



GigaVUE-TA25 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.

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Contents

GigaVUE-TA25 Hardware Installation Guide	1
Change Notes	3
Contents	4
GigaVUE TA Series Overview	6
GigaVUE TA Series Nodes	7
GigaVUE TA Series Features and Benefits	9
Standard GigaVUE HC Series Features	10
Introducing the GigaVUE-TA25 Chassis	11
GigaVUE-TA25 Ports and Description	11
Chassis Cooling	12
Power LED	14
System LED	14
Fan LED	14
Port Status LED	15
PSU LED	15
AMI_BIOS_Images	15
Air Flows Directions	16
AC and DC Powered GigaVUE-TA25 Models	16
Battery Caution	16
GigaVUE-TA25 Rules and Notes	16
Breakout Modes	17
Configure the Port Mode	17
Breakout Panels	19
Getting Unpacked, Racked, Installed and Connected	19
Unpacking the GigaVUE TA Series Traffic Aggregator	19
Rack-Mounting the GigaVUE TA Series	19
Two-Post Rack Methods:	20
Four-Post Rack Methods:	22
Basic Connections and Configuration	24
Grounding the GigaVUE TA Series Chassis	24
Avoid Electrostatic Damage!	25
Connecting Power to the GigaVUE®TA Series	25
Connecting -48V DC Power Supplies	27
Cautions for Power and Ground connections	30
Précautions relatives au raccordement à l'alimentation et à la terre	31

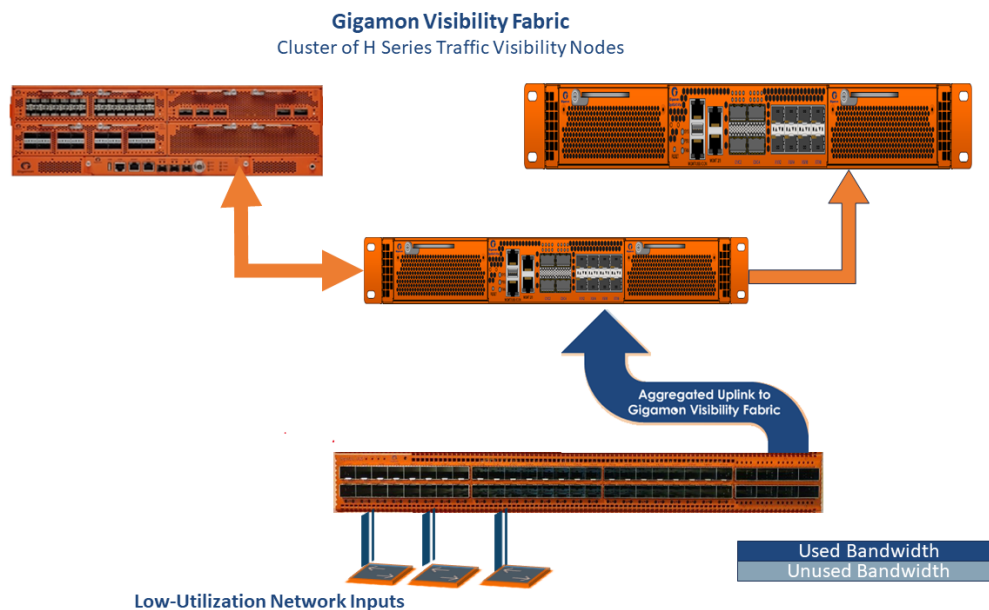
Warning: Fiber Optic Port Safety	32
Avertissement : Sécurité du port fibre optique	33
Replacing Fans	33
Connecting Serial Console and Mgmt Ports	33
Configuring Basic Settings	34
Access the Command-Line Interface over the console Port	34
Port Licensing	38
GigaVUE-TA25A	38
Enabling Additional Ports	39
Advanced Features Licensing	40
Command-Line Basics	40
Command-Line Modes	40
Entering Commands in the CLI	41
Command-Line Syntax – Entering Commands	42
Config Mode Syntax	43
Paging through CLI Output	43
The Basic Commands	44
Completing the Initial Setup	46
Enter the Configure Command-Line Mode	47
SSH2	47
Advantages of SSH2	48
Changing Host Keys	48
Initial User Account Configuration	48
Changing the admin Account Password	48
Setting Up Some Basic Accounts	49
Configuring the GigaVUE TA Series Host Name	50
Configuring GigaVUE TA Series Node's Time Options	50
Configuring Internet Explorer for Use with GigaVUE-FM	50
Configuring Automatic Email Notifications	51
Using a Custom Banner	53
Saving Changes	54
Connecting Ports on GigaVUE®TA Series	54
Transceiver—Rules and Notes	54
BiDi Optics Considerations	55
Transceiver Installation Instructions	55
MPO Cabling	55
MPO/MTP 12 Position Fiber Cable for Use with SR4 Transceivers	56
MTP/APC 12 Position Fiber Cable for Use with QSFP+ PLR4	
Transceivers	56
MPO/MTP 24 Position Fiber Cable for Use with SR10 Transceivers ..	56
GigaVUE®TA Series Specifications	57
Physical Dimensions and Weight	57
Power Requirements	58
Fan Tray Specification for GigaVUE-TA25	58

Environmental Specifications	58
Compliance	59
Safety	59
Emissions	59
Immunity	60
Environmental	60
Security	60
BSMI RoHS	61
VCCI	61
Warranty	62
Regulatory Label	62
NEBS Level 3 Compliance	62
Installation Instructions	63
Intrabuilding or Intra-connection for GigaVUE-TA25	63
Intrabuilding Ports (RJ45)	63
Class A2 Voltage Accessibility	63
Class B Voltage Accessibility	63
Equipment Grounding Systems	63
Communication Equipment Grounding	64
Bonding of Battery Return (BR) Input Terminals	64
Connections	64
Input AC/DC Voltage	65
Commercial Power Ports	65
Maintenance	65
Maintenance	65
Glossary	66

GigaVUE TA Series Overview

GigaVUE TA Series nodes combine traffic from multiple low-use links before sending it to GigaVUE HC Series in your Gigamon Deep Observability Pipeline.

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



Featured topics:

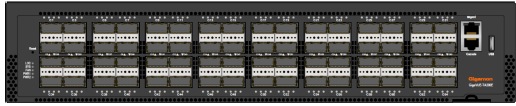
GigaVUE TA Series Nodes

GigaVUE TA Series includes the following models:

GigaVUE-TA25

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



GigaVUE-TA25E	▪ 1 RU Footprint ▪ 48 25Gb/10Gb/1Gb ports and 8 100Gb/40Gb port, dual hot-pluggable power supplies (AC/DC), four rear hot-swappable fan modules, two console ports, and a 10M/100M/1G management port. ▪ Optional patch or breakout panel support ▪ Cluster with GigaVUE HC Series nodes 
GigaVUE-TA100	▪ 1RU Footprint ▪ 32 100Gb/40Gb 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 100Gb/40Gb 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	▪ 2 RU Footprint ▪ 64 QSFP28 ports (40G/100G), 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 400Gb /100Gb/ 40Gb QSFP-DD/ QSFP28/QSFP+ ports, dual hot-pluggable power supplies (AC/DC), seven rear hot-swappable fan modules, console port and a 10M/100M/1G management port.**
- **Cluster with GigaVUE 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 rack or end of 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.
- All ports of 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.

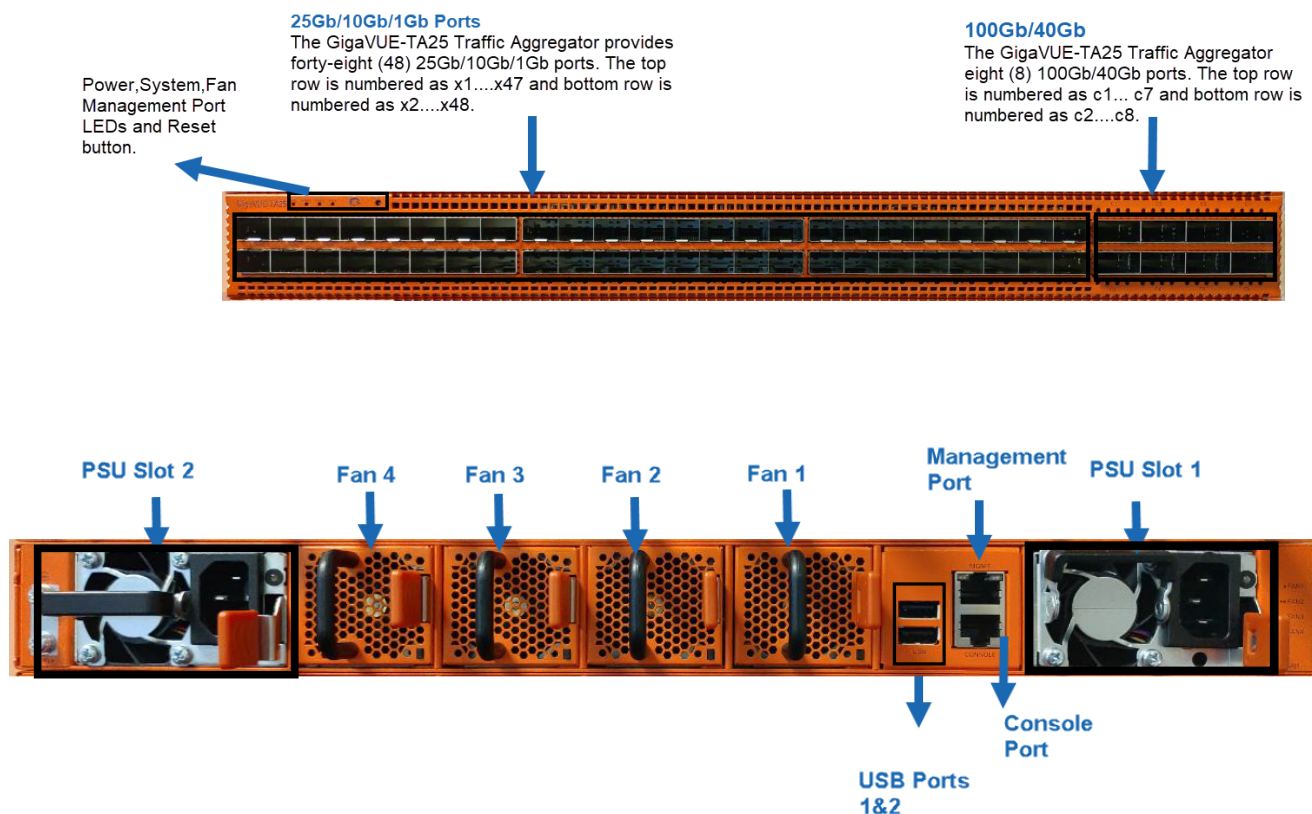
Standard GigaVUE HC Series Features

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-TA25 has forty-eight (48) 25Gb/10Gb/1Gb ports and eight (8) 100Gb/40Gb ports enabled. The GigaVUE TA Series nodes make it easy to leverage the system's 10Gb or 40Gb port density, aggregating multiple underused 40Gb/10Gb/1Gb network ports to 40Gb/10Gb tool ports for uplink to the Gigamon Deep Observability Pipeline.
Clustering	The GigaVUE-TA25 can cluster with other GigaVUE HC Series nodes. This allows you to take advantage of the benefits 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-TA25 Chassis

The GigaVUE-TA25 chassis consists of a 1RU, rack-mountable, 19" wide chassis with network, tool ports at the front and power connections, management, console ports at the rear. Refer to [GigaVUE-TA25 Ports and Description](#) for a description of each of the ports.



