Connecting Serial Console and Mgmt Ports and power on the GigaVUE TA Series node.
- 2. Start a terminal application on the PC. Common terminal applications include TeraTerm, PuTTY, and Hyperterminal.
- 3. Select the COM port connected to the console cable attached to the console port. For example, **COM1**.
- 4. Configure the port settings for the console connection as follows:
 - Bits per second 115,200

- o Data bits 8
- Parity None
- o Stop bits −1
- Flow control None

If you experience problems connecting to a Cisco Terminal Server, try changing the console Port's speed to 9600 bps using the procedure in Changing the Console Port's Speed and reconnecting.

Note: The GigaVUE-TA100, GigaVUE-TA200 and GigaVUE-TA25 support only a fixed serial baud rate of 115,200bps.



Figure 4 Setting COM Port Properties for the Console Connection

- 5. Start the terminal connection. You may need to press **Enter** a few times before you see the **login:** prompt.
- 6. Log in to the command-line interface with the following default user account and password:

User:admin

Password:admin123A!

The **configuration jump-start** automatically starts and forces a password change. The system administrator must change the password on the default **admin** account through the **jump-start** script. The default password (admin123A!) is no longer allowed. Refer to Run the Jump-Start Script for details.

A password must meet the following standards:

- include 8-30 characters
- include at least one numeral
- include at least one upper case letter
- include at least one lower case letter
- include at least one special character (for example, !, @, #, \$, %, ^, &, or * –, ASCII 0x21, 0x2F, 0x3A, 0x40, 0x5B, 0x5F, 0x7B, 0x7E)

Must not include the user name or parts of full-name.

At the Admin password? prompt in the **jump-start** script, enter a new password that meets the standards, then confirm the password.

Changing the Console Port's Speed

By default, the console port operates at 115,200bps. You can change the speed of the console port to 9600bps with the **serial baudrate <9600 | 115200>** command.

Keep in mind the following points when changing the console port's speed:

- After changing the console port's speed, you must save the active configuration and reload the system for the change to take effect.
- After setting the console port to 9600bps, the u-boot output will appear correctly on the connected serial console. However, you will need to press the spacebar once or twice for the CLI login prompt to appear.
- You can use the **show serial baudrate** command to view the currently configured console port speed.

Run the Jump-Start Script

Gigamon provides the GigaVUE TA Series nodes with a **jump-start** script that walks you through the process of configuring basic settings. Run this script as follows:

1. Switch to **Config** mode.

There are three command entry modes, each with increasingly powerful rights – **Standard**, **Enable**, and **Config**. The jump-start script is only available in config mode:

a. Type **en <Enter>** to switch to Enable mode.

The system prompt changes from **[hostname]** > to **[hostname]** #.

b. Type **config t <Enter>** to switch to Config mode.

The system prompt changes from [hostname] # to [hostname] (config) #.

2. Reset the terminal settings to match the current window with the following command:

terminal resize

- 3. Type **config jump-start** to run the jump-start script.
- 4. Follow the jump-start script's prompts to set each of the settings listed below.

Note: If you change your mind about a particular setting, you'll have a chance to change it at the end of the script.

Hostname	The hostname appears in the system prompt and is used to
	identify the chassis in SNMP traps.

Management Port Network Settings	Use either DHCP or specify a static IP address and netmask. If you do not use DHCP, you are prompted to configure the following additional options: • Default Gateway Supply the IP address of the default gateway for the node. • DNS Server Supply the IP address of the DNS server for the node. Note that a valid DNS server is required for successful use of TACACS+. • Domain Name Supply the domain name for the node (for example, mycompany.com).
Default Gateway	Supply the IP address of the default gateway for the system.
DNS Server	Supply the IP address of the DNS server for the system. Note that a valid DNS server is required for successful use of TACACS+.
Domain Name	Supply the domain name for the system (for example, mycompany.com).
Enable IPv6?	You can enable the use of IPv6 for the management port. IPv6 is used in addition to IPv4 if you enable this option. If you enable the IPv6 you have the option of enabling IPv6 autoconfiguration or specifying a static address.
Security Settings	Enable the following security settings:
	secure cryptography mode
	■ secure passwords mode
	minimum password length Refer to the GigaVUE-OS CLI Reference Guide for information on security.
Admin Password	The password for the admin account must be changed to a non-default password.
Cluster Enable?	Enable cluster support if this node will be a part of a cluster of connected GigaVUE TA Series nodes. If you enable cluster support, the jump-start script prompts you to supply the Cluster ID, Cluster Name, and Cluster Mgmt Virtual IP Address. You can join an existing cluster by supplying values that match existing settings.
	If clustering is enabled, you will not be prompted for a box ID in the next step.
	Refer to the <i>GigaVUE-OS CLI Reference Guide</i> for information on setting up a cluster.
	Note : Connecting a Traffic Aggregator to a cluster requires a license.

Box ID for the Node	Supply a numerical box ID for the node. This box ID is used to identify network/tool ports in the node – the format is box ID/slot ID/port ID.
	You will be prompted for a box ID only if clustering was not enabled in the previous step.

- 5. Review your settings. You can change a setting by specifying its listed line number and re-entering the setting.
- 6. When you are satisfied with your settings, exit the script as prompted. The system automatically saves your settings.
- 7. Restart the system with the **reload** command.

Need to Change Any Settings?

If you need to change any of the settings you made in the jump-start script, you can either run the script again or change individual settings using the following commands in the Configure command mode:

- Use the **hostname** command to change the system's hostname.
- Use the **interface eth0** command to reconfigure or fine-tune Mgmt port settings, including basic IP settings (DHCP or static address and subnet mask) and physical parameters (duplex, MTU, and speed).
- Use the ip command to change the default gateway, DNS server, and domain name.
- You can also use the **username admin password <password>** command to change the **admin** user's password. Refer to Changing the admin Account Password.

Refer to Completing the Initial Setup for a quick summary of the available GigaVUE TA Series commands for GigaVUE TA Series nodes.

Port Licensing

GigaVUE-TA25E have all ports enabled. Additional ports are available through licenses for GigaVUE-TA25EA, GigaVUE-TA25EB, and GigaVUE-TA25E HTL chassis.

Contact your Sales representative for port licenses.

The following sections provide an explanation of GigaVUE-TA25EAGigaVUE-TA25EB, and GigaVUE-TA25E HTL Chassis.

GigaVUE-TA25EA

GigaVUE-TA25EA is a variant of GigaVUE-TA25E, it is available with only the first twenty-four (24) 25Gb/10Gb/1Gb ports and four (4) 100Gb/40Gb ports active.

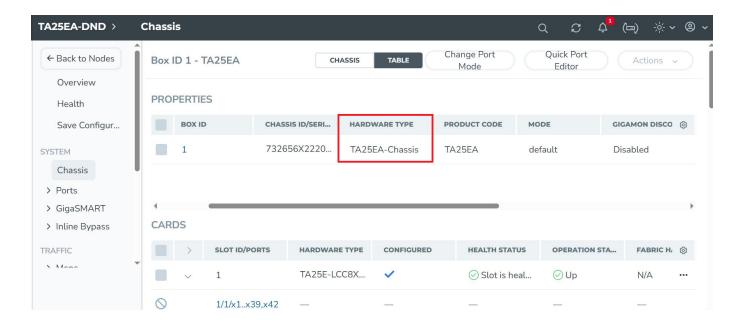
Use the upgrade license to activate the ports provided in the table below.

Upgrade License	Active Ports
UPG-TAX20E-SW-TM	X25 - X48, C5 - C8

In a GigaVUE-TA25EA Chassis, the hardware type is TA25EA-Chassis. Use the following CLI command to display the GigaVUE-TA25EA chassis information:

```
(config) # show chassis
Chassis:
  Box ID
                    : 1*
  Hostname
                    : TA25EA
  Config
                    : yes
 Mode
                    : default
  Oper Status
                    : up
                    : TA25EA-Chassis
 HW Type
  Vendor
                    : Gigamon
  Product Code
                    : TA25EA
  Serial Num
                    : 732656X2220342
  HW Rev
                    : 1.0
  SW Rev
                    : 6.11.00
  GDP
                    : disable
  Tag Mode
                    : double
```

To view the same in GigaVUE-FM, on the left navigation pane, click (Inventory). Select Physical > Nodes. Click Cluster ID. The GigaVUE-TA series overview page appears. Select System > Chassis. Click the TABLE tab. The properties and cards appear as shown below.

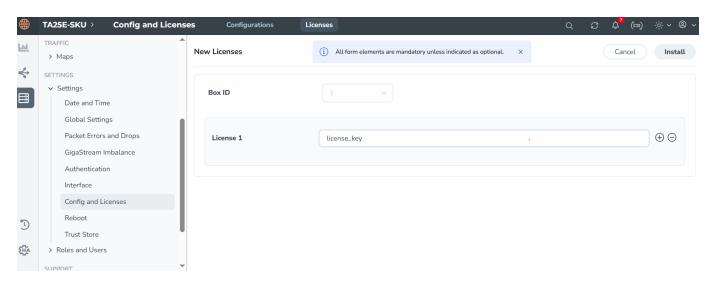


Enabling Additional Ports for GigaVUE-TA25EA

Contact your Sales Representative for information on obtaining a license key. Once you have obtained the license key for additional ports on GigaVUE-TA25EA, use the following command:

```
(config) # license install box-id <box ID> key license key>
```

To view the license in GigaVUE-FM, on the left navigation pane, click (Inventory). Select **Physical** > **Nodes**. Click **Cluster ID**. The GigaVUE-TA series overview page appears. Select **Settings** > **Config and Licenses**. Click the **Licenses** tab. Click **New** to create a new license. The page appears as shown below.



where

- box ID is the box ID of the GigaVUE TA Series node.
- license key is the license key obtained for the purposes of enabling additional ports. Use the following procedure to install the licenses in the devices:
 - 1. Switch to **Configure** mode.

The GigaVUE TA Series node provides three command entry modes, each with increasingly powerful rights – **Standard**, **Enable**, and **Configure**. The jump-start script is only available in Configure mode:

a. Type **en <Enter>** to switch to Enable mode.

The system prompt changes from [hostname] > to [hostname] #.

b. Type **config t <Enter>** to switch to Config mode.

The system prompt changes from [hostname] # to [hostname] (config) #.