GigaVUE-TA25 Ports and Description

Port	Description
Management	Use the Mgmt port for remote configuration of the GigaVUE-TA25 Traffic Aggregator over a 10/100/1000 Ethernet network. Refer to installation guide for information on establishing an SSH configuration session with the GigaVUE-TA25 Traffic Aggregator.
Console	Use the Console port for local configuration of the GigaVUE-TA25 Traffic Aggregator over a serial connection. The serial settings are 8N1,115,200 bps. Refer to installation guide for information on establishing a serial configuration session with the GigaVUE-TA25 Traffic Aggregator in a terminal window.
Ports x1...x48	The GigaVUE-TA25 provides 48 25Gb/10Gb/1Gb ports. For details about the supported transceivers and cable type, refer to “ GigaVUE-OS Compatibility and Interoperability Matrix ”. The 24-port GigaVUE-TA25 is called GigaVUE-TA25A. Refer to installation guide for

Port	Description
	license information to expand the 24-port GigaVUE-TA25A to 48 ports, and to enable eight (8) 100 Gb/40 Gb ports.
Ports c1...c8	GigaVUE-TA25 also includes 8 x 100Gb/40Gb ports (c1..c8). In addition, you can also configure port modes that let either two (c1 and c5) of the 100Gb/40Gb ports operate as four logical 25Gb/10Gb ports . Once a 100Gb/40Gb port has been configured to operate as four 25Gb/10Gb ports, cable it to an optical patch panel or breakout panel, which takes a QSFP28/QSFP+ input from the GigaVUE-TA25 and splits it to four independent 25Gb/10Gb output ports. The c1 and c5 ports accept QSFP28/QSFP+ connections using 100G/40G SR and PLR4 transceivers.
Reset Button	This button on the front panel next to Gigamon logo allows you to reset GigaVUE-TA25 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 " GigaVUE-OS Compatibility and Interoperability Matrix ".

Chassis Cooling

The fans on the run at 100% of their maximum speed on power up. During normal operations, they drop to approximately 60%. The system monitors the temperatures of four components: transceivers, exhaust, CPU, and switch CPU.

When a component crosses a pre-defined threshold, the system adjusts the fan speed dynamically, in increments of approximately 10%. It sends an SNMP trap when a component reaches the threshold for warning or critical temperature conditions.

For details, refer to [Component Temperature Thresholds and Actions](#).

Component Temperature Thresholds and Actions

Transceiver Temperature	Exhaust Temperature	CPU Temperature	Switch CPU Temperature
70°C	85°C	90°C	100°C
Warning trap sent	Warning trap sent	Warning trap sent	Warning trap sent
80°C	90°C	95°C	105°C
Alert trap sent; Transceiver power disabled	Alert trap sent	Alert trap sent	Alert trap sent; Switch CPU put in reset
95°C	95°C	100°C	110°C
Critical trap sent	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:

```
(config) # show environment*** Box 1 (TA25-Chassis) ***
-----
Power Module 1 (PWR-TAX21):
12v voltage           : 12.46 V
0.95v voltage         : N/A
Sense voltage         : N/A
-----
Power Module 2 (PWR-TAX21):
12v voltage           : 0.0 V
0.95v voltage         : N/A
Sense voltage         : N/A
-----
Fan tray 1 (FAN-TAX20):
1st fan               : 12061 RPM
2nd fan               : 12024 RPM
-----
Fan tray 2 (FAN-TAX20):
1st fan               : 12061 RPM
2nd fan               : 11951 RPM
-----
Fan tray 3 (FAN-TAX20):
1st fan               : 12024 RPM
2nd fan               : 12061 RPM
-----
Fan tray 4 (FAN-TAX20):
1st fan               : 11988 RPM
2nd fan               : 11951 RPM
-----
Card 1 (TA25-C8X48):
Intake temperature    : 30 C
Exhaust temperature   : 24 C
CPU temperature       : 28 C
Switch CPU temperature : 39 C
=====
```

The output of the following CLI command displays the transceiver temperature:

```
(config) # show port params port-list 1/1/c1..c2
```

Parameter	1/1/c1	1/1/c2
Name Alias:	-	-
Type:	network	network
Admin:	disabled	enabled
Fec:	NA	c191
Ude:	N/A	N/A
Link status:	-	up
Auto Negotiate:	off	off
Duplex:	-	full
Speed (Mbps):	-	100000
MTU:	9400	9400

Force Link Up:	off	off
Port Relay:	N/A	N/A
Port Role:	N/A	N/A
Ingress Vlan Tag:	-	-
Egress Vlan Tag:	none	none
Buffer Index:	default	default
Discovery:	off	off
GDP:	disable	disable
SFP present:	yes	yes
SFP type:	qsfp+ sr	qsfp28 sr
SFP vendor name:	GIGAMON QSF-502	GIGAMON Q28-502
SFP vendor PN:	GMONQ85S-NGM	GMONC85S-NGM
SFP vendor SN:	INGBT8030260	INGBL5673819
SFP Power (1-2) (dBm):	-3.66 -3.63	0.05 -0.69
SFP Power (3-4) (dBm):	-40.00 -40.00	0.02 -0.48
SFP Power (5-6) (dBm):	- -	- -
SFP Power (7-8) (dBm):	- -	- -
SFP Power (9-10)(dBm):	- -	- -
SFP Temperature (C):	28.00	30.00
Alarm THld (H-L)(dBm):	N/A	N/A
Alert THld (H-L)(dBm):	N/A	N/A
Power THld Status:	N/A	N/A
Comment:		

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 the switch and is operating normally.
- Solid AMBER: Indicates that the PSU has failed.
- Blinking AMBER: Indicates that the PSU is removed.
- 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
- Blinking GREEN: Indicates the node is booting.
- Solid AMBER: Indicates system failure.
- Off: Indicates no power

Fan LED

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

- Solid GREEN: Indicates all fans are operating normally.
- Solid AMBER: Indicates fan has failed.

The fan LED at the rear of the chassis is as follows:

- Solid GREEN: Indicates fan is operating normally

Port Status LED

The Port LED operates as follows:

- AMBER: Indicates the port is administratively disabled
- GREEN: Indicates the link is operationally up
- Off: Indicates the link is operationally down
- Blinking GREEN: Indicates the port is operationally up and the traffic is flowing through the port

NOTE: When SFP-501 (1 Gbps Copper Transceiver) is inserted, the following LED status appears;

The Link light

- Turns AMBER even if the port is administratively enabled.
- Turns Off if the port is administratively disabled.

NOTE: When Copper Cable is connected, the following LED status appears;

The Link light

- Turns GREEN when the port is enabled administratively.
- Turns OFF when disabled administratively.

PSU LED

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

- GREEN: Indicates the PSU is operating normally and is receiving good AC input.
- Solid AMBER: Indicates the PSU is not operational and is not receiving any AC input.

AMI_BIOS_Images

The GigaVUE-TA25 has an AMI Basic Input/Output System (BIOS). The BIOS image is packaged with the software image. The system stores the BIOS contents in flash memory that allows the BIOS to upgrade. It contains two flash components, a primary and a secondary.

Use the following CLI command to display the two flash components and indicate the BIOS image from which the system booted using asterisks:

```
(config) # show version
```

```
1st flash version: amibios-ta25-1.1.2 Tue. May 12 15:55:13 UTC 2020 **
2nd flash version: amibios-ta25-1.1.2 Tue. May 12 15:55:13 UTC 2020
SW BIOS version:   amibios-ta25-1.1.2 Tue. May 12 15:55:13 UTC 2020
...
```

If the primary flash fails, the GigaVUE-TA25 boots from a backup golden BIOS image in the secondary flash. You can configure the system to send an SNMP trap when booting from the secondary flash. The trap may indicate that the primary flash component requires service. The trap is explained below.

2ndflashboot: Secondary flash boot notification

Air Flows Directions

The air flow direction is from the front of the GigaVUE-TA25 chassis to the rear. The rear-mounted 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-TA25 Models

Gigamon provides both AC and DC-powered versions of the GigaVUE-TA25. Refer to [Connecting -48V DC Power Supplies](#).

Battery Caution

A disposable, non-rechargeable, Real Time Clock (RTC) Lithium metal coin cell battery is in the GigaVUE-TA25.

Note the following:

- Replacing the battery with an incorrect type can lead to fire.
- Use only CRI220 type Lithium manganese dioxide button battery and replace with the same.

GigaVUE-TA25 Rules and Notes

Keep in mind the following notes and rules when using GigaVUE-TA25:

GigaVUE-TA25 Rules and Notes	
Transceivers	Supports all Gigamon labeled 1Gb, 10Gb, 25Gb, 40Gb and 100Gb optics. For details about the supported transceiver, cable type, and connectivity specifications, refer to “GigaVUE-OS Compatibility and Interoperability Matrix” .
Network, Tool, Hybrid, Stack Port, Inline Network and Inline Tool ports	All GigaVUE-TA25 ports can operate as network, tool, hybrid, circuit, stack-link, Inline Network and Inline Tool ports. The 4x10Gb and 4x25Gb ports also support all port types. NOTE: On GigaVUE-TA25, breakout subports support all port types. Only C1, C5 ports support 4x10Gb, 4x25Gb breakout modes. Note: For 1Gb fiber ports, auto-negotiation is not supported on Gigamon Platforms. Stack port type is also not supported on 1Gb ports. NOTE: Advanced feature license is required for stack and circuit port types.
Map Rules and Port Filters	The GigaVUE-TA25 supports 256 map rules per chassis and 20 egress port filters per chassis, without advanced feature license. For details about the maximum map rule with advanced feature license, refer to the table in the Flow Mapping FAQ .

GigaVUE-TA25 Rules and Notes

Port Licensing	On GigaVUE-TA25 all ports are enabled. For GigaVUE-TA25A upgrading with port license will enable the additional ports. Refer to Port Licensing.
Cluster Licensing	Connecting a GigaVUE-TA25 to a cluster requires the Advanced Features License.
Legacy Cluster/ Stacking	Remember that the GigaVUE-TA25 is not part of destination ports of first level maps if source port is on non GigaVUE-TA25 node (i.e. “to” ports list cannot contain combination of VPort and GigaVUE-TA25 destination port if any of the from ports are non GigaVUE-TA25 ports) in legacy cluster. This is not applicable when the source port is on another GigaVUE-TA25 node. NOTE: This limitation is not applicable starting from 6.3 release version. Workarounds for Releases Prior to 6.3: • Upgrading the cluster to default / E-Tag stacking mode available from GigaVUE-OS release 5.16 onwards. • Separating GigaVUE-TA25 tool port from VPort in the same map into 2 maps using intermediate hybrid port(s), or • Converting the GigaVUE-TA25 tool port(s) to hybrid port(s) and adding a second map back to the VPort. • Utilizing Fabric Maps.

Breakout Modes

GigaVUE TA Series supports the port breakout modes. GigaVUE-TA25, GigaVUE-TA25E,, GigaVUE-TA200, GigaVUE-TA200E and GigaVUE-TA400 allow port breakout mode. Refer to [Configure the Port Mode](#) for further details.

Configure the Port Mode

The port breakout modes are as follows:

Port Breakout Mode	Applies to Nodes	Breakout option for
4x10Gb	, GigaVUE-TA200, GigaVUE-TA200E, GigaVUE-TA25, GigaVUE-TA25E and GigaVUE-TA400.	4 x 10Gb breakout option for 40Gb ports
4x25Gb	GigaVUE-TA200, GigaVUE-TA200E, GigaVUE-TA25, GigaVUE-TA25E and GigaVUE-TA400	4 x 25Gb breakout option for 100Gb ports
4x100Gb	GigaVUE-TA400	4x100Gb breakout option for 400Gb ports
none	Default mode for GigaVUE TA Series	Alert trap sent

Any of the following can operate at 40Gb with QSFP+ SR transceivers:

- 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)
- Any ports in GigaVUE-TA400

You can split a 40Gb port into four 10Gb ports, called subports. On GigaVUE-TA25, only ports C1 and C5 support 4 x 10G breakout mode. All the subports in a breakout share the same speed (10Gb).

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

Maximum number of 10Gb subports per model

- GigaVUE-TA200 - 128 (32 x 4)
- GigaVUE-TA200E - 128 (32 x 4)
- GigaVUE-TA25 - 8 (2 x 4)
- GigaVUE-TA25E - 32 (8 x 4)
- GigaVUE-TA400 - 128 (32 x 4)

You can split 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 into four 25Gb ports, called subports. In GigaVUE-TA25, only the ports C1 and C5 support 4 x 25Gb breakout mode.

All subports in a breakout share the same speed (25Gb). The system appends x1 to x4 to the port ID for each subport. For example, if you configure port 1/1/C2 on a GigaVUE-TA200 for 4x25Gb mode, the subports are:

- 1/1/C2X1
- 1/1/C2X2
- 1/1/C2X3
- 1/1/C2X4

Maximum number of 25Gb subports

- GigaVUE-TA200 - 128 (32 x 4)
- GigaVUE-TA200E - 128 (32 x 4)
- GigaVUE-TA25 - 8 (2x 4)
- GigaVUE-TA25E - 32 (8x 4)
- GigaVUE-TA400 - 128 (32 x 4)

In **4 x25Gb**, the subports can function as network, tool, stack, circuit, and hybrid ports. You can activate GigaStreamport members in the tool, stack, and hybrid port types.

Follow the 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

To mount and run a GigaVUE TA Series Traffic Aggregator see the instructions in the topics below.

Unpacking the GigaVUE TA Series Traffic Aggregator

To unpack:

1. Unpack the GigaVUE TA Series Traffic Aggregator. Inspect the shipping carton for damage. If you find damage, file a claim with the carrier.
2. Remove the protective shipping covers and screws. Save the covers, and replace the screws in the chassis so you can reuse them if you need to ship the system again.
3. Select a suitable rack location for the GigaVUE TA Series Traffic Aggregator. Choose a clean, dust-free, well-ventilated area with access to a grounded power outlet. Avoid areas with heat sources, electrical wiring, or strong electromagnetic fields.
4. Plan for at least 25 inches of clearance in front of the rack to open the front door fully. Leave enough space behind the rack for proper airflow.

Rack-Mounting the GigaVUE TA Series

This section describes how to rack-mount 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.

Safety Precautions

A wide variety of racks is available. Before installing the GigaVUE TA Series Traffic Aggregation node, read the instructions of the rack vendor.

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

- Install any stabilizers provided for the rack to prevent it from tipping 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.

GigaVUE TA Series Traffic Aggregation nodes are shipped with rack ears for front-mounting or rear-mounting ([Figure 1GigaVUE TA Series Traffic Aggregator Rack Ears in Front-Mount Position](#)) in either a two-post or four-post rack.

Two-Post Rack Methods:

Most GigaVUE TA Series Traffic Aggregation nodes either front or rear mounted using the rack ears as shown below.

NOTE: Note: GigaVUE-TA200, GigaVUE-TA25 and GigaVUE-TA400 can only be front mounted.

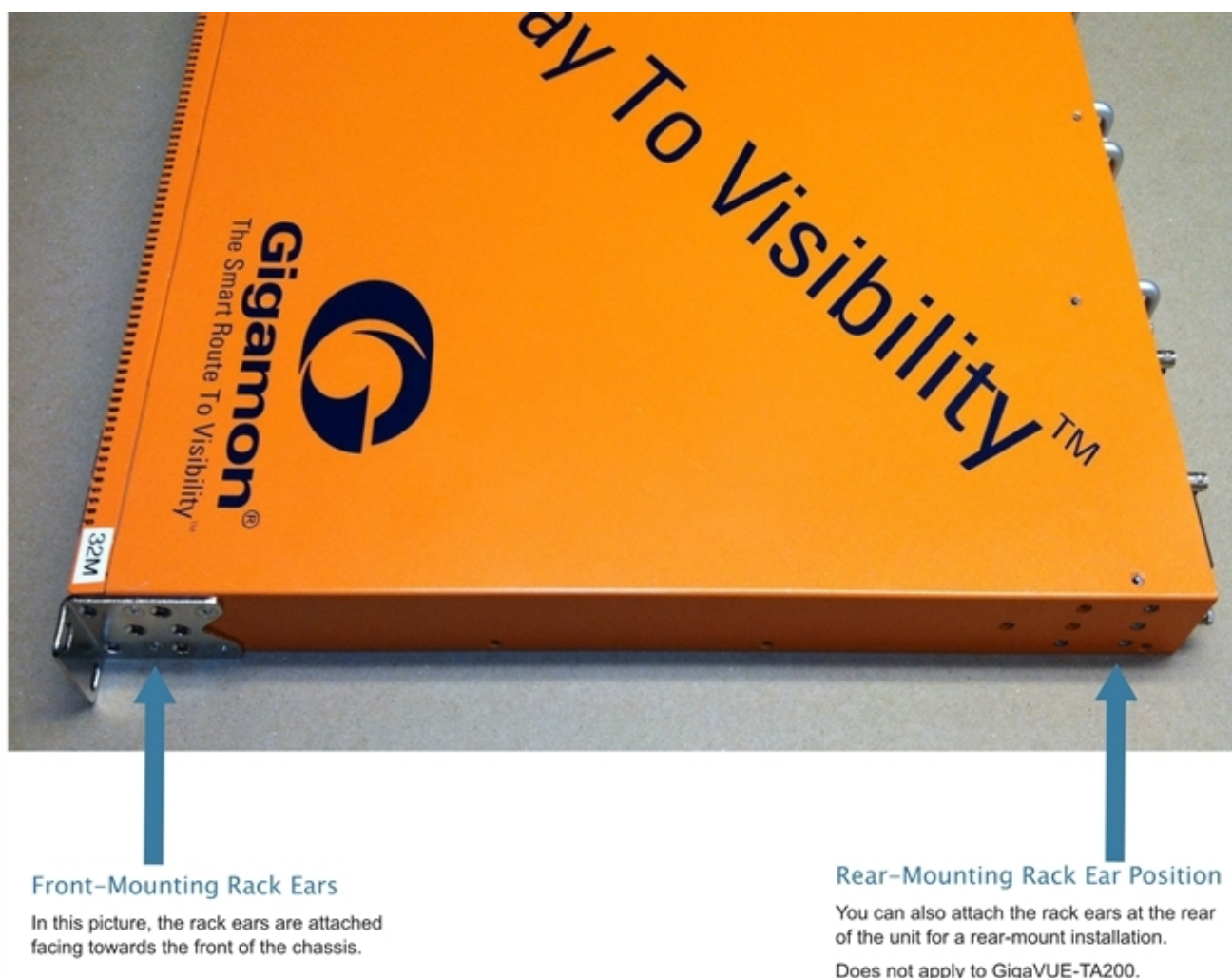


Figure 1 GigaVUE TA Series Traffic Aggregator Rack Ears in Front-Mount Position

To mount the GigaVUE TA Series Traffic Aggregation node in a rack:

1. Attach the orange rack ears to the front or rear of the unit (rear mounting does not apply to GigaVUE-TA200, GigaVUE-TA25 and GigaVUE-TA400) using the supplied screws.

As shown in [Figure 1GigaVUE TA Series Traffic Aggregator Rack Ears in Front-Mount Position](#), you can attach the rack ears for a front-mount or rear-mount installation. Select the installation that best fits the needs. For example, one position may provide better clearance for rack doors at the front of the chassis.

2. While one person supports the weight of the unit with the rack ears flush to the chassis, a second person can attach the ears to the rack with the supplied screws.

Four-Post Rack Methods:

GigaVUE TA Series Traffic Aggregation nodes also come with a pair of full length mounting rails. You can use these rails for four point mounting on four-post racks. You can use the keyhole rivets on the sides of each node to adjust the fit of the node to the desired position or dimension on the rack.