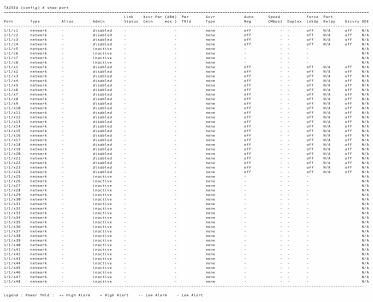
2. Reset the terminal settings to match the current window with the following command:

terminal resize

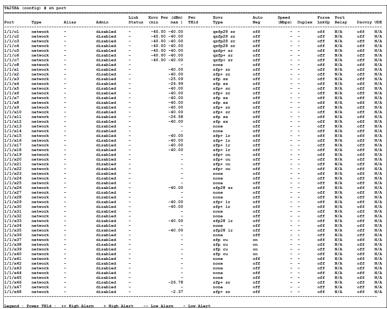
3. Use the **port** command with the **admin** argument to enable ports. For example, the following two commands enable all available ports on a fully licensed GigaVUE-TA25EA:

(config) # port 1/1/c1..c8 params admin enable (config) # port 1/1/x1..x48 params admin enable

Show port output without upgrade license for GigaVUE-TA25EA



Show port output with upgrade license for GigaVUE-TA25EA to activate forty eight (48) 25Gb/10Gb/1Gb ports and eight (8) 100Gb/40Gb ports



Note: Only Inactive ports are unlicensed ports.

- 4. Enter the **show license** command after enabling an additional ports to check the applied port license.
- 5. Save your changes so that ports come up automatically at the next reboot write memory.

GigaVUE-TA25EB

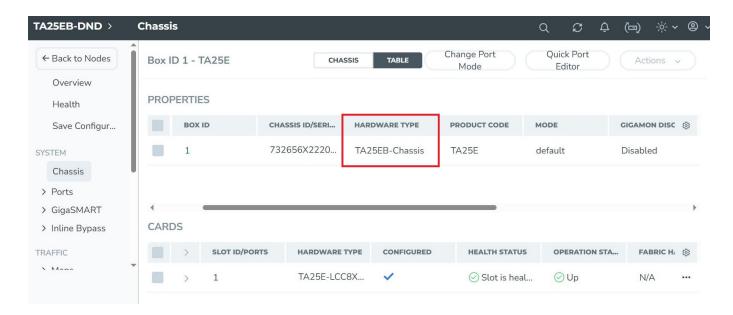
GigaVUE-TA25EB is a variant of GigaVUE-TA25E, it is available with only the first twelve (12) 25Gb/10Gb/1Gb (X1-X12) ports and two (2) 100Gb/40Gb (C1-C2) ports active. Use the upgrade license to activate the ports provided in the table below.

Upgrade License	Active Ports
UPG-TAX20EB-SW-TM	X13 - X24, C3 - C4
UPG-TAX20E-SW-TM	X25 - X48, C5 - C8

In a GigaVUE-TA25EB Chassis, the hardware type is TA25EB-Chassis. Use the following CLI command to display the GigaVUE-TA25EB chassis information:

(config) # show chassis Chassis: Box ID : 1* Hostname : TA25EB Config : yes : default Mode Oper Status : up HW Type : TA25EB-Chassis : Gigamon Vendor Product Code : TA25E Serial Num : 732656X2220342 HW Rev : R01 SW Rev : 6.11.00 GDP : disable Tag Mode : double

To view the same in GigaVUE-FM, on the left navigation pane, click (Inventory). Select Physical > Nodes. Click Cluster ID. GigaVUE-TA series overview page appears. Select System > Chassis. Click the TABLE tab. The properties and cards appear as shown below.

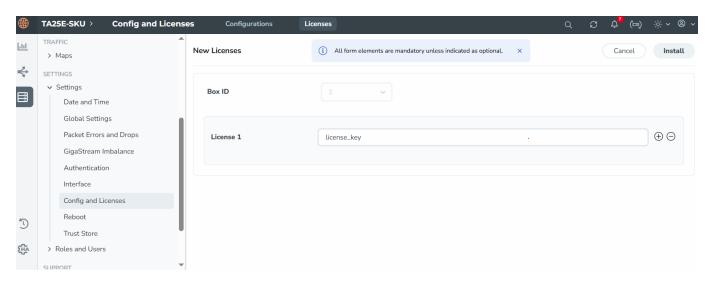


Enabling Additional Ports for GigaVUE-TA25EB

Contact your Sales Representative for information on obtaining a license key. Once you have obtained the license key for additional ports on GigaVUE-TA25EB, use the following command:

(config) # license install box-id <box ID> key ense key>

To view the license in GigaVUE-FM, on the left navigation pane, click (Inventory). Select Physical > Nodes. Click Cluster ID. The GigaVUE-TA series overview page appears. Select Settings > Config and Licenses. Click the Licenses tab. Click New to create a new license. The page appears as shown below.



where

- box ID is the box ID of the GigaVUE TA Series node.
- license key is the license key obtained for the purposes of enabling additional ports. Use the following procedure to install the licenses in the devices:
 - 1. Switch to **Configure** mode.

The GigaVUE TA Series node provides three command entry modes, each with increasingly powerful rights – **Standard**, **Enable**, and **Configure**. The jump-start script is only available in Configure mode:

a. Type **en <Enter>** to switch to Enable mode.

The system prompt changes from [hostname] > to [hostname] #.

b. Type **config t <Enter>** to switch to Config mode.

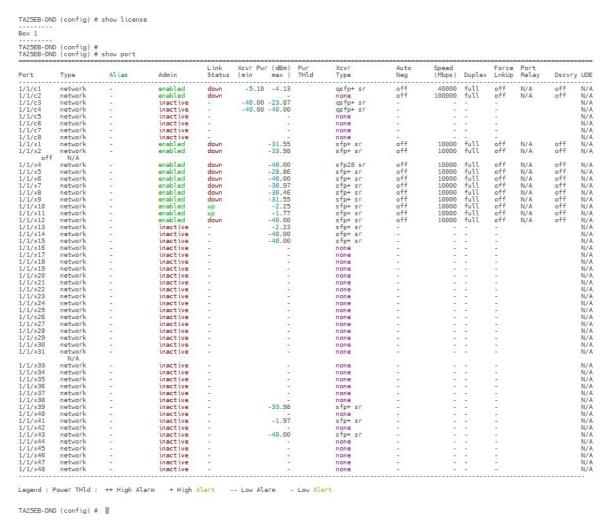
The system prompt changes from [hostname] # to [hostname] (config) #.

2. Reset the terminal settings to match the current window with the following command:

terminal resize

3. Use the **port** command with the **admin** argument to enable ports. For example, the following two commands enable all available ports on a fully licensed GigaVUE-TA25EB:

(config) # port 1/1/c1..c8 params admin enable
(config) # port 1/1/x1..x48 params admin enable
Show port output without upgrade license for GigaVUE-TA25EB



Show port output with upgrade license for GigaVUE-TA25EB to activate twenty-four (24) 25Gb/10Gb/1Gb ports and four (4) 100Gb/40Gb ports



Show port output with upgrade license for GigaVUE-TA25EB to activate forty-eight (48) 25Gb/10Gb/1Gb ports and eight (8) 100Gb/40Gb ports



Note: Only Inactive ports are unlicensed ports.

- 4. Enter the **show license** command after enabling an additional ports to check the applied port license.
- 5. Save your changes so that ports come up automatically at the next reboot write memory.

GigaVUE-TA25E HTL Chassis

The GigaVUE-TA25E HTL chassis has forty-eight (48) 25Gb/10Gb/1Gb and eight (8) 100Gb/40Gb ports that are inactive by default.

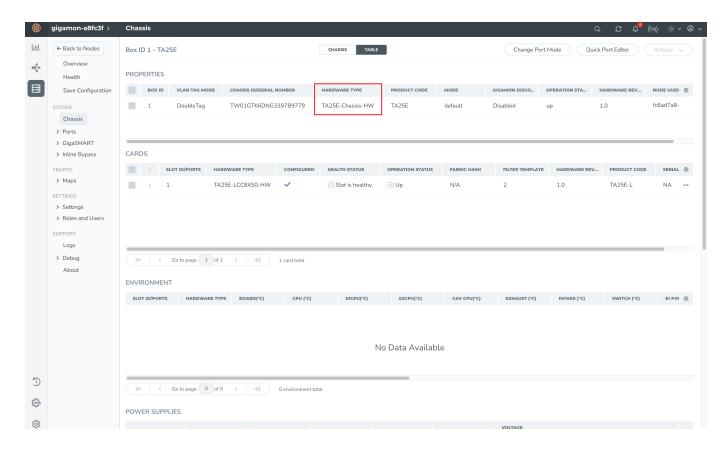
Use the GVOS/upgrade license to activate/upgrade the ports provided in the table below.

GVOS License	Upgrade Licenses
GVS-TAX20E-SW-TM : X1 - X48 + C1-C8	No upgrade license is required
GVS-TAX20EA-SW-TM : X1 - X24 + C1-C4	UPG-TAX20E-SW-TM : X25 - X48 + C5-C8
GVS-TAX20EB-SW-TM : X1 - X12 + C1-C2	UPG-TAX20EB-SW-TM : X13 - X24 + C3 - C4
	UPG-TAX20E-SW-TM : X25 - X48 + C5 - C8

In a GigaVUE-TA25E HTL Chassis, the hardware type is TA25E-Chassis-HW. Use the following CLI command to display the GigaVUE-TA25E HTL chassis information:

(config) # show chassis Chassis: : 3* Box ID : TA25E-AVMC-DND Hostname Config : yes Mode : default Oper Status : up HW Type : TA25E-Chassis-HW Vendor : Gigamon Product Code : TA25E Serial Num : 732656X2240165 HW Rev : R01 SW Rev : 6.11.00 GDP : disable Tag Mode : double

To view the same in GigaVUE-FM, on the left navigation pane, click (Inventory). Select Physical > Nodes. Click Cluster ID. The GigaVUE-TA series overview page appears. Select System > Chassis. Click the TABLE tab. The properties and cards appear as shown below.

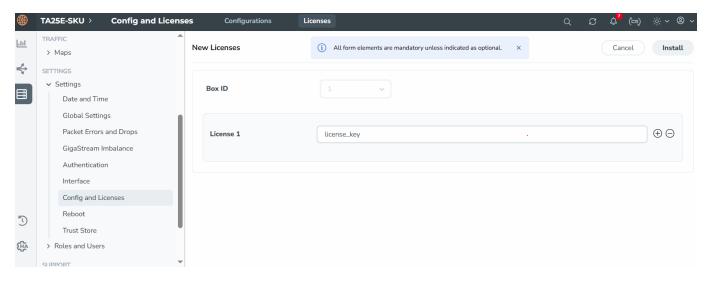


Enabling Additional Ports for GigaVUE-TA25E HTL Chassis

Contact your Sales Representative for information on obtaining a license key. Once you have obtained the license key for additional ports on GigaVUE-TA25E HTL chassis, use the following command:

(config) # license install box-id <box ID> key <license key>

To view the license in GigaVUE-FM, on the left navigation pane, click (Inventory). Select Physical > Nodes. Click Cluster ID. The GigaVUE-TA series overview page appears. Select Settings > Config and Licenses. Click the Licenses tab. Click New to create a new license. The page appears as shown below.



where

- box ID is the box ID of the GigaVUE TA Series node.
- license key is the license key obtained for the purposes of enabling additional ports. Use the following procedure to install the licenses in the devices:
 - 1. Switch to **Configure** mode.