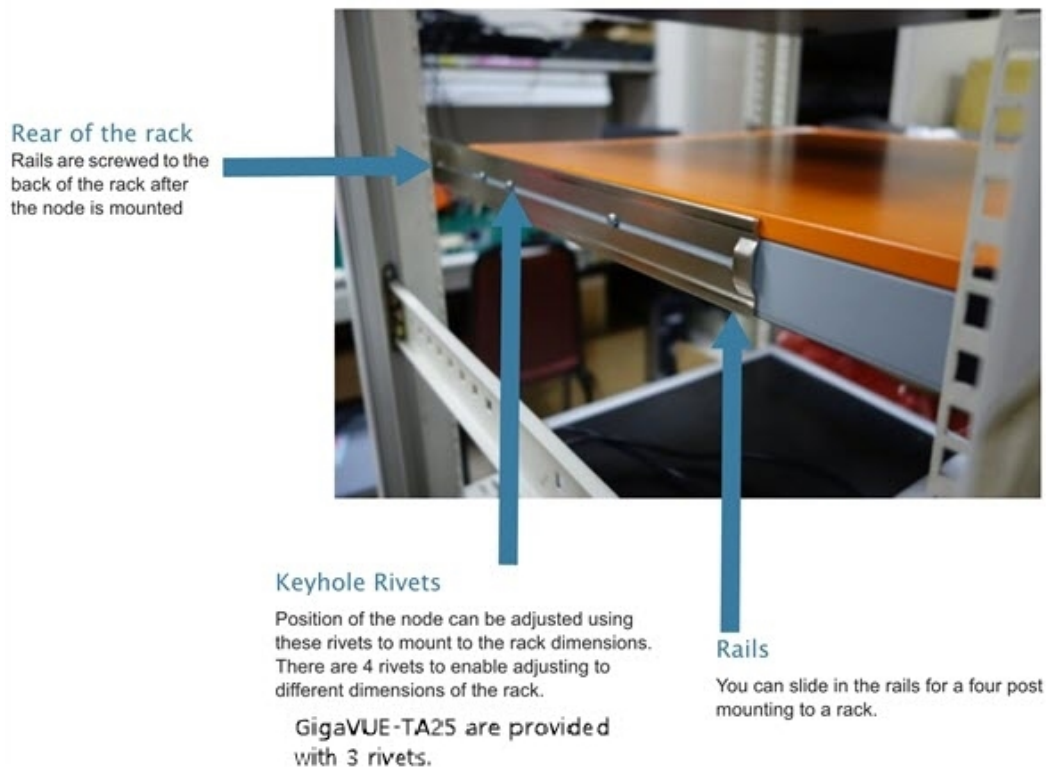


Figure 2 GigaVUE TA Series Traffic Aggregator with Rail Mounting for Four-Post Racks

To mount the GigaVUE TA Series Traffic Aggregation node in a four-post rack:

1. Attach the orange rack ears to the front of the unit using the supplied screws.



Figure 3 Front View of the Mounted Node to the Four-Post Rack

2. Slide in the provided rails on to the node. You can adjust the position of the rails to fit the rack's dimensions. To adjust, once set in the desired position, slide over the rivets and place them securely.



Figure 4 Rear View of the Mounted Node and Rails on the Four-Post Rack

3. Tighten the rails to the rear posts using the supplied screws.

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 TA Series Chassis



The GigaVUE TA Series chassis is drilled for ground screws at the rear of the chassis. Connect grounding wire with spade lugs to the ground screws on the chassis and earth ground using the following procedure.

To ground the GigaVUE-TA25,

1. Locate the grounding holes at the rear of the chassis. Refer to [Grounding the GigaVUE TA Series Chassis](#) or [Figure 6 Ground Screws \(GigaVUE TA Series-Shown\)](#).



Figure 5 Ground Screws (GigaVUE TA Series Shown)



Figure 6 Ground Screws (GigaVUE TA Series-Shown)

2. Install ground screws meeting the following specifications:
#8 Panhead, Phillips-drive, Exterior SEM screw Thread size = 32 Length = 1/2in (1.27cm)
3. Connect grounding wire with spade lugs both to the ground screws and to earth ground. The specifications for the ground wire and lugs are as follows:
Standard Wire 14 (AWG); Stud Size #6 (0.138in/0.351cm); Spade Width 0.32in/0.813cm
4. Tighten the screws to secure both the chassis ground screws and the earth ground screws.

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. You can connect the strap to one of the following:
 - 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

Perform the following steps to supply power to the GigaVUE-TA25 node:

1. Plug an approved C13 power cable (C15 power cable for GigaVUE-TA25) into each of the power supplies at the rear of the GigaVUE-TA25 as shown in [Figure 7 Connecting AC Power](#) to [Figure 9 Connecting AC Power on a GigaVUE-TA25](#).

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



Figure 7 Connecting AC Power



Figure 8 Connecting AC Power on a GigaVUE TA Series-TA100



Figure 9 Connecting AC Power on a GigaVUE-TA25

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

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

NOTE: For information on the GigaVUE TA Series power requirements, refer to [Power Requirements](#).

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

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

3. Perform the following:
 - a. Plug in the unit to turn ON power.
 - b. Plug off the unit to turn OFF.

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

For information on connecting to the GigaVUE TA Series command-line interface (CLI), refer to [Connecting Serial Console and Mgmt Ports](#).

Connecting -48V DC Power Supplies

The GigaVUE TA Series Traffic Aggregator has two DC power supplies instead of the standard AC power supply. This section provides instructions for connecting a -48V DC power source to the DC power supplies.

To connect a -48V DC input to the DC power supply:

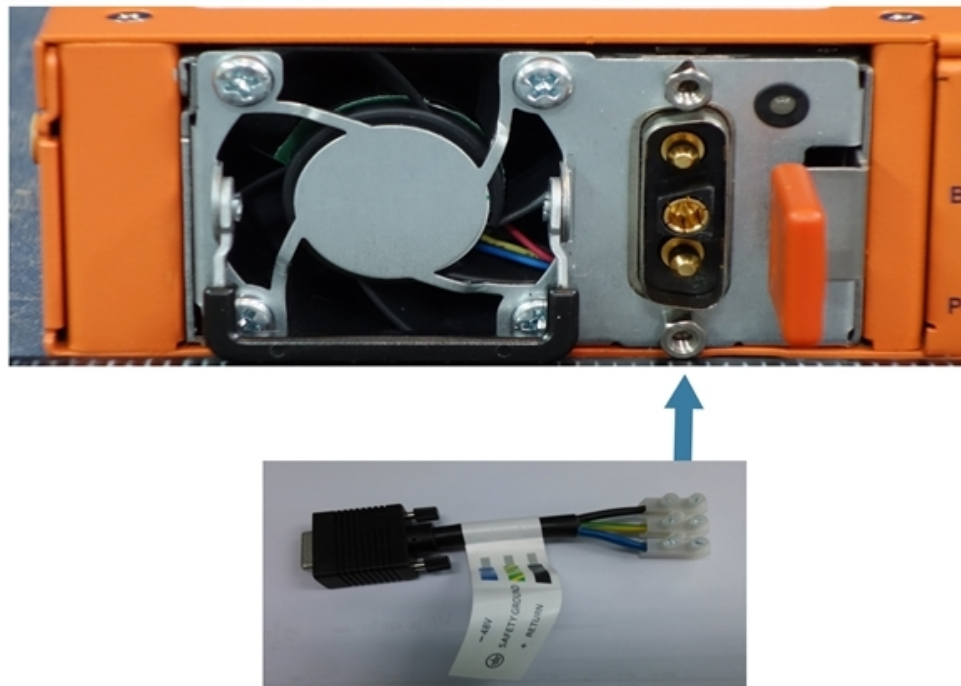


Figure 10 Connecting -48V DC Power Cable Adapter

To connect a -48V DC input to the DC power supply,

1. Plug the DC power cable adapter into the DC power supply. For screw terminal DC power supply, use ring terminal. This does not apply to GigaVUE-TA400.

NOTE: Terminal block supports 10AWG.

2. (Optional) If PSM grounding is required, connect earth ground to the SAFETY GROUND (green/yellow) terminal using a straight blade screwdriver.
3. Connect the positive and negative power wires to the appropriate terminals using a straight-blade screwdriver.
 - o Connect the positive source wire to the + RETURN (black) terminal using a straight blade screwdriver.
 - o Connect the -48V source wire to the -48V (blue) terminal using a straight blade screwdriver.

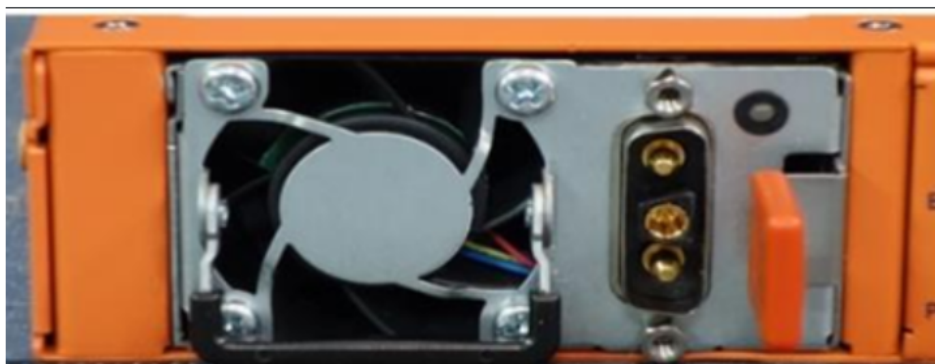
IMPORTANT: The leads to the DC power supply modules on the GigaVUE TA Series node should attach from the side of the chassis **away** from the terminal block. Run the wires to avoid obstructing airflow for the adjacent fans.

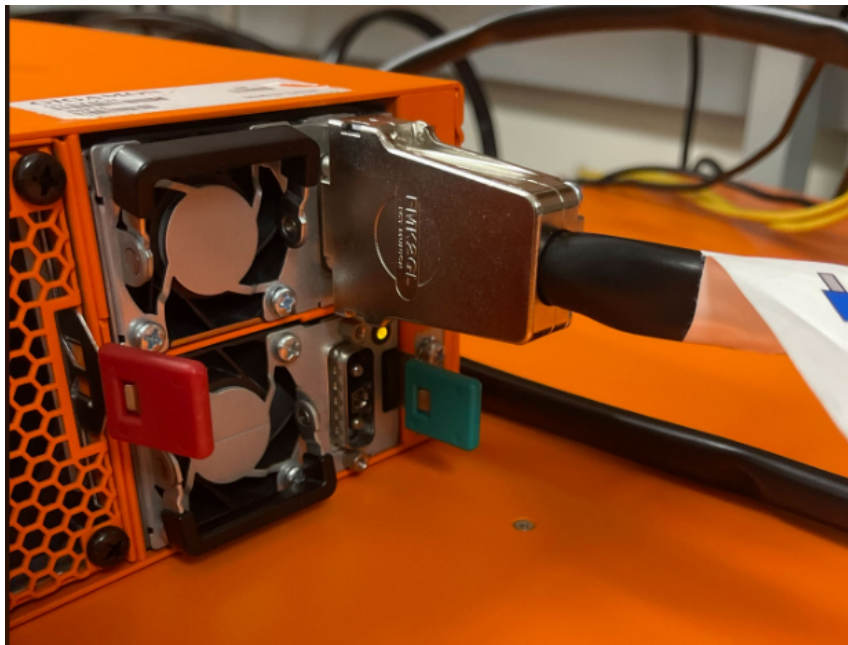
4. Repeat Step 1 through Step 3 for the other power supply modules.

Regional Compliance (Australia and New Zealand Standards)

This section provides guidance to ensure that the DC power cable complies with AS/NZS 5000 and AS/NZS 3015.

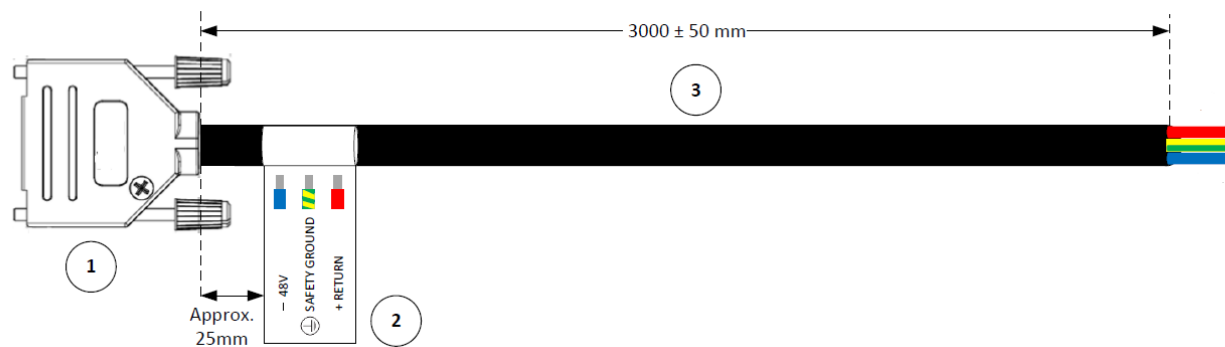
NOTE: For compliance with ANZ standards, the DC cable can be ordered using part number **PCD-00051**. PCD-00051 is supported on GigaVUE-TA25, GigaVUE-TA200, GigaVUE-HC1, and GigaVUE-HC1-Plus (with D-SUB DC connector). This requirement is optional and applicable only within the Australia/New Zealand region.





To connect a -48V DC input to the DC power supply:

Establishing a reliable -48V DC input connection to the power supply involves connector assembly details, cable specifications, and insulation features for optimal performance.



1. D-sub power cable connector assembly featuring a 3v3 type socket, contacts and backshell.
2. The table below outlines the colors and specifications of the negative cable, positive cable, and ground cables.

Cables	Color	Requirements
- 48V cable	Blue	Insulation: PVC Conductor: 10AWG, 6mm ² , 30A
+ Return Cable	Red	Insulation: PVC Conductor: 10AWG, 6mm ² , 30A
Safety ground cable	Green, Yellow	Insulation: PVC, Conductor: 10AWG, 6mm ² , 30A

3. The cable features an outer sheath made of black PVC for enhanced durability and insulation. The cable measures 3000 mm, with a tolerance of ± 50 mm.

NOTE: Insulation material throughout the length of the cable must be rated for 105° C temperature.

Cautions for Power and Ground connections

Caution : Class I Equipment.

You must earth (ground) the GigaVUE TA Series equipment. Connect the power plug to a properly wired, earth-grounded socket outlet. An incorrectly wired outlet could place dangerous voltages on exposed metal parts.

Caution: GigaVUE-TA25.

The -48 to -60 VDC hot-plug power supply is not intended for direct connection to the DC supply branch circuit. Connect this power supply to a certified DC source that provides an independent overcurrent-protected output for each DC power supply.

- Verify that each output overcurrent-protected device in the PDU is:
 - Suitable for interrupting fault current available from the DC power source.
 - Rated no more than 40A.
- Connect the power supply ground screw located on the front of the power supply to a suitable ground (earth) terminal: 8 AWG.
- Make sure to connect this terminal to a suitable building ground (earth) terminal.
Do Not rely on the rack or cabinet chassis to provide adequate ground (earth) continuity.

Restrictions

This product is for installation in a restricted access area. Only skilled and instructed persons with proper authorization should access it. Make sure to control access only by a lock, key, or similar security method.

Only qualified service personnel should open the equipment or handle plug-in power supplies and fan tray modules. **NEVER** open the unit or replace modules unless you are trained and authorized to do so.

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

"SHOCK HAZARD", FIRST TURN OFF POWER AND REMOVE POWER CABLES.



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

Caution: When installing DC Power to GigaVUE-TA25, 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-TA25

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-TA25, 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

Install GigaVUE TA Series nodes in a UL certified Optical Transceiver Module, Laser Class 1. 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 you need further assistance, contact [Gigamon Technical Support](#).

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 failed fan and replace it with a working fan using the procedures in this section.

To remove a fan,

1. Locate lever and handle as shown in [Figure 11 Replacing a Fan \(GigaVUE-TA25 Shown\)](#).

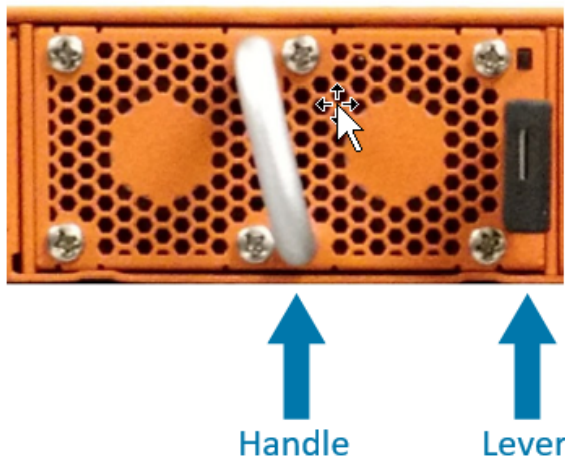


Figure 11 *Replacing a Fan (GigaVUE-TA25 Shown)*

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

To insert a fan:

1. Place the fan in empty slot.
2. Use the handle to slide the fan into the slot.
3. Verify if the fan is fully inserted to lock in place.

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-TA25 node. This cable is called a *console cable*.

NOTE: **NOTE:** This cable is Cisco-compatible.

2. Connect the RJ45 end of the console cable to the **console** port.

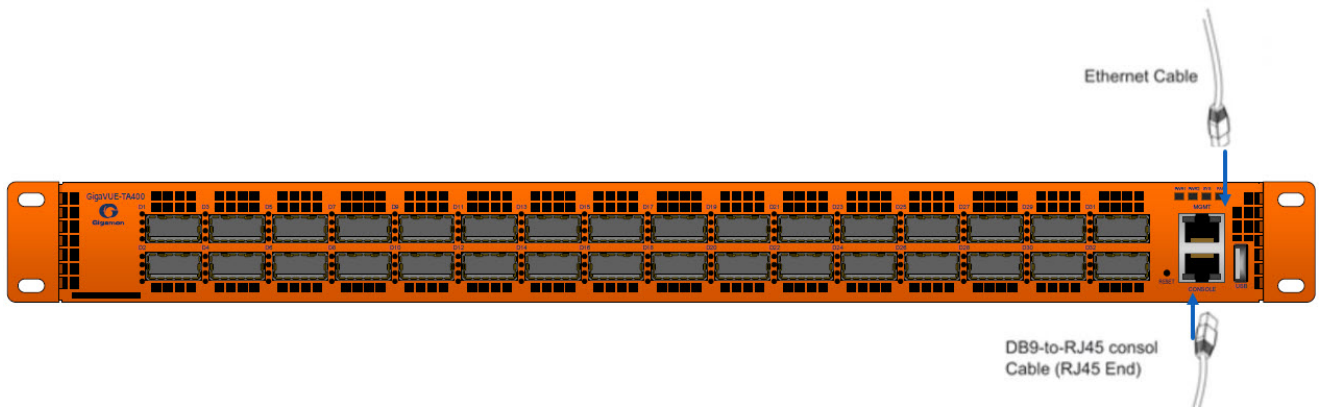


Figure 12 *Connecting the Console and Management Ports*

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 10M/100M/1000M **Mgmt** port.
5. Connect the other end of the Ethernet cable to an Ethernet network.

Configuring Basic Settings

This section describes initializing 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 immediately change the password through the **jump-start** script. For details, 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

Follow these steps,

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:
 - o **Bits per second** – 115,200
 - o **Data bits** – 8
 - o **Parity** – None
 - o **Stop bits** – 1
 - o **Flow control** – None

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

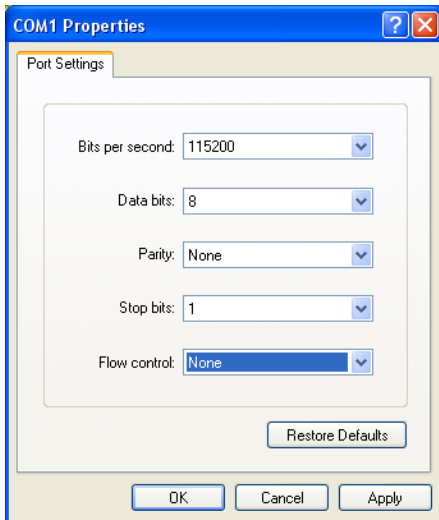


Figure 13 Setting COM Port Properties for the Console Connection

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. For details, refer to [Run the Jump-Start Script](#)

Mandatory standards for a password

- 8-30 characters
- At least one numeral
- At least one upper case letter
- At least one lower case letter ■ 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, and then confirm the password.

Run the Jump-Start Script

Gigamon provides the GigaVUE TA Series nodes with a **jump-start** script that walks you through 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: You can also 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 For information on security refer to the GigaVUE-OS CLI Reference Guide.
Admin Password	Change the password for the admin account 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. For information on setting up a cluster, refer to the <i>GigaVUE-OS CLI Reference Guide</i>. 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 receive a prompt for a box ID only if you did not enable clustering in the previous step.

5. Review your settings. You can specify the listed line number and re-enter the setting to change it.
6. When 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](#).

For a quick summary of the available GigaVUE TA Series commands for GigaVUE TA Series nodes, refer to [Completing the Initial Setup](#).

Port Licensing

All ports are enabled on GigaVUE-TA25.

Additional ports are available through licenses for [GigaVUE-TA25A](#)

Contact your Sales representative for port licenses.