The GigaVUE TA Series node provides three command entry modes, each with increasingly powerful rights – **Standard**, **Enable**, and **Configure**. The jump-start script is only available in Configure mode:

a. Type **en <Enter>** to switch to Enable mode.

The system prompt changes from **[hostname]** > to **[hostname]** #.

b. Type config t <Enter> to switch to Config mode.

The system prompt changes from [hostname] # to [hostname] (config) #.

2. Reset the terminal settings to match the current window with the following command:

terminal resize

3. Use the **port** command with the **admin** argument to enable ports. For example, the following two commands enable all available ports on a fully licensed GigaVUE-TA25E HTL chassis:

(config) # port 1/1/c1..c8 params admin enable (config) # port 1/1/x1..x48 params admin enable

Show port output without GVOS/upgrade license for GigaVUE-TA25E HTL chassis

ox 1															
	(config) #														
 Port		Alias	Admin	Link	Xcvr Pwr		Pwr THld	Xcvr		======= Auto Neg	Speed		Force		
	Type	ALIUS		Status	(min	max)		Туре		neg 	(Mbps)	Duplex		 Dscvry	
L/1/c1	network	-	inactive	-	-40.00	-23.67		qsfp+ s	r	-	-	-	-		N/
./1/c2	network	-	inactive	-		-		none		-	-	-	-		N/
./1/c3	network	-	inactive	-	-40.00	-40.00		qsfp+ s	r ·	-	-	-	-		N/
/1/c4	network	-	inactive	-		-		none		-	-	-	-		N/
/1/c5	network	-	inactive	-		-		none		-	-	-	-		N/
/1/c6	network	-	inactive	-		-		none		-	-	-	-		N/
/1/c7	network	-	inactive	-		-		none		-	-	-	-		N/
/1/c8	network	-	inactive	-		2 64		none		-	-	-	-		
/1/x1 /1/x2	network network	-	inactive inactive	-		-2.64 -2.41		sfp+ sr sfp+ sr		-	_	-	-		N/
/1/x2 /1/x3	network	-	inactive	-		-2.41		sfp+ sr		-	_	-	-		N/
/1/x3 /1/x4	network		inactive			-2.17		sfp+ sr		_					N/
/1/x4 ./1/x5	network	-	inactive			-26.78		sfp+ sr		_		_	_		N/
/1/x6	network	-	inactive	_		-40.00		sfp+ sr		_	_	_	_		N/
/1/x7	network	_	inactive	_		-40.00		sfp+ sr		_	_	_	_		N/
/1/x8	network	_	inactive	-		-2.74		sfp+ sr		_	_	_	_		N/
/1/x9	network	_	inactive	_		-40.00		sfp+ sr		_	_	_	_		N/
/1/x10	network	_	inactive	-		-40.00		sfp+ sr		-	_	_	-		N/
/1/x11	network	-	inactive	-		-40.00		sfp+ sr		-	_	-	-		N/
/1/x12	network	-	inactive	-		_		none		-	-	-	-		N/
/1/x13	network	-	inactive	-		-		none		-	_	-	-		N/
/1/x14	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x15	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x16	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x17	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x18	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x19	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x20	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x21	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x22	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x23	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x24	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x25	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x26	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x27	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x28	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x29	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x30	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x31 /1/x32	network		inactive			-		none			-				N/
/1/x32 /1/x33	network network		inactive inactive			_		none none		_	-				N/
/1/x33 ./1/x34	network		inactive			-		none			-	-	-		N/
/1/x34 /1/x35	network	-	inactive	-				none		_	-	_	_		N/
/1/x35 /1/x36	network	-	inactive	-		_		none		_	-	_	_		N/
/1/x37	network	_	inactive	_				none		_	_	_	_		N/
/1/x38	network	_	inactive	_		_		none		_	_	_	_		N/
/1/x39	network	_	inactive	_		_		none		-	_	_	_		N/
/1/x40	network	_	inactive	-		_		none		-	_	_	-		N/
/1/x41	network	-	inactive	-		_		none		-	_	-	-		N/
/1/x42	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x43	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x44	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x45	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x46	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x47	network	-	inactive	-		-		none		-	-	-	-		N/
/1/x48	network	-	inactive	-		_		none		-	-	-	-		N/

Refer to the above table to use the GigaVUE-TA25E and GigaVUE-TA25EA variants for the GVOS license.

GigaVUE-TA25EB variant explains the GVOS/upgrade license.

Show port output with GVOS license for GigaVUE-TA25EHTLchassis to activate twenty four (24) 25Gb/10Gb/1Gb ports and four (4) 100Gb/40Gb ports

ox 1														
A25E-SKL	J (config) #	show port												
ort	Type	Alias	Admin	Link Status	Xcvr Pwr (min	max)	THld	Xcvr Type	Auto Neg	Speed (Mbps)	Duplex		Relay	Dscvry UD
/1/c1	network	-	inactive	-	-40.00			qsfp+ sr	-	-	-	-		N/
/1/c2	network	-	inactive	-		-		none	-	-	-	-		N/
/1/c3	network	-	inactive	-	-40.00	-40.00		qsfp+ sr	-	-	-	-		N/
/1/c4	network	-	inactive	-		-		none	-	-	-	-		N/
/1/c5	network	-	inactive	-		-		none	-	-	-	-		N/
/1/c6	network	-	inactive	-		-		none	-	-	-	-		N/
/1/c7	network	-	inactive	-		-		none	-	-	-	-		N/
/1/c8	network	-	inactive	-				none	-	-	-	-		N/
/1/x1	network	-	inactive	-		-2.64		sfp+ sr	-	-	-	-		N/
/1/x2	network	-	inactive	-		-2.41		sfp+ sr	-	-	-	-		N/
/1/x3 /1/x4	network	-	inactive	-		-2.17 -2.19		sfp+ sr	-	-	-	-		N/ N/
/1/x4 /1/x5	network network	-	inactive inactive	-		-2.19		sfp+ sr sfp+ sr	-	-	-	-		N/
	network	-	inactive	-		-40.00		stp+ sr sfp+ sr	-	-	-	-		N/
/1/x6 /1/x7	network	-	inactive	-		-40.00		sfp+ sr	-	-		-		N/
/1/x8	network		inactive			-2.74		sfp+ sr		_				N/
/1/x8 /1/x9	network		inactive			-40.00		sfp+ sr			-	-		N/
/1/x10	network		inactive			-40.00		sfp+ sr		_		-		N/
/1/x11 /1/x11	network	_	inactive	_		-40.00		sfp+ sr	_	_	_	_		N/
/1/x12	network	_	inactive	_				none	_	_	_	_		N/
/1/x13	network		inactive	_		_		none	_	_	_	_		N/
/1/x14	network	_	inactive	-				none	_	_		_		N/
/1/x15	network	_	inactive	-		_		none	_	_	_	_		N/
/1/x16	network	_	inactive	-		_		none	_	_	_	_		N/
/1/x17	network	-	inactive	_		-		none	-	-	-	-		N/
/1/x18	network	-	inactive	-		_		none	-	-	-	-		N/
/1/x19	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x20	network	-	inactive	-		_		none	-	-	-	-		N/
/1/x21	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x22	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x23	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x24	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x25	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x26	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x27	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x28	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x29	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x30	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x31	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x32	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x33	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x34	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x35	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x36	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x37	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x38	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x39	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x40	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x41	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x42	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x43	network	-	inactive	-		-		none	-	-	-	-		N/ N/
/1/x44	network	-	inactive	-		-		none	-	-	-	-		
/1/x45	network	-	inactive	-		-		none	-	-	-	-		N/
/1/x46 /1/x47	network network	-	inactive	-		-		none none	-	-	-	-		N/
		-	inactive	-		-			-	-	-	-		
/1/x48	network	-	inactive	-		-		none	-	-	-	-		N/

Show port output with GVOS license for GigaVUE-TA25E HTL chassis to activate twelve (12) 25Gb/10Gb/1Gb ports and two (2) 100Gb/40Gb ports

ox 1															
		ımeters Star	t Date Expira	tion Date	Туре										
 V0S	GVOS		/01/23 2026/0:		Internal										
	J (config) #	show port													
				Link	Xcvr Pwr	(dBm)	Pwr	Xcvr	Auto	Speed		Force	Port		
ort	Туре	Alias	Admin	Status	(min	max)	THld	Type	Neg	(Mbps)	Duplex	LnkUp	Relay	Dscvry	UD
/1/c1	network	-	disabled	-	-40.00	-22.68		qsfp+ sr	off	-	-	off	N/A	off	N/
/1/c2	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/
/1/c3	network	-	inactive	-	-40.00	-40.00		qsfp+ sr	-	-	-	-			N/
/1/c4	network	-	inactive	-		-		none	-	-	-	-			N/
/1/c5	network	-	inactive	-		-		none	-	-	-	-			N/
/1/c6	network	-	inactive	-		-		none	-	-	-	-			N/
/1/c7 /1/c8	network network	-	inactive inactive	-		-		none none	-	-	-	-			N/
/1/c8 /1/x1	network		disabled			-2.62		sfp+ sr	off			off	N/A	off	N/
/1/x1 /1/x2	network	_	disabled	_		-2.44		sfp+ sr	off	_	_	off	N/A	off	N/
/1/x3	network	_	disabled	_		-2.16		sfp+ sr	off	_	_	off	N/A	off	N/
/1/x4	network	_	disabled	_		-2.19		sfp+ sr	off	_	_	off	N/A	off	N/
/1/x5	network	-	disabled	-		-26.78		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x6	network	-	disabled	-		-40.00		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x7	network	-	disabled	-		-40.00		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x8	network	-	disabled	-		-2.70		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x9	network	-	disabled	-		-40.00		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x10	network	-	disabled	-		-40.00		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x11	network	-	disabled	-		-40.00		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x12	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/
/1/x13 /1/x14	network network	-	inactive inactive	-		-		none none	-	-	-	-			N/
/1/x14 /1/x15	network	-	inactive	-				none	-	-	-	-			N/
/1/x16	network		inactive	_		_		none	_			_			N/
/1/x17	network	_	inactive	_		_		none	_	_	_				N/
/1/x18	network	_	inactive	_		_		none	-	-	-	-			N/
/1/x19	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x20	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x21	network	-	inactive	-		-		none	-	-	-	-			N,
/1/x22	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x23	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x24	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x25	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x26	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x27 /1/x28	network network	-	inactive inactive	-		-		none none	-	-	-	-			N/
/1/x29	network	-	inactive	-		_		none	-	_	-	-			N/
/1/x30	network	_	inactive	_		-		none	-	_	-	-			N/
/1/x30 /1/x31	network	-	inactive	_		_		none	_	_	_	_			N/
/1/x32	network	-	inactive	-		_		none	-	_	-	-			N/
/1/x33	network	-	inactive	-		_		none	-	_	-	-			N/
/1/x34	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x35	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x36	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x37	network	-	inactive	-		-		none	-	-	-	-			N,
/1/x38	network	-	inactive	-		-		none	-	-	-	-			N.
/1/x39	network	-	inactive	-		-		none	-	-	-	-			N,
/1/x40	network	-	inactive	-		-		none	-	-	-	-			N,
1/x41	network	-	inactive	-		-		none	-	-	-	-			N.
1/x42 1/x43	network network	-	inactive inactive			-		none none		_		-			N.
1/x43 1/x44	network	-	inactive					none	-	-	-	-			N.
1/x44 /1/x45	network	-	inactive					none	-	_	-	_			N,
1/x45 /1/x46	network	-	inactive	-		_		none	-	_	_	_			N.
1/x47	network	_	inactive	_		_		none	_	_	_	_			N.
/1/x48	network	-	inactive	-		_		none	-	_	-	-			N.

Show port output with upgrade license for GigaVUE-TA25E HTL chassis to activate additional twelve (12) 25Gb/10Gb/1Gb ports and two (2) 100Gb/40Gb ports (total 24 25Gb/10Gb/1Gb ports + 4 100Gb/40Gb ports)

ox 1															
			Date Expiratio												
POR	T24 -	2025/0	2/05 2026/02/0	95 I	nternal										
			t Date Expirat												
GVOS GVOS12 2025/01/23 2026/01/22 Intern TA25E-SKU (config) # show port															
ort	Туре	Alias	Admin	Link Status	Xcvr Pwr (min	(dBm)	Pwr THld	Xcvr Type	Auto Neg	Speed (Mbps)	Duplex		Relay	Dscvry	
/1/c1	network	-	disabled		-40.00			qsfp+ sr	off	-	-	off	N/A	off	N/
/1/c2	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/
/1/c3	network	-	disabled	-	-40.00	-40.00		qsfp+ sr	off	-	-	off	N/A	off	N/
/1/c4	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/
/1/c5 /1/c6	network network	-	inactive inactive	-		-		none none	-	-	-	-			N/
/1/c7	network	-	inactive	_		-		none	-	_	-	-			N/
/1/c8	network	_	inactive	-				none	-	-	_	_			N/
/1/x1	network	-	disabled	-		-2.63		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x2	network	-	disabled	-		-2.43		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x3	network	-	disabled	-		-2.18		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x4	network	-	disabled	-		-2.19		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x5	network	-	disabled	-		-26.78		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x6	network	-	disabled	-		-40.00		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x7	network	-	disabled	-		-40.00		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x8	network	-	disabled	-		-2.69		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x9	network	-	disabled	-		-40.00		sfp+ sr	off	-	-	off	N/A	off	N/
/1/x10 /1/x11	network network	-	disabled disabled	-		-40.00 -40.00		sfp+ sr sfp+ sr	off off	-	-	off off	N/A N/A	off off	N/
/1/x11 /1/x12	network	-	disabled	-		-40.00		none	off	-	-	off	N/A	off	N/
/1/x13	network	_	disabled	_		_		none	off	_	_	off	N/A	off	N/
/1/x14	network	_	disabled	-		-		none	off	_	-	off	N/A	off	N/
/1/x15	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/A
/1/x16	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/
/1/x17	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/
/1/x18	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/
/1/x19	network	-	disabled	-		-		none	off	-	-	off	N/A	off	N/
/1/x20 /1/x21	network	-	disabled disabled	-		-		none	off off	-	-	off off	N/A N/A	off	N/
/1/X21 /1/x22	network network	-	disabled	-		-		none	off	-	-	off	N/A N/A	off	N//
/1/x22 /1/x23	network	-	disabled	-				none	off	-	-	off	N/A N/A	off	N//
/1/x24	network	_	disabled	_		_		none	off	_	_	off	N/A	off	N/
/1/x25	network	_	inactive	_		_		none	-	_	_	-			N//
/1/x26	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x27	network	-	inactive	-		-		none	-	-	-	-			N/A
/1/x28	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x29	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x30	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x31	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x32	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x33 /1/x34	network network	-	inactive inactive	-		-		none none	-	-		-			N/
/1/x34 /1/x35	network	-	inactive	-				none	-	_	-	_			N/
/1/x36	network	_	inactive	-				none	_	_	_	_			N/
/1/x37	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x38	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x39	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x40	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x41	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x42	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x43	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x44	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x45	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x46	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x47	network	-	inactive	-		-		none	-	-	-	-			N/
/1/x48	network	_	inactive					none							N/

Show port output with upgrade license for GigaVUE-TA25E HTL chassis to activate additional twenty four (24) 25Gb/10Gb/1Gb ports and four (4) 100Gb/40Gb ports (total 48 25Gb/10Gb/1Gb ports + 8 100Gb/40Gb ports)

TA25E-SKU	J (config) # :	show license	2											
Box 1														
Slot Fed		ters Start	Date Expiratio	n Date	Type									
1 POF	RT24 -	2025/0	02/05 2026/02/0	5 :	Internal									
	RT48 -		02/05 2026/02/0 rt Date Expirat		Internal Type									
GVOS TA25E-SKI	GVOS: J (config) # :		5/01/23 2026/01	/22	Internal									
Port	Туре	Alias	Admin	Link Status	Xcvr Pwr (dBm) (min max)	Pwr THld	Xcvr Type	Auto Neg	Speed (Mbps)	Duplex		Port Relay	Dscvry	/ UDE
1/1/c1	network	-	disabled	-	-40.00 -22.68		qsfp+ sr	off	-	-	off	N/A	off	N/A
1/1/c2	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/c3 1/1/c4	network network	-	disabled disabled	-	-40.00 -40.00		qsfp+ sr none	off off	-	-	off off	N/A N/A	off off	N/A N/A
1/1/c5	network		disabled	-	-		none	off	-		off	N/A	off	N/A
1/1/c6	network	-	disabled	-	-		none	off	-	-	off	N/A	off	N/A
1/1/c7	network	-	disabled	-	-		none	off	-		off	N/A	off	N/A
1/1/c8 1/1/x1	network network	-	disabled disabled	-	-2.64		none sfp+ sr	off off	-		off off	N/A N/A	off off	N/A N/A
1/1/x2	network	-	disabled	-	-2.43		sfp+ sr	off			off	N/A	off	N/A
1/1/x3	network	-	disabled	-	-2.18		sfp+ sr	off	-	-	off	N/A	off	N/A
1/1/x4	network	-	disabled	-	-2.20		sfp+ sr	off		-	off	N/A	off	N/A
1/1/x5 1/1/x6	network network		disabled disabled	-	-26.78 -40.00		sfp+ sr sfp+ sr	off off	-		off off	N/A N/A	off off	N/A N/A
1/1/x7	network		disabled	-	-40.00		sfp+ sr	off			off	N/A	off	N/A
1/1/x8	network	-	disabled	-	-2.70		sfp+ sr	off	-	-	off	N/A	off	N/A
1/1/x9	network	-	disabled	-	-40.00		sfp+ sr	off		-	off	N/A	off	N/A
1/1/x10 1/1/x11	network network	-	disabled disabled	-	-40.00 -40.00		sfp+ sr sfp+ sr	off off	-	-	off off	N/A N/A	off off	N/A N/A
1/1/x11 1/1/x12	network		disabled	-	-40.00		none	off	-		off	N/A	off	N/A
1/1/x13	network		disabled	-	-		none	off	-	-	off	N/A	off	N/A
1/1/x14	network	-	disabled	-	-		none	off	-		off	N/A	off	N/A
1/1/x15 1/1/x16	network	-	disabled disabled	-	-		none	off off	-	-	off off	N/A N/A	off off	N/A N/A
1/1/x16 1/1/x17	network network	-	disabled	-	-		none none	off	-		off	N/A	off	N/A
1/1/x18	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/x19	network	-	disabled	-	-		none	off	-		off	N/A	off	N/A
1/1/x20	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/x21 1/1/x22	network network	-	disabled disabled	-	-		none none	off off	-		off off	N/A N/A	off off	N/A N/A
1/1/x23	network		disabled	-	-		none	off	-		off	N/A	off	N/A
1/1/x24	network	-	disabled	-	-		none	off	-	-	off	N/A	off	N/A
1/1/x25	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/x26 1/1/x27	network network		disabled disabled	-	-		none none	off off	-		off off	N/A N/A	off off	N/A N/A
1/1/x28	network		disabled	-	-		none	off	-		off	N/A	off	N/A
1/1/x29	network	-	disabled	-	-		none	off	-	-	off	N/A	off	N/A
1/1/x30	network	-	disabled	-	-		none	off	-	-	off	N/A	off	N/A
1/1/x31 1/1/x32	network network	-	disabled disabled	-	-		none none	off off	-	-	off off	N/A N/A	off off	N/A N/A
1/1/x33	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/x34	network	-	disabled	-	-		none	off	-	-	off	N/A	off	N/A
1/1/x35	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/x36 1/1/x37	network	-	disabled disabled	-	-		none	off off	-	-	off off	N/A N/A	off off	N/A
1/1/x37 1/1/x38	network network	-	disabled		-		none none	off		-	off	N/A N/A	off	N/A N/A
1/1/x39	network	-	disabled	-	-		none	off	-	-	off	N/A	off	N/A
1/1/x40	network	-	disabled	-	-		none	off	-	-	off	N/A	off	N/A
1/1/x41	network	-	disabled	-	-		none	off		-	off	N/A N/A	off	N/A
1/1/x42 1/1/x43	network network	-	disabled disabled		-		none none	off off		-	off off	N/A N/A	off off	N/A N/A
1/1/x44	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/x45	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/x46	network	-	disabled	-	-		none	off		-	off	N/A	off	N/A
1/1/x47 1/1/x48	network network	-	disabled disabled		-		none	off off	-	-	off off	N/A N/A	off off	N/A N/A
1/1/X40	network	-	u i sub i e u	-	-		none	UTT	-		UIT	N/A	UTT	N/A

Note: Only Inactive ports are unlicensed ports.

- 4. Enter the **show license** command after enabling an additional ports to check the applied port license.
- 5. Save your changes so that ports come up automatically at the next reboot write memory.