GigaVUE-TA25A

The GigaVUE-TA25 has 25Gb/10Gb/1Gb and eight 100Gb/40Gb ports enabled. It does not require a port license. A twenty-four (24) port GigaVUE-TA25 version, called the GigaVUE-TA25A is available with only the first 24 25Gb/10Gb/1Gb ports active.

- The GigaVUE-TA25A product code is 132-00FK and the GigaVUE-TA25 product code is 132-00FJ.
- A license is needed to expand the GigaVUE-TA25A to include all 48 25Gb/10Gb/1Gb ports as well as the eight 100Gb/40Gb.
- Use the following CLI command to display the GigaVUE-TA25A chassis information:

```
(config) # show chassis
```

```
Chassis:
  Box ID       : 1*
  Hostname     : gigamon-39002e
  Config       : yes
  Mode         : default
  Oper Status  : up
  HW Type      : TA25A-Chassis
  Vendor       : <span class="genVar.brand_name_(Short) mc-variable">Gigamon</span>
  Product Code : 132-00FK
  Serial Num   : M002E
  HW Rev       : 1.1
  SW Rev       : 5.10.00_Beta
  GDP          : disable
```

Enabling Additional Ports

You need a license to enable additional ports. Contact your Sales Representative for information on obtaining a license key. Once you have obtained the license key for additional ports on GigaVUE-TA25A use the following command to install it:

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

where:

- box ID is the box ID of the GigaVUE TA Series node
- license key. Refers to the license key obtained to enable additional ports.

Enable ports before starting to issue commands in the CLI,

1. Connect to the console port as described in the previous section.
2. Wait at least two minutes after the system prompt appears for the system to be initialized and then 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) #**.

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

terminal resize

4. 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 TA Series-TA25A:

```
(config) # port 1/1/q1..q4 params admin enable
(config) # port 1/1/x24..x48 params admin enable
```

5. Save your changes so that ports come up automatically at the next reboot:

```
write memory
```

Advanced Features Licensing

You can cluster GigaVUE-TA25 nodes with GigaVUE TA Series and GigaVUE 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 on:

- 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 14 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.

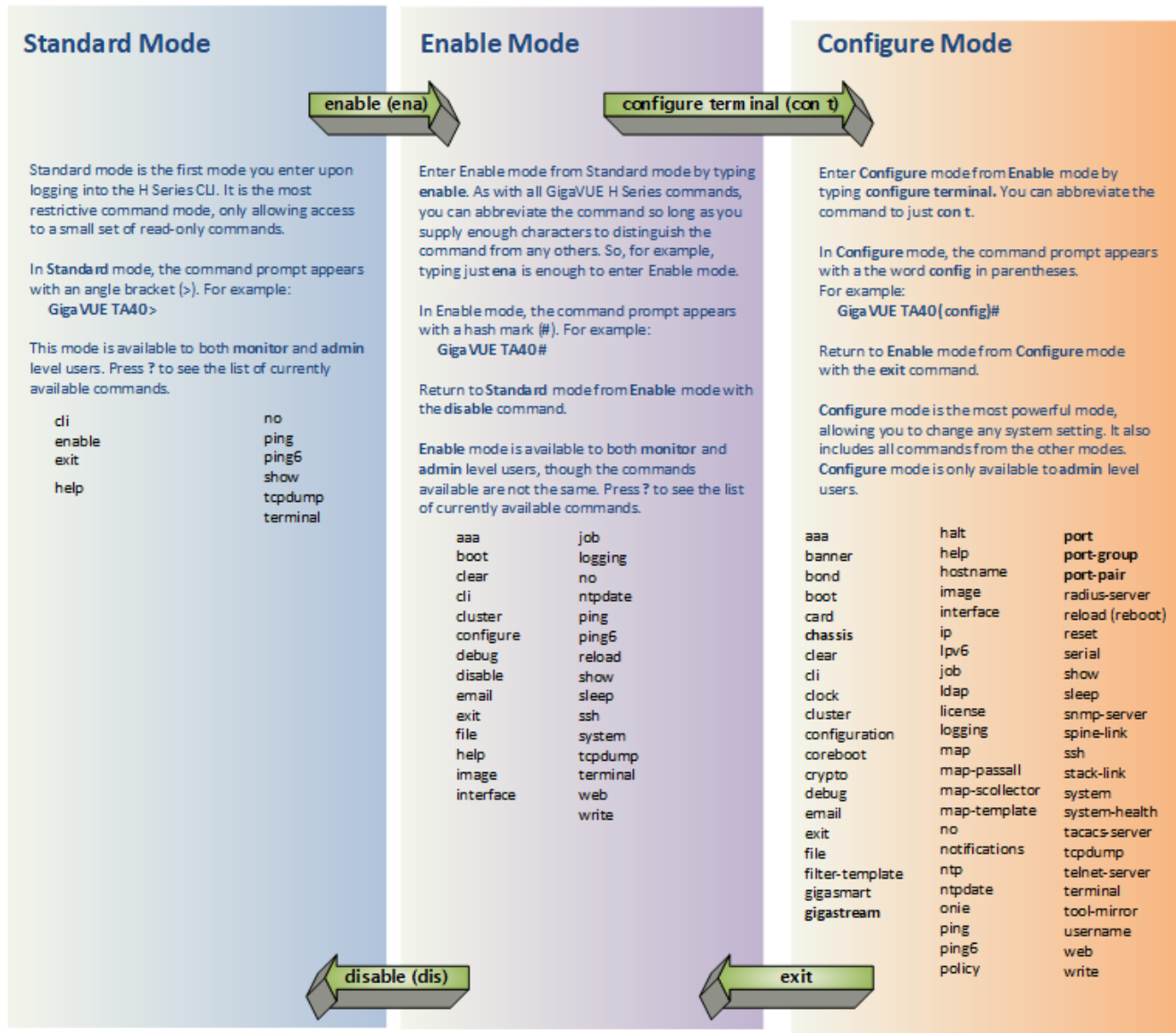


Figure 14 GigaVUE-OS Command-Line Modes

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. Word Help – Type a partial word with a ? mark

Technique	Description
	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>.
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> 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/q12 alias My_Alias** is legal, but **port 1/1/q12 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 15 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

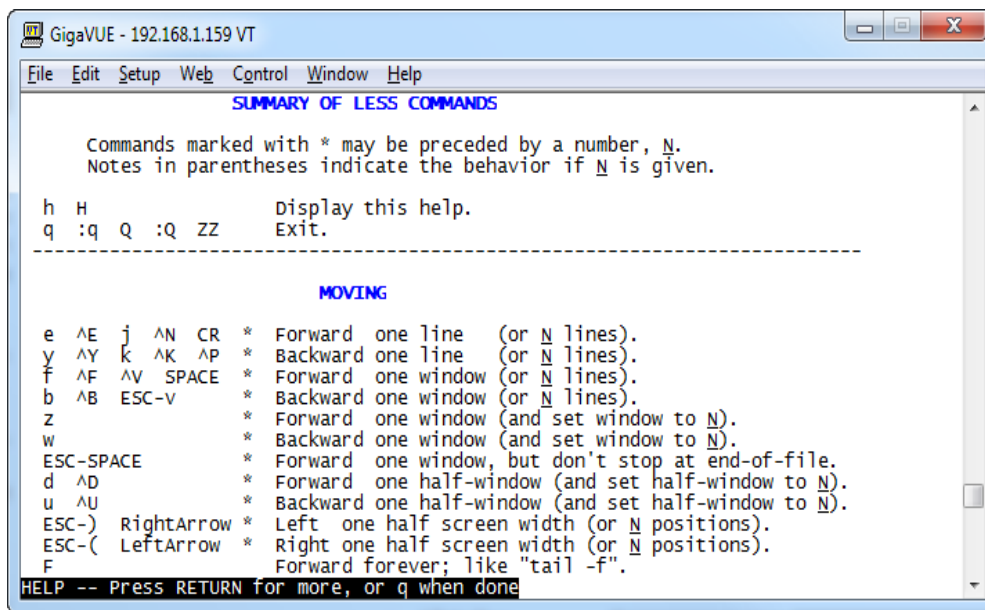


Figure 15 Viewing Paging Options

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.
debug	Generate a dump file for use in debugging issues with Gigamon Technical Support.

Command	Description
<i>disable</i>	Leave Enable mode and return to Standard mode.
<i>email</i>	Configure email and event notification via email.
<i>enable</i>	Enter Enable mode.
<i>exit</i>	Leave Configure mode and return to Enable mode or log out of the CLI.
<i>file</i>	Manage TCP and debug dump files on disk.
<i>filter-template</i>	Configures flexible filter templates on GigaVUE-HC3, GigaVUE-TA100, and GigaVUE-TA25.
<i>gigasmart</i>	Configures a stack port interface to provide Internet connectivity for a GigaSMART card or module.
<i>gigastream</i>	Configure a GigaStream – a group of ports acting as a single addressable tool port destination or stack-link.
<i>halt</i>	Shut down the system without powering it off.
<i>help</i>	View a description of the interactive help system.
<i>hostname</i>	Specify the system's hostname. The hostname appears in the system prompt and in SNMP traps.
<i>ib-pathway</i>	Reserved for future use.
<i>image</i>	Manage system software images.
<i>interface</i>	Configure network interfaces.
<i>ip</i>	Configure IP settings for the eth0 Mgmt port.
<i>ipv6</i>	Configure IPv6 settings for the eth0 Mgmt port.
<i>job</i>	Configure scheduled jobs.
<i>ldap</i>	Configure LDAP server settings for authentication.
<i>license</i>	Activate features using license keys. GigaVUE-TA25 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 and GigaVUE-TA25.
<i>logging</i>	Configure event logging.
<i>map</i>	Configure maps and map rules to manage GigaVUE TA Series traffic distribution.
<i>map-passall</i>	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.
<i>map-scollector</i>	Configure shared collector map parameters.
<i>map-template</i>	Create a map template.
<i>no</i>	Delete or clear certain configuration options.
<i>notifications</i>	Configures notification settings.
<i>ntp</i>	Enable and disable the use of NTP, as well as add NTP servers.
<i>ntpdate</i>	Set system clock once from a remote server using NTP.
<i>ping</i>	Send ICMP echo requests to a specified host.
<i>ping6</i>	Send ICMPv6 echo requests to a specified host.
<i>policy</i>	Configures an active visibility policy.
<i>port</i>	Configure port type, parameters, and filters.
<i>port-group</i>	Create a group of ports.