Advanced feature licensing GigaVUE-TA25E

GigaVUE-TA100, GigaVUE-TA200, GigaVUE-TA200E, GigaVUE-TA25E, GigaVUE-TA25, GigaVUE-TA400, and GigaVUE-TA400E nodes can be clustered with GigaVUE TA Series HC Series nodes. Clustering is enabled with an Advanced Features License. Contact your Sales representative for Advanced Features Licenses. Refer to *Contacting Sales*.

Command-Line Basics

This section provides a quick orientation to the GigaVUE TA Series command-line interface – how to enter commands, how to get help, and so on.

Command-Line Modes

The GigaVUE-OS can operate in one of three modes, each with its own set of available commands – Standard, Enable, and Configure. When you first launch the CLI, you start in Standard mode with access to a limited amount of commands used to review system status. As you move from **Standard** mode to **Enable** mode to **Configure** mode, both the power and the number of commands available increase, as summarized in Figure 5 GigaVUE-OS Command-Line Modes.

Note: If you are working simultaneously with multiple GigaVUE TA Series nodes, you may want to assign each a separate hostname so its easy to identify separate terminal sessions from the system prompt. Admin users can do this in Configure mode with the **hostname <name>** command.

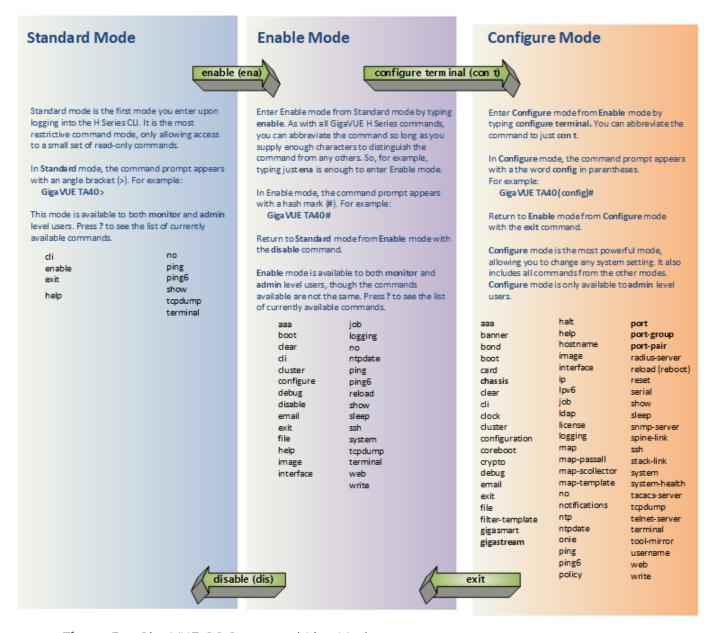


Figure 5 GigaVUE-OS Command-Line Modes

Entering Commands in the CLI

The GigaVUE TA Series CLI provides several conventions that make it easy to identify available commands and enter them quickly:

Technique	Description
Context-Sensitive Help	The ? symbol is the key to receiving help wherever you are in the CLI:
	 Type the? by itself to see a list of all available commands.

Technique	Description
	• Word Help – Type a partial word with a ? mark immediately following the partially-typed word to see a list of all possible commands using the word entered so far. For example, if you typed i? in Configure mode, the CLI would return the following possible commands based on what you've entered so far:
	image interface ip
	 Command Help – Type a command followed by a question mark to see all possible arguments for the command as entered. If the system returns <cr> that means the command can be entered as-is. For example, if you entered gigastream?, you would see alias. You can build your way through the entire command tree by entering? after each new argument. For example, after entering gigastream alias myalias?, you would see the next valid argument – port-list. Note: Typing? accesses the help system immediately – you do not need to press <enter>.</enter> </cr>
Partial Command Entry	For all GigaVUE TA Series commands and arguments, you only need to enter enough characters to distinguish the command from all other available commands. So, for example, you do not have to enter the full command username – there is only one command starting with the letter u , so you only have to enter u .
Command Completion	If you have partially typed a command, you can press Tab and the CLI will attempt to complete the command for you based on what's been entered so far. It is helpful to use the Command Completion feature together with partial command entry – you can press Tab while entering a command to see a list of all available commands matching what you've entered so far. For example, you can press p<tab></tab> and the system will return: pass-all ping port port-pair Based on this information, you know that you only need to enter the letter pa to uniquely identify what you've entered as pass-all.

Command-Line Syntax – Entering Commands

You enter configuration commands for the GigaVUE TA Series node in the command-line interface by typing enough characters to uniquely identify the command and pressing **<Enter>**.

When entering commands, keep in mind the following rules:

- Successful commands return no response in the CLI; commands with errors return an error response beginning with %, followed by a short error description.
- All commands are case-sensitive and entered in lower case.
- Port numbers are entered in **<box ID>/<slot ID>/<port ID>** format. For the GigaVUE TA Series nodes, the chassis ID and slot number are always 1.
- Strings must consist entirely of alphanumeric characters with no spaces. The only exceptions are the underscore (_), hyphen (-), exclamation point (!), "at" symbol (@), and period (.) characters. Those are allowed.

For example, in Config mode, **port 1/1/c12 alias My_Alias** is legal, but **port 1/1/c12 alias My Alias** is not.

Note: Some string fields do accept spaces provided the input is made inside quotation marks

Config Mode Syntax

When using the GigaVUE TA Series CLI, the "config" part of the command is implied whenever you are working in Configure mode. The system prompt helps you remember this by including the word **(config)** in parentheses. For example:

(config)

So, instead of entering **config map** to connect a network port to a tool port, you just enter **map** followed by the necessary arguments. The **config** part is implied because you are already working in the Configure command mode. For example:

(config) # map alias myTA40map from 1/1/q1 to 1/1/q5

Paging through CLI Output

By default, the GigaVUE TA Series CLI returns output exceeding the configured terminal length in pages. The CLI provides the same features for working through the paged output as the Linux programs **less** and **more**. Press the **h** key to see paging options – Figure 6 Viewing Paging Options provides an example.

If you prefer, you can disable paging either for the current session or by default:

- Disable for Current Session
 - (config) # no cli session paging enable
- Disable for All Sessions (Default)

(config) # no cli default paging enable

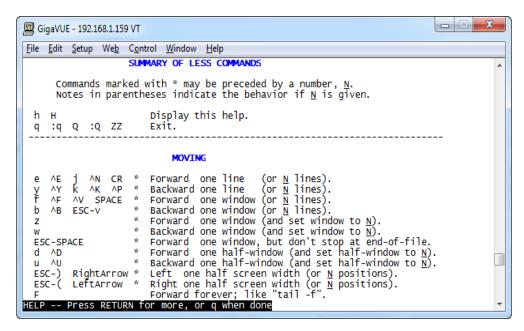


Figure 6 Viewing Paging Options

The Basic Commands

The following table lists each of the top level commands for the GigaVUE-OS CLI in Configure mode. Most commands have multiple supported arguments. You can see the exact arguments available at any point of command entry by typing it into the CLI followed by ?.

Command	Description
aaa	Configure authentication, authorization, and accounting settings.
banner	Set a system login banner.
bond	Configure bonded interface settings.
boot	Configure system boot parameters.
card	Configure a card.
	On GigaVUE TA Series nodes, use the card command to enable additional ports on GigaVUE TA Series nodes.
chassis	Configure the chassis.
clear	Reset statistics or clear caches.
cli	Configure CLI shell options.
clock	Set the system clock or timezone.
cluster	Configure a cluster of connected nodes.
configuration	Manage configuration files.
configure	Enter Configure mode.
coreboot	Upgrades the BIOS image on GigaVUE-TA100, GigaVUE-HC1, GigaVUE-HC3 and GigaVUE-TA25.
crypto	Manage X.509 certificates for the node's Web server.

Command	Description
debug	Generate a dump file for use in debugging issues with Gigamon Technical Support.
disable	Leave Enable mode and return to Standard mode.
email	Configure email and event notification via email.
enable	Enter Enable mode.
exit	Leave Configure mode and return to Enable mode or log out of the CLI.
file	Manage TCP and debug dump files on disk.
filter-template	Configures flexible filter templates on GigaVUE-HC3, GigaVUE-TA100, and GigaVUE-TA25.
gigasmart	Configures a stack port interface to provide Internet connectivity for a GigaSMART card or module.
gigastream	Configure a GigaStream – a group of ports acting as a single addressable tool port destination or stack-link.
halt	Shut down the system without powering it off.
help	View a description of the interactive help system.
hostname	Specify the system's hostname. The hostname appears in the system prompt and in SNMP traps.
ib-pathway	Reserved for future use.
image	Manage system software images.
inline-network	Configures an inline network on GigaVUE TA Series nodes.
inline-network - group	Configures an inline network group on GigaVUE TA Series nodes.
inline-netlag	Configure Inline-Netlag.
inline-serial	Configures an inline tool series on GigaVUE TA Series nodes.
inline-tool	Configures an inline tool on GigaVUE TA Series nodes.
inline-tool-group	Configures an inline tool group on GigaVUE TA Series nodes.
interface	Configure network interfaces.
ip	Configure IP settings for the eth0 Mgmt port.
ipv6	Configure IPv6 settings for the eth0 Mgmt port.
job	Configure scheduled jobs.
Idap	Configure LDAP server settings for authentication.
license	Activate features using license keys. GigaVUE-TA25 and GigaVUE-TA100, use this command to enable additional ports. (GigaVUE-TA25 has all ports enabled.)
	Use this command to enable clustering on the following GigaVUE TA Series nodes: GigaVUE-TA100 and GigaVUE-TA25.
logging	Configure event logging.
тар	Configure maps and map rules to manage GigaVUE TA Series traffic distribution.
map-passall	Create a pass-all map to send all traffic on a network port to a tool port irrespective of the other packet distribution in place on the port.
map-scollector	Configure shared collector map parameters.
map-template	Create a map template.
no	Delete or clear certain configuration options.

Command	Description
notifications	Configures notification settings.
ntp	Enable and disable the use of NTP, as well as add NTP servers.
ntpdate	Set system clock once from a remote server using NTP.
ping	Send ICMP echo requests to a specified host.
ping6	Send ICMPv6 echo requests to a specified host.
policy	Configures an active visibility policy.
port	Configure port type, parameters, and filters.
port-group	Create a group of ports.
port-pair	Configure a port-pair on a pair of network ports within the same node. A port-pair is a bidirectional connection in which traffic arriving on one port in the pair is transmitted out the other (and vice-versa) as a passthrough TAP.
radius-server	Configure RADIUS server settings for authentication.
reload(reboot)	Reboot or shut down the node.
reset	Reset specified portions of the system configuration to their factory states.
serial	Set options for the serial console port.
sfp	Reserved for future use.
show	Display configuration and status information for a wide variety of settings and entities.
sleep	Sleep for a specified number of seconds.
snmp-server	Configure SNMP settings, including the local SNMP server, notification events, and notification destinations.
spine-link	Configures spine links in a cluster with a leaf and spine architecture.
ssh	Enable and disable SSH access, as well as manage settings.
stack-link	Configure a stack-link between two nodes in a cluster. Stack-links are used to carry data traffic between nodes in a cluster.
system	Change system settings.
system-health	Configures system health behaviors.
tacacs-server	Configure TACACS+ server settings for authentication.
tcpdump	Display packets from any eth x port in the node on a network.
terminal	Set terminal parameters, including width and length.
tool-mirror	Configures a tool-mirror connection between two tool ports. A tool-mirror connection sends all packets arriving on one tool port to a second tool port on the same node.
traceroute	Trace the route packets take to a destination.
tunnel	Reserved for future use.
uboot	Installs new uboot software.
username	Manage user accounts.
web	Configure the Web server used for GigaVUE-FM GUI support on the node.
write	Save the running configuration to persistent storage.

Completing the Initial Setup

At this point, you have logged in to the command-line interface using the **admin** account, configured the **Mgmt** port's network properties for SSH access, and have explored the command-line interface.

There are a few more steps you should perform to complete the initial configuration before you set up network ports, tool ports, and aggregate traffic. These tasks include:

- Switch to the Configure mode. Refer to Enter the Configure Command-Line Mode.
- Configure SSH access to the node. Refer to SSH2.
- Configure some basic user accounts. Refer to Initial User Account Configuration.
- Configure the node name. Refer to Configuring the GigaVUE TA Series Host Name.
- Configure time and date options for the node. Refer to Configuring GigaVUE TA Series Node's Time Options.
- Configuring Internet Explorer for Use with GigaVUE-FM. Refer to Configuring Internet Explorer for Use with GigaVUE-FM.
- Save your changes! Refer to Saving Changes.

Enter the Configure Command-Line Mode

Keep in mind that the GigaVUE-OS have three different command modes for the CLI – **Standard**, **Enable**, and **Configure**. The commands described in the sections below are all only available in Configure mode. Switch to configure mode as follows:

Command	Notes
> enable	You only need to supply enough of each command to positively identify it among the other available commands. So, in this example, you could just type ena and press Enter.
# configure terminal	Similarly, this command can be entered as con t .
(config) #	Notice how the system prompt changes with each command mode. Command modes offer greater control over the box as you ascend from Standard to Enable to Configure .

SSH₂

SSH2 is available for remote connections to the GigaVUE TA Series Traffic Aggregator's **Mgmt** port. By default, SSH2 is enabled. Use the **ssh** commands in Configure mode to enable or disable the corresponding connections. To disable the corresponding connection, you include **no** before the command, as demonstrated in the table below. For example:

Command	Notes	
Enable: (config) # ssh server enable Disable:	When SSH2 is enabled, you can use any compliant SSH2 client to connect to the command-line interface remotely. For example, to connect using the SSH2 client, PuTTY:	
(config) # no ssh server enable	 a. Start PuTTY and enter the GigaVUE TA Series Traffic Aggregator's IP address in the Host Name field. b. Click the SSH protocol radio button. 	
	c. Click Open to open a connection. If this is your first connection PuTTY warns you that the host key presented by the GigaVUE TA Series node is not in your cache. You can add the key, connect without adding the key, or cancel the connection. Refer to Verifying Host Keys During Connection for information on how to verify that the host key shown is the correct one.	
	d. Log in with GigaVUE TA Series credentials.	

Advantages of SSH2

SSH2 is a secure choice for remote connections, providing an encrypted channel instead of relying on clear text. It also provides stronger user authentication capabilities, including the use of a public **host key**. Host keys uniquely identify a server, helping guarantee that the server you're connecting to is the server you think it is.

The GigaVUE TA Series nodes also include default RSA v1/v2 and DSAv2-encrypted public host keys (SSH2 supports both RSA and DSA encryption algorithms). The first time you connect to the GigaVUE TA Series node with an SSH2 client, the client will warn you that the host keys are not in your local cache and show you the actual host key presented by the node. Your client will most likely give you the option of trusting the key, adding it to your local cache. Once you've trusted the key, your client will alert you during connection if a different key is presented.

IMPORTANT: Telnet server functionality is no longer supported as of GigaVUE-OS 5.7.00.

Verifying Host Keys During Connection

To verify that the host key presented during an SSH2 connection is in fact the GigaVUE TA Series node's, you can connect over the console port (refer to Access the Command-Line Interface over the console Port) and use the **show ssh server host-keys** command to see the current public host keys and fingerprints for the GigaVUE TA Series node. Paste these in a file and keep them nearby when you connect via SSH2 the first time. This way, you'll be able to compare the actual host key to what your SSH2 client says is being presented. Once you've verified that they are the same, you can choose to trust the host key, allowing future connections to take place seamlessly.

Changing Host Keys

You can use the **ssh server host-key generate** command to change the default host keys provided with the GigaVUE TA Series node. The command has the following syntax:

ssh server host-key <rsa1 | rsa2 |dsa2> <private-key | public-key> generate
For example, to configure a new RSAv1 public hostkey, you could use the following command:

(config) # ssh server host-key rsal public-key generate

Initial User Account Configuration

Before you start mapping traffic, you must change the password for the **admin** account and add a few other accounts for use by different level users. (You may have already used the jump-start script to change the password for the **admin** account.)

Changing the admin Account Password

1. To change the password for the **admin** account using the **username** command, refer to the following:

(config) # username admin password <password>

Passwords must meet the following standards:

- o Include 8-30 characters.
- o Include at least one numeral
- Include at least one capital letter
- o Include at least one special character (for example, !, @, #, \$, %, ^, &, or * ASCII [0x21, 0x2F], [0x3A, 0x40], [0x5B, 0x5F], [0x7B,0x7E]).

Enter a new password that meets the standards and confirm the password.

Setting Up Some Basic Accounts

1. The GigaVUE TA Series node has a local account database that can optionally integrate with an LDAP, RADIUS, or TACACS+ server for authentication. Any account you want to authenticate using an external AAA server must have a matching account name in the local database.

Authentication, user levels, and roles are discussed in detail in the *GigaVUE-OS CLI Reference Guide*. For now, however, it is easiest to simply create a few basic user accounts with different privilege levels. In general, user privileges are as follows:

- Admin users have access to all command modes, including Standard, Enable, and Configure. They also have full permissions for all network, tool, and stack ports.
- Operator users have access to all command modes, including Standard, Enable, and Configure. However, they only have access to the network and tool ports associated with their user group. New users are created with the operator role by default. You can add additional roles with the username <username> roles add <roles> command.
- Monitor users have access to the Standard and Enable command modes. They
 cannot configure packet distribution (or any other global GigaVUE TA Series node
 options), but they can use the show command to review many of the settings in
 place on the node.

The following username commands create a new admin user and a new operator user:

Command	Comments
(config) # username psandoval password Nine9.Eight8! (config) # username psandoval roles add admin	Creates a new account named psandoval with a password and grants it admin privileges.
(config) # username bcrawford password Seven7.Six6!	Creates a new account named bcrawford with a password. New users are automatically created with default operator level privileges, so there is no need to grant an additional role.

Once you have configured these basic user accounts, use the **show usernames** command to review your settings. Figure 7 Reviewing the User List shows some sample **show usernames** output after several users have been added.

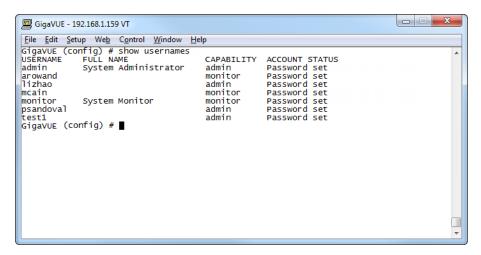


Figure 7 Reviewing the User List

Configuring the GigaVUE TA Series Host Name

It is generally a good idea to configure the GigaVUE TA Series node's name, date, and time as part of your initial configuration. The following command shows how to set the system name. Refer to Configuring GigaVUE TA Series Node's Time Options for information on setting options related to time and date.

Setting the System Name

 Use the **hostname** command to specify the system name. For example: (config) # hostname GigaVUE TA Series-Customer

Configuring GigaVUE TA Series Node's Time Options

The GigaVUE TA Series nodes include a variety of features for setting the time, including:

Method	CLI Command	For more information:
System Clock	clock set hh:mm:ss yyyy/mm/dd	Setting Time Manually
One-Time NTP Synchronization	ntpdate <ntpserver address=""></ntpserver>	Performing One-Time NTP Server Synchronization
Persistent NTP Synchronization	Add server using ntp server command.	Using NTP Time Server for System Clock Synchronization
	Enable use of ntp with ntp enable command.	

Setting Time Manually

The easiest way to set the GigaVUE TA Series node's time is manually with the **clock set** command. For example:

(config) # clock set 05:18:38 2011/05/24

Note: Even if you are using NTP/SNTP, It is a good idea to configure time manually as well. The GigaVUE TA Series node will automatically fall back to the manual time setting if it is unable to synchronize with the specified time server.

The **show ntp** will show the current state of the NTP server in use; the **show clock** command shows the current GigaVUE TA Series node's time.

Performing One-Time NTP Server Synchronization

You can perform a one-time synchronization with an NTP server using the **ntpdate** command. For example:

(config) # ntpdate time.nist.gov

Note that this method does not provide updates to correct clock drift over time. It is generally preferable to use persistent NTP synchronization with the **ntp** commands.

Using NTP Time Server for System Clock Synchronization

The GigaVUE TA Series nodes can optionally use one or more NTP servers for its time setting. Use the following procedure to add an NTP server to the GigaVUE TA Series node's list and enable the use of NTP.

1. Specify the address of the time server. For example, if the time server is on 192.168.1.10, you would use the following command:

(config) # ntp server 192.168.1.10

Note: There are many public NTP servers available on the Internet.

2. Turn on NTP with the following command:

(config) # ntp enable

3. The GigaVUE TA Series node connects to the specified NTP server and synchronizes to its time.

4. NTP reports times in UTC. Because of this, It is a good idea to specify the GigaVUE TA Series node's timezone so that UTC can be converted to the local timezone.

You specify the timezone in terms of the offset from UTC (either plus or minus). For example, to set the timezone for a GigaVUE TA Series node in the United States for Pacific Standard Timezone, you would use the following command:

(config) # clock timezone America North United_States Pacific

Once you've finished configuring NTP options, use the **show ntp** command to check the status of clock synchronization (Figure 8 Checking NTP Status and Configuration).