Command	Description
<i>port-pair</i>	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.
<i>radius-server</i>	Configure RADIUS server settings for authentication.
<i>reload(reboot)</i>	Reboot or shut down the node.
<i>reset</i>	Reset specified portions of the system configuration to their factory states.
<i>serial</i>	Set options for the serial console port.
<i>sfp</i>	Reserved for future use.
<i>show</i>	Display configuration and status information for a wide variety of settings and entities.
<i>sleep</i>	Sleep for a specified number of seconds.
<i>snmp-server</i>	Configure SNMP settings, including the local SNMP server, notification events, and notification destinations.
<i>spine-link</i>	Configures spine links in a cluster with a leaf and spine architecture.
<i>ssh</i>	Enable and disable SSH access, as well as manage settings.
<i>stack-link</i>	Configure a stack-link between two nodes in a cluster. Stack-links are used to carry data traffic between nodes in a cluster.
<i>system</i>	Change system settings.
<i>system-health</i>	Configures system health behaviors.
<i>tacacs-server</i>	Configure TACACS+ server settings for authentication.
<i>tcpdump</i>	Display packets from any eth x port in the node on a network.
<i>terminal</i>	Set terminal parameters, including width and length.
<i>tool-mirror</i>	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.
<i>traceroute</i>	Trace the route packets take to a destination.
<i>tunnel</i>	Reserved for future use.
<i>uboot</i>	Installs new uboot software.
<i>username</i>	Manage user accounts.
<i>web</i>	Configure the Web server used for GigaVUE-FM GUI support on the node.
<i>write</i>	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.

You should perform a few more steps 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

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. You include **no** before the command to disable the corresponding connection, as demonstrated in the table below:

Command	Notes
Enable: (config) # ssh server enable Disable: (config) # no ssh server enable	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: - Start PuTTY and enter the GigaVUE TA Series Traffic Aggregator's IP address in the Host Name field. - Click the SSH protocol radio button. - 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. - 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 can give you the option of trusting the key, adding it to your local cache. Once you've trusted the key, your client alerts you if a different key is presented during connection.

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 nodes, you can:

- Connect over the console port (refer to [Access the Command-Line Interface over the console Port](#)).
- 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 rsa1 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

Follow these steps,

- 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:

- Include 8-30 characters.
- Include at least one numeral
- Include at least one capital letter
- 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

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

Command	Comments
	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 16 Reviewing the User List](#) shows some sample **show usernames** output after several users have been added.

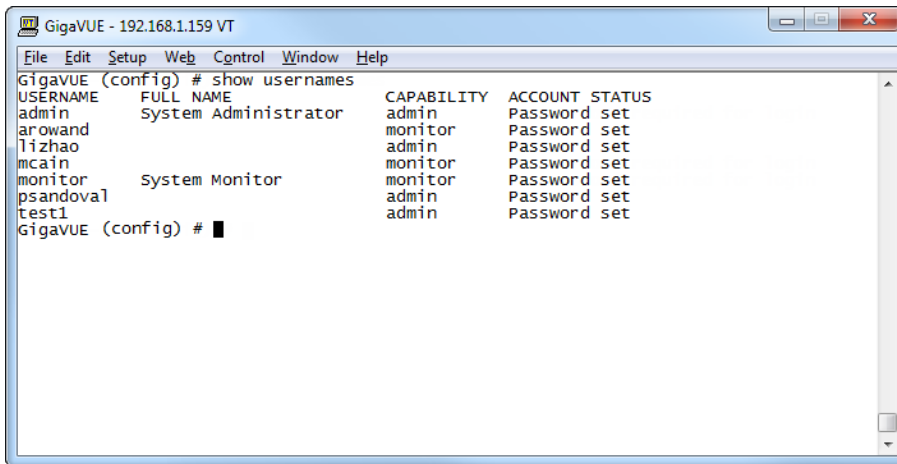


Figure 16 *Reviewing the User List*

Configuring the GigaVUE TA Series Host Name

You can configure the GigaVUE TA Series node's name, date, and time as part of your initial configuration. The command below 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

You can configure the GigaVUE TA Series node's name, date, and time as part of your initial configuration. The command below 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 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	(config) # email notify recipient cday@mycompany.com,mfelton@mycompany.co

Description	Command
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. You can specify multiple destinations, comma-separated with no spaces.	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

Description	Command
You can check your settings and make sure emails are sent successfully. To do that, you can apply 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.	(config) # email send-test
You may also want to configure and enable autosupport emails. Autosupport emails are sent directly to Gigamon 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. 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.	(config) email autosupport enable
That's it! When any selected events occur, emails are automatically sent to the configured addresses. Many other options are available 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 reply-to 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 out.

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

You can 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 are added to the active configuration right away but not 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:
 - Port numbers starting with a c (for example, C1) are 100Gb. They can also support 40Gb depending on the transceiver installed.
 - Port numbers starting with a q (for example, q1) are 40Gb.
 - 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

Due to the complexity of the 40Gb BiDi technology, you can consider several nuances.

Because of the nature of 40Gb BiDi technology, you cannot use the same BiDi optic (Full Duplex or RX-only) in all of the following situations.

For example:

- On SPAN sessions, you
 - Cannot use RX-only BiDi optics.
 - Must use Full Duplex BiDi optics
- 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. You can install or remove them 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 17 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.

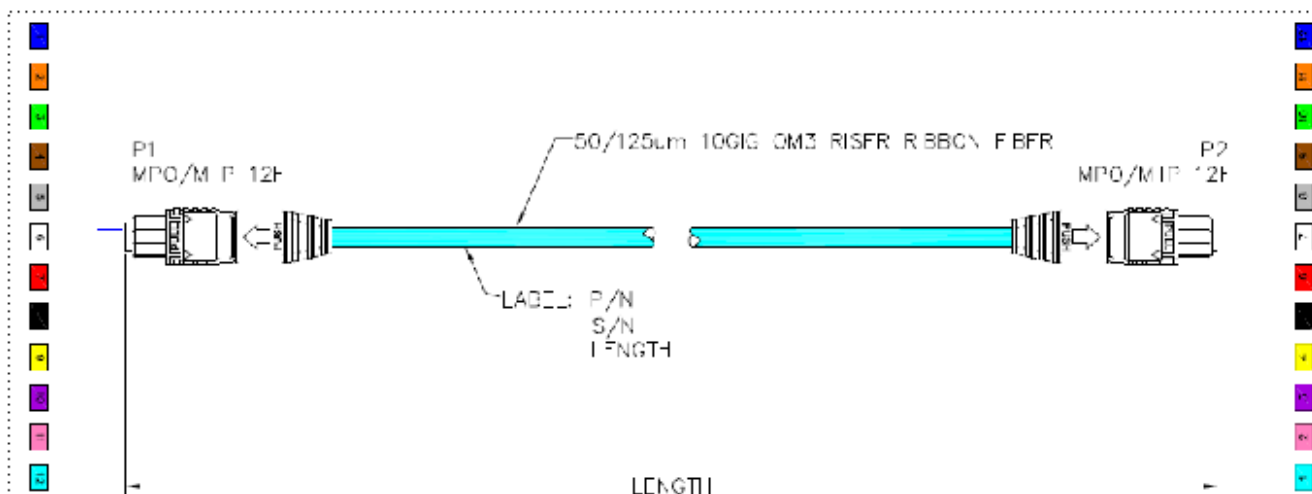


Figure 17 MPO/MTP 12 Position Fiber Cable

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 18 MTP/APC Cable](#) provides details for MTP/APC 12 position fiber cable for use with 40Gb QSFP+ PLR4 transceivers.

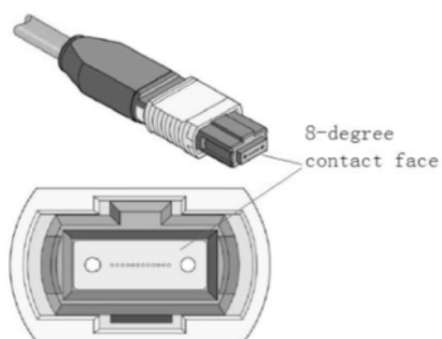


Figure 18 MTP/APC Cable

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 19 MPO/MTP 24 Position Fiber Cable](#) provides cabling details for MPO/MTP 24 position fiber cable for use with 100Gb SR10 CXP transceivers.

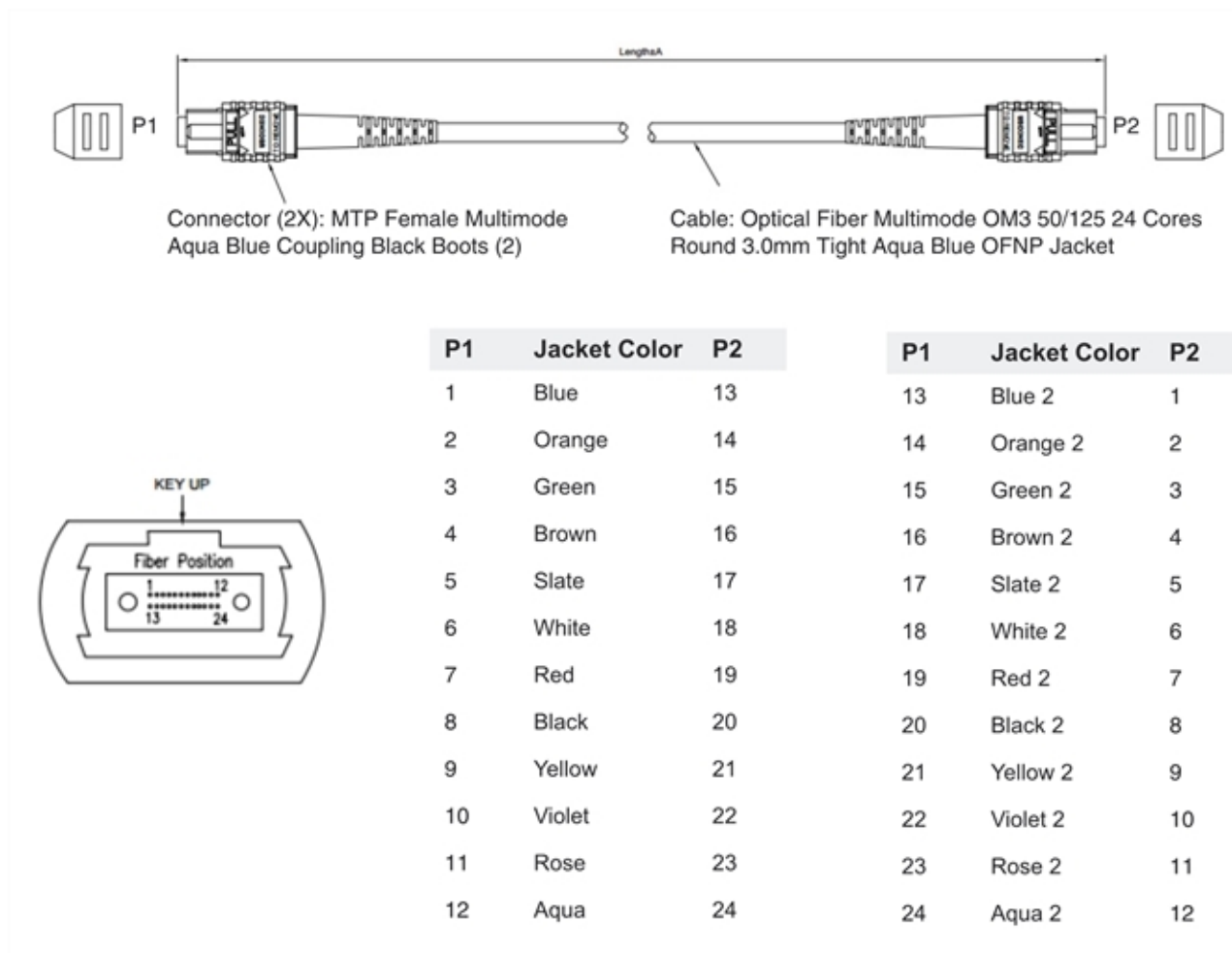


Figure 19 MPO/MTP 24 Position Fiber Cable

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 TA Series Traffic Aggregation node GigaVUE-TA25 :