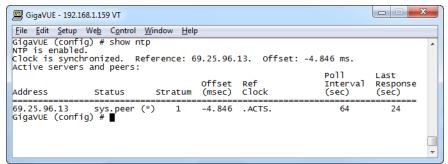


Figure 8 Checking NTP Status and Configuration

Configuring Internet Explorer for Use with GigaVUE-FM

GigaVUE-FM works best in Internet Explorer when the browser is configured to check for newer versions of stored pages every time pages are visited. Enable this option as follows:

- 1. Open Internet Explorer.
- 2. Select the **Tools > Internet Options** command.
- 3. In the General tab, locate the Browsing history section and click its Settings button.
- 4. Set the Check for newer version of stored pages: option to Every time I visit the webpage.
- 5. Click **OK** on the Temporary Internet Files and History Settings dialog.
- 6. Click **OK** on the Internet Options dialog.

Configuring Automatic Email Notifications

The GigaVUE TA Series nodes provide powerful email notification capabilities, automatically sending emails to specified addresses when any of a wide variety of events take place on the system. Gigamon strongly recommends that you configure this feature so you have immediate visibility of events affecting system health.

You configure automatic email notifications with the **email** command and its arguments. Start by making sure the CLI is in Configure mode. If the **(config)** entry appears in the system prompt, you are in Configure mode. If not, use the **enable** and **configure terminal** commands sequentially to change to Configure mode. Then, configure email notifications as follows:

Description	Command
First, use the email mailhub command to specify the mail server to use for notification emails. In this example, the email server named smtp.emailsrvr.com is used. IP address can be used instead of a hostname.	(config) # email mailhub smtp.emailsrvr.com
Next, use the email auth command to supply the email account username and password. In this example, alerts@mycompany.com is shown with a password of mypassword123 .	(config) # email auth username alerts@mycompany.com (config) # email auth password mypassword123
Once account is setup turn on email authentication.	(config) # email auth enable
Now that the settings are configured, let the system send emails. Set up who to send them to and when to send them. Use email notify recipient to configure the destinations for event notification emails. Multiple destinations can be specified by separating by commas with no spaces.	(config) # email notify recipient cday@mycompany.com,mfelton@mycompany.co m
The email notify event command lets you configure which events will trigger automatic emails. There are quite a few events available – start by entering email notify event? to see the list of available events. You can either enable individual events, or, use the all argument to enable them all.	(config) # email notify event all
It is a good idea to check your settings and make	(config) # email send-test

Description	Command
sure emails are sent successfully. You can do that with the email send-test command. If you do not receive the email, check the show log output to make sure the email was sent. Then, reconfigure email settings, if necessary.	
You may also want to configure and enable autosupport emails. Autosupport emails are sent directly to Gigamon's Technical Support department when specified events take place, enabling proactive problem resolution. The GigaVUE TA Series is preconfigured with the correct destination address – you just need to enable the feature with the following command.	(config) email autosupport enable
Use show email events to see the list of events for which autosupport emails will be sent. You can change the list with the (no) email autosupport event command.	

That's it! Emails will now be sent automatically to the configured addresses when any of the selected events take place.

There are many other options for fine-tuning automatic email settings, including how to handle "dead letters" (emails that did not reach their recipient), how the email address of the GigaVUE TA Series should appear, the port for the email server, the replyto address, and so on.

Using a Custom Banner

The GigaVUE TA Series nodes can display a customizable text banner at system startup before a user logs in. This way, users connecting to the system see the banner before they log in, giving them an idea of which system they are logging in to. The banner also appears after a user logs outs.

Use the **banner login "<string>"** command to configure the login banner. For example: (config) # banner login "Pacific Call Center"

Note: You only need to use quotation marks for the <string> if it includes spaces.

The next time you log in or out of the GigaVUE TA Series node, you will see the customizable banner.

Saving Changes

It is a good idea to get into the habit of using the **write memory** command to save changes as you make them. Later on, when you start setting up packet distribution, your changes will added to the active configuration right away but would not be saved across a system reboot unless you use the **write memory** command to save your changes to flash.

Note: The name of the factory-provided configuration file is **initial**. You can refer to the name of the most recently booted configuration file by using the **show running-configuration** command (or **show configuration**) and look for the **## Running database** entry.

Connecting Ports on GigaVUE TA Series

This chapter provides information on the transceivers supported for use with the GigaVUE TA Series.

Refer to the following sections for details:

Transceiver—Rules and Notes

Keep in mind the following rules and notes when you connect and use GigaVUE TA Series nodes with transceivers:

- Always use transceivers purchased from Gigamon to ensure interoperability and performance. Gigamon does not support transceivers purchased from other vendors.
- After removing an optical transceiver, the best practice is to wait seventeen (17) or more seconds before re-inserting the same or different optical transceiver. This includes the intervals between removal/insertion/re-insertion.
- Use the **show port params all** command to see transceiver type information for each
 of the network/tool ports in the GigaVUE TA Series nodes. Check the value of the **SFP**type field for the ports in question.
- Following are the nomenclatures for the GigaVUE TA Series node port numbers:
 - o Port numbers starting with a c (for example, c1) are 100Gb. They can also support 40Gb depending on the transceiver installed.
 - o Port numbers starting with a q (for example, q1) are 40Gb.
 - o Port numbers starting with an x (for example, x10) are 10Gb or 1Gb or 25Gb depending on the transceiver installed. They can also support 25Gb on select platforms.

Note: The 40Gb QSFP+ SR Full Duplex (RX/TX) transceiver is not supported in conjunction with a TAP.

• For details about the supported transceivers, cable types, and connectivity specifications, refer to "GigaVUE-OS Compatibility and Interoperability Matrix".

BiDi Optics Considerations

There are several nuances to consider due to the complexity in 40Gb BiDi technology. Because of the nature of 40Gb BiDi technology, the same BiDi optic (Full Duplex or RX-only) cannot be used in all of the following situations. For example:

- On SPAN sessions, RX-only BiDi optics cannot be used. Full Duplex BiDi optics must be used.
- When receiving traffic from network links, RX-only BiDi optics must be used due to the way traffic is multiplexed over the fiber pair in 40Gb BiDi technology.
- When deploying over inline 40Gb BiDi links, Full Duplex BiDi optics must be used.
- When connecting two GigaVUE TA Series nodes through a cascade connection, Full Duplex BiDi optics must be used for the tool port. The network port may be either Full Duplex or RX-only BiDi optics.
- When stacking multiple GigaVUE TA Series nodes, 40Gb BiDi optics must not be used on stack links because the 40Gb BiDi technology is not compatible with the Gigamon stack protocol.

Transceiver Installation Instructions

Gigamon transceivers are keyed and can only be installed in one direction. Transceivers are hot-swappable – they can be installed or removed with the power on or off. Use the following procedures to install and remove SFPs from GigaVUE TA Series node.

IMPORTANT: Always use an ESD-preventive wrist or ankle strap and ensure that it makes good skin contact when installing or removing transceivers.

MPO Cabling

Refer to the following sections for MPO cabling:

- MPO/MTP 12 Position Fiber Cable for Use with SR4 Transceivers
- MTP/APC Fiber Cable for Use with QSFP+ PLR4 Transceivers
- MPO/MTP 24 Position Fiber Cable for Use with SR10 Transceivers
- For details about the supported transceiver, cable type, and connectivity specifications, refer to "GigaVUE-OS Compatibility and Interoperability Matrix".
- For details about how to cable GigaVUE TA Series nodes, refer to "GigaVUE-OS Pluggables Guide".

MPO/MTP 12 Position Fiber Cable for Use with SR4 Transceivers
This is a female to female Multi-fiber Push On (MPO) / Ultra Polished Connector (UPC) of
cable type B. Figure 9 MPO/MTP 12 Position Fiber Cable provides cabling details for
MPO/MTP 12 position fiber cable for use with 40Gb SR4 QSFP+, 40Gb ESR4 QSFP+, and
100Gb ER4 QSFP28 and 100Gb SR4 QSFP28 transceivers.

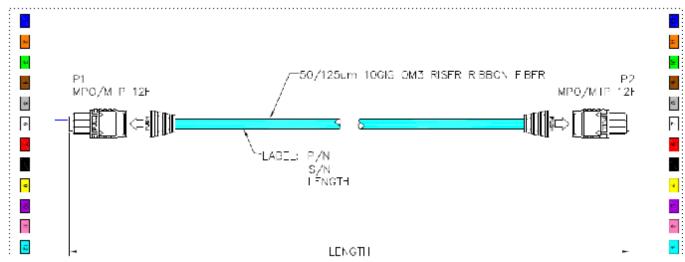


Figure 9 MPO/MTP 12 Position Fiber Cable

MTP/APC 12 Position Fiber Cable for Use with QSFP+ PLR4 Transceivers The MTP cable is a high performance MPO connector. This is a female to female Angled Polished Connector (APC) of cable type B with an 8-degree angled end-face and a diameter of 9/125µm. Figure 10 MTP/APC Cable provides details for MTP/APC 12 position fiber cable for use with 40Gb QSFP+ PLR4 transceivers on the GigaVUE-TA100 node.

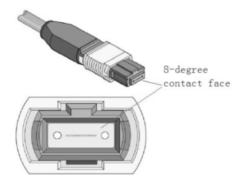


Figure 10 MTP/APC Cable

MPO/MTP 24 Position Fiber Cable for Use with SR10 Transceivers
This is a female to female Ultra Polished Connector (UPC) of cable type B. Figure 11
MPO/MTP 24 Position Fiber Cable provides cabling details for MPO/MTP 24 position fiber cable for use with 100Gb SR10 CXP transceivers.

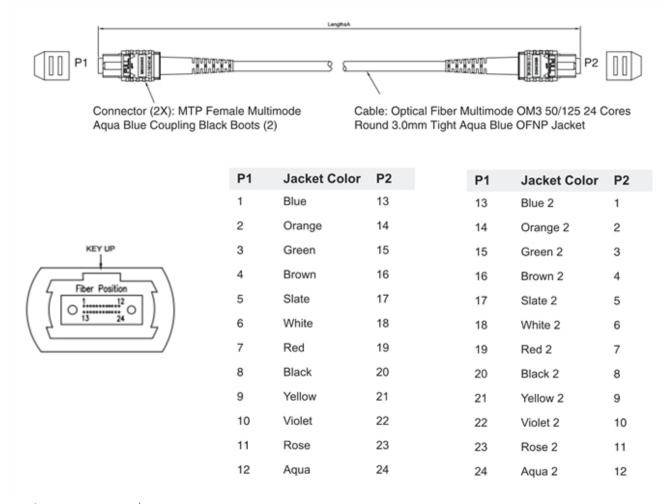


Figure 11 MPO/MTP 24 Position Fiber Cable

GigaVUE TA Series Specifications

This section provides the physical specifications, power requirements and environmental specifications for the GigaVUE TA Series Traffic Aggregation node. Compliance for safety, emissions and immunity are also provided.