Product	Height	Width	Depth	Weight (AC Version)
GigaVUE-TA25	1.74in (1RU) (4.42cm)	19.00in (48.26 cm) with ears 17.32in (44cm) without ears	Metal to Metal 18.12in (46.0cm) Including latches 19.25in (48.89cm)	19lb (8.62kg)

Power Requirements

Each GigaVUE TA Series node come standard with dual, load sharing power supplies.

[Table 1: Power Requirements for GigaVUE-TA25](#) lists the electrical characteristics for the GigaVUE TA Series Traffic Aggregation node, GigaVUE-TA25.

NOTE: For instructions on how to connect -48V DC power supplies, refer to [Connecting -48V DC Power Supplies](#)

Table 1: Power Requirements for GigaVUE-TA25

Power Configurations	1+1 Power: 2 Power Supply Modules
Max Power Consumption/ Heat Output	323 Watts; 1102 BTU/hr
AC Power Supply Modules	Min/Max Voltage: 100V–127V AC, 200V–240V AC, 50/60Hz Max PSM Input Current: 8A@100V-127V, 4A@200V-240V
DC Power Supply Modules	Min/Max Voltage: -40.5 to -72V DC Max PSM Input Current (Steady State): 20A@ 48V DC

Fan Tray Specification for GigaVUE-TA25

The GigaVUE-TA25 uses a fan tray for cooling. The below table summarizes the characteristics of the fan tray.

Table 2: GigaVUE-TA25 Fan Tray Specifications

Rated Voltage	12V DC
Input Power	Maximum 18W
Maximum Speed	19000 RPM
Type	Dual axial flow fans

Environmental Specifications

[Table 3: Environmental Specifications for GigaVUE TA Series-TA25](#) summarizes the environmental specifications for the GigaVUE TA Series Traffic Aggregation node.

Table 3: Environmental Specifications for GigaVUE TA Series-TA25

Specification	Value
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Relative Humidity	10% to 90%, non-condensing
Recommended Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Recommended Storage Relative Humidity	15% to 85%, non-condensing
Altitude	Up to 16405ft (5.00km) for , GigaVUE-TA25

Compliance

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

Safety

GigaVUE Traffic Aggregation nodes are compliant with the following safety regulations:

- UL 60950-1, 2nd Edition
- UL 62368-1, 2nd Edition (GigaVUE-TA400)
- CAN/CSA C22.2 No. 60950-1-07, 2nd Edition
- CAN/CSA C22.2 No. 62368-1-14, 2nd Edition (GigaVUE-TA400)
- EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013
- EN 62368-1:2014 (GigaVUE-TA400)
- IEC 60950-1:2005 (2nd Edition) + Am 1:2009 + Am 2:2013
- IEC 62368-1:2014 (GigaVUE-TA400)
- BSMI (GigaVUE-TA200 and GigaVUE-TA400)
- CCC, EAC (GigaVUE-TA100, GigaVUE-TA200 and GigaVUE-TA400)

Emissions

GigaVUE TA Series Traffic Aggregation nodes are compliant with the following emissions regulations:

- FCC Part 15, Class A
- VCCI Class A. Refer to [VCCI](#).
- EN 55032/CISPR 32 Class A
- Australia/New Zealand AS/NZS CISPR-32 Class A
- KCC Class A
- BSMI (GigaVUE-TA200 and GigaVUE-TA400)
- CCC, EAC (GigaVUE-TA200 and GigaVUE-TA400)
- EN 55032:2015+AC:2016, Class A

- EN 61000-3-2:2014, Class A (GigaVUE-TA25E)
- EN 61000-3-3:2013 (GigaVUE-TA25E)
- FCC Class A (GigaVUE-TA25E)
- VCCI Class A (GigaVUE-TA25E)
- CCC GB 9254-2008, Class A (GigaVUE-TA25E)
- BSMI Class A, CNS 13438 (GigaVUE-TA25E)
- EN 55032:2015+AC:2016, Class A (GigaVUE-TA200E)
- EN 61000-3-2:2014, Class (GigaVUE-TA200E)
- EN 61000-3-3:2013 (GigaVUE-TA200E)
- 47 CFR FCC Part 15:2017, Subpart B, Class A CE Mark (GigaVUE-TA200E)

Immunity

GigaVUE TA Series Traffic Aggregation nodes are compliant with the following immunity regulations:

- ETSI EN300 386 V1.6.1:2012 (not applicable on GigaVUE-TA200)
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-8
- EN61000-4-11
- EN61000-3-2
- EN61000-3-3
- EN 55024:2010+A1:2015 (GigaVUE-TA25E)
- IEC 61000-4-2/3/4/5/6/8/11 (GigaVUE-TA25E)
- EN 55024:2010+A1:2015 (GigaVUE-TA200E)
- IEC 61000-4-2/3/4/5/6/8/11 (GigaVUE-TA200E)

Environmental

GigaVUE TA Series Traffic Aggregation nodes are compliant with the following environmental regulations:

- EU RoHS 6, EU directive 2011/65/EU
- NEBS Level 3. Refer to [NEBS Level 3 Compliance](#).

Security

GigaVUE TA Series Traffic Aggregation nodes are compliant with the following security certifications:

- FIPS 140-3 (GigaVUE-TA25). Refer to “FIPS 140-3 Compliance” in the *GigaVUE-OS CLI User's Guide*.

- Refer to [UC APL Compliance](#).
- Refer to [Common Criteria](#).

BSMI RoHS

The RoHS label for Taiwan BSMI for GigaVUE-TA25 is as follows:

設備名稱：乙太網交換機 Equipment name		型號（型式）：GigaVUE-TA25 Type designation (Type)					
單元 Unit	限制物質及其化學符號 Restricted substances and its chemical symbols						
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻Hexavalent chromium (Cr ⁶⁺)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)	
金屬部件 (Metal Parts)	—	○	○	○	○	○	
電路模組 (Circuit Modules)	—	○	○	○	○	○	
塑膠和聚合物部件 (Plastic and Polymeric parts)	○	○	○	○	○	○	
電源元件 (Power Assemblies)	—	○	○	○	○	○	
備考1：“超出0.1 wt %”及“超出0.01 wt %”係指限制物質之百分比含量超出百分比含量基準值。 Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考2：“○”係指該項限制物質之百分比含量未超出百分比含量基準值。 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考3：“—”係指該項限制物質為排除項目。 Note 3: The “—” indicates that the restricted substance corresponds to the exemption.							

VCCI

The Class A Information Technology Equipment (ITE) label for Japan is as follows:

Type of Equipment	User's Guide
A급 기기 (업무용 방송통신기자재)	이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.
Class A Equipment (Industrial Broadcasting & Communication Equipment)	This equipment is Industrial (Class A) electromagnetic wave suitability equipment and seller or user should take notice of it, and this equipment is to be used in the places except for home.

この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

警告使用者:

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

Translation of Statement for Class A VCCI-certified Equipment

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may occur, in which case, the user may be required to take corrective action.

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-TA25**

This area reserved for
Serial Number and Barcode

Change patent numbers to these: 7424018, 7436832, 7440467, 7792047, 7835358, 7889748, 8391286. Other patents pending.

**R-R-GMN-GVS-TA25**
상 호 명: Gigamon Inc.
기자재의 명칭 (모델명): GigaVUE-TA25
제 조 년 월:
제 조 자/제 조 국 : Gigamon Inc. / 대 만



FCC: per section 15.19 (3) of 47 CFR part 15 subpart B Class A
This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:
1) this device may not cause harmful interference, and
2) this device must accept any interference received, including interference that may cause undesired operation.
CAN ICES-3 (A)/NMB-3(A)

Supports dual, redundant, hot-swap power-supplies.
AC CONFIGURATION:
Input (輸入): 100-127 / 200-240V~, 8/4A, 47-63Hz
(for each power supply)
Nom. Power Consumption: 323.0W
Nom. BTU Output: 1102.2 BTU/hr
DC CONFIGURATION:
Input (輸入): -48V ~ -60V / 20A MAX.
(for each power supply)
Nom. Power Consumption: 323.8W
Nom. BTU Output: 1122 BTU/hr
CAUTION: TO COMPLETELY REMOVE POWER FROM THE UNIT, FIRST TURN OFF POWER AND REMOVE POWER CABLES.
Attention : pour déconnecter complètement l'alimentation électrique de l'équipement il est d'abord nécessaire d'appuyer sur le bouton de coupure puis d'enlever les câbles électriques.

**D3B239 RoHS**
警告使用者:
此為非標準資訊技術設備,於居住環境中使用時,可能會造成射頻干擾。在這種情況下,使用者會被要求採取某些適當的對策。
Made in Taiwan
台灣製造/台灣製造
400569-A0

NEBS Level 3 Compliance

This appendix provides installation instructions for GigaVUE-TA25, GigaVUE-TA25E, and GigaVUE-TA200 Network Equipment-Building System (NEBS) Level 3 compliance.

Installation Instructions

The following sections detail installation instructions for GigaVUE-TA25, GigaVUE-TA25E, and GigaVUE-TA200.

Topics:

Intrabuilding or Intra-connection for GigaVUE-TA25

WARNING: The intra-building ports:

- RJ45: Management port, Console port
- 1/10/25G SFP28: X1-X48
- 40/100G QSFP