Physical Dimensions and Weight

The following table summarizes the dimensions for the GigaVUE Traffic Aggregation node GigaVUE-TA25E:

Product	Height	Width	Depth	Weight (AC Version)
GigaVUE-TA25E	1.71 in (1RU) (43.5mm)	17.26 in (438.4 mm)	Metal to Metal 21.1in(536 mm)	22.05lb (10kg)

Power Requirements

Each GigaVUE TA Series node come standard with dual, load sharing power supplies. Table 2: Power Requirements for GigaVUE-TA25E summarize the electrical characteristics for the GigaVUE TA Series Traffic Aggregation node, GigaVUE-TA25E.

Note: Refer to Connecting Power to GigaVUE-TA25Efor instructions on how to connect power supplies.

Table 2: Power Requirements for GigaVUE-TA25E

Power Configurations	1+1 Power: 2 Power Supply Modules	
Max Power Consumption/ Heat Output	550 Watts	
AC Power Supply	Min/Max Voltage: 100V–240 VAC, 50/60Hz Max PSM Input	
Modules	Current: 6A@100V-240VAC	
DC Power Supply	Min/Max Voltage: -36 to-72 VDC	
Modules	Max PSM Input Current (Steady State): 16A@ 48VDC	

Fan Tray Specification for GigaVUE-TA25E

The GigaVUE-TA25E uses a fan tray for cooling. The below table summarizes the characteristics of the fan tray.

Table 3: GigaVUE-TA25E Fan Tray Specifications

Rated Voltage	12V DC
Input Power	Maximum 18W
Maximum Speed	9000 RPM
Туре	Dual axial flow fans

Environmental Specifications

Table 4: Environmental Specifications for GigaVUE TA Series-TA25E summarizes the environmental specifications for the GigaVUE TA Series Traffic Aggregation node.

Table 4: Environmental Specifications for GigaVUE TA Series-TA25E

Specification	Value
Operating Temperature	32°F to 113°F (0°C to 45°C) Front to Back
	32°F to 104°F (0°C to 40°C) Back to Front
Operating Relative Humidity	5% to 95%, non-condensing
Recommended Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Recommended Storage Relative Humidity	15% to 85%, non-condensing
Altitude	Up to 13000ft (3.96km) for , GigaVUE-TA25E

Compliance GigaVUE-TA25E

This section provides compliance information for GigaVUE® TA Series Traffic Aggregation nodes.

Safety

UL (CSA 22.2 No 60950-1 & UL60950-1)

CB (IEC/EN60950-1)

CCC GB4943.1-2011

BSMI, CNS 14336-1

Immunity

EN 55024:2010+A1:2015

IEC 61000-4-2/3/4/5/6/8/11

Emissions

EN 55032:2015+AC:2016, Class A

EN 61000-3-2:2014, Class A

EN 61000-3-3:2013

FCC Class A

VCCI Class A

CCC GB 9254-2008, Class A

BSMI Class A, CNS 13438

Warranty

Gigamon offers a range of premium support and extended services. For details regarding warranty, visit: https://www.gigamon.com/support/warranty.

Regulatory Label GigaVUE-TA25E

This section provides regulatory labels for GigaVUE-TA25E node.



사용자안내문(제10조 관련)

1. 별표 1 제11호 가목, 자목에 해당하는 기자재 중 업무용 방송통신기자재

사 용 자 안 내 문

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

Additional Sources of Information

This appendix provides additional sources of information. Refer to the following sections for details:

- Documentation
- Documentation Feedback
- Contact Technical Support
- Contact Sales
- The VÜE Community

Documentation

This table lists all the guides provided for GigaVUE TA Series software and hardware. The first row provides an All-Documents Zip file that contains all the guides in the set for the release.

Note: In the online documentation, view What's New to access quick links to topics for each of the new features in this Release; view Documentation Downloads to download all PDFs.

Table 1: Documentation Set for Gigamon Products

GigaVUE TA Series 6.11 Hardware and Software Guides

DID YOU KNOW? If you keep all PDFs for a release in common folder, you can easily search across the doc set by opening one of the files in Acrobat and choosing **Edit > Advanced Search** from the menu. This opens an interface that allows you to select a directory and search across all PDFs in a folder.

Hardware

how to unpack, assemble, rackmount, connect, and initially configure ports the respective GigaVUE TA Series devices; reference information and specifications for the respective GigaVUE TA Series devices

GigaVUE-HC1 Hardware Installation Guide

GigaVUE-HC3 Hardware Installation Guide

GigaVUE-HC1-Plus Hardware Installation Guide

GigaVUE-HCT Hardware Installation Guide

GigaVUE-TA25 Hardware Installation Guide

GigaVUE-TA25E Hardware Installation Guide

GigaVUE-TA100 Hardware Installation Guide

GigaVUE-TA200 Hardware Installation Guide

GigaVUE-TA200E Hardware Installation Guide

GigaVUE TA Series 6.11 Hardware and Software Guides

GigaVUE-TA400 Hardware Installation Guide

GigaVUE-TA400E Hardware Installation Guide

GigaVUE-OS Installation Guide for DELL S4112F-ON

G-TAP A Series 2 Installation Guide

GigaVUE M Series Hardware Installation Guide

GigaVUE-FM Hardware Appliances Guide

Software Installation and Upgrade Guides

GigaVUE-FM Installation, Migration, and Upgrade Guide

GigaVUE-OS Upgrade Guide

GigaVUE V Series Migration Guide

Fabric Management and Administration Guides

GigaVUE Administration Guide

covers both GigaVUE-OS and GigaVUE-FM

GigaVUE Fabric Management Guide

how to install, deploy, and operate GigaVUE-FM; how to configure GigaSMART operations; covers both GigaVUE-FM and GigaVUE-OS features

GigaVUE Application Intelligence Solutions Guide

Cloud Guides

how to configure the GigaVUE Cloud Suite components and set up traffic monitoring sessions for the cloud platforms

GigaVUE V Series Applications Guide

GigaVUE Cloud Suite Deployment Guide - AWS

GigaVUE Cloud Suite Deployment Guide - Azure

GigaVUE Cloud Suite Deployment Guide - OpenStack

GigaVUE Cloud Suite Deployment Guide - Nutanix

GigaVUE Cloud Suite Deployment Guide - VMware (ESXi)

GigaVUE Cloud Suite Deployment Guide - VMware (NSX-T)

GigaVUE Cloud Suite Deployment Guide - Third Party Orchestration

Universal Cloud TAP - Container Deployment Guide

Gigamon Containerized Broker Deployment Guide

GigaVUE TA Series 6.11 Hardware and Software Guides

GigaVUE Cloud Suite Deployment Guide - AWS Secret Regions

GigaVUE Cloud Suite Deployment Guide - Azure Secret Regions

Reference Guides

GigaVUE-OS CLI Reference Guide

library of GigaVUE-OS CLI (Command Line Interface) commands used to configure and operate GigaVUE HC Series and GigaVUE TA Series devices

GigaVUE-OS Security Hardening Guide

GigaVUE Firewall and Security Guide

GigaVUE Licensing Guide

GigaVUE-OS Cabling Quick Reference Guide

guidelines for the different types of cables used to connect Gigamon devices

GigaVUE-OS Compatibility and Interoperability Matrix

compatibility information and interoperability requirements for Gigamon devices

GigaVUE-FM REST API Reference in GigaVUE-FM User's Guide

samples uses of the GigaVUE-FM Application Program Interfaces (APIs)

Factory Reset Guidelines for GigaVUE-FM and GigaVUE-OS Devices

Sanitization guidelines for GigaVUE Fabric Management Guide and GigavUE-OS devices.

Release Notes

GigaVUE-OS, GigaVUE-FM, GigaVUE-VM, G-TAP A Series, and GigaVUE Cloud Suite Release Notes

new features, resolved issues, and known issues in this release; important notes regarding installing and upgrading to this release

NOTE: Release Notes are not included in the online documentation.

Note: Registered Customers can log in to My Gigamon to download the Software and Release Notes from the Software and Docs page on to My Gigamon. Refer to How to Download Software and Release Notes from My Gigamon.

In-Product Help

GigaVUE-FM Online Help

how to install, deploy, and operate GigaVUE-FM.

How to Download Software and Release Notes from My Gigamon

Registered Customers can download software and corresponding Release Notes documents from the **Software & Release Notes** page on to My Gigamon. Use the My Gigamon Software & Docs page to download:

- · Gigamon Software installation and upgrade images,
- Release Notes for Gigamon Software, or
- Older versions of PDFs (pre-v5.7).

To download release-specific software, release notes, or older PDFs:

- 1. Log in to My Gigamon.
- 2. Click on the **Software & Release Notes** link.
- 3. Use the **Product** and **Release** filters to find documentation for the current release. For example, select Product: "GigaVUE-FM" and Release: "5.6," enter "pdf" in the search box, and then click **GO** to view all PDF documentation for GigaVUE-FM 5.6.xx.

Note: My Gigamon is available to registered customers only. Newer documentation PDFs, with the exception of release notes, are all available through the publicly available online documentation.

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Contact Technical Support

For information about Technical Support: Go to **Settings** > **Support > Contact Support** in GigaVUE-FM.

You can also refer to https://www.gigamon.com/support-and-services/contact-support for Technical Support hours and contact information.

Email Technical Support at support@gigamon.com.

Contact Sales

Use the following information to contact Gigamon channel partner or Gigamon sales representatives.

Telephone: +1.408.831.4025

Sales: inside.sales@gigamon.com

Partners: www.gigamon.com/partners.html

Premium Support

Email Gigamon at inside.sales@gigamon.com for information on purchasing 24x7 Premium Support. Premium Support entitles you to round-the-clock phone support with a dedicated Support Engineer every day of the week.

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The VÜE Community is a technical site where Gigamon users, partners, security and network professionals and Gigamon employees come together to share knowledge and expertise, ask questions, build their network and learn about best practices for Gigamon products.

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- Ask and answer questions and learn best practices from other members.
- Join special-interest groups to have focused collaboration around a technology, usecase, vertical market or beta release
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Glossary

decrypt list

need to decrypt (formerly blacklist)

decryptlist

need to decrypt - CLI Command (formerly blacklist)

drop list

selective forwarding - drop (formerly blacklist)

F

forward list

selective forwarding - forward (formerly whitelist)

П

leader

leader in clustering node relationship (formerly master)

M

member node

follower in clustering node relationship (formerly slave or non-master)

Ν

no-decrypt list

no need to decrypt (formerly whitelist)

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nodecryptlist

no need to decrypt- CLI Command (formerly whitelist)

P

primary source

root timing; transmits sync info to clocks in its network segment (formerly grandmaster)

R

receiver

follower in a bidirectional clock relationship (formerly slave)

S

source

leader in a bidirectional clock relationship (formerly master)

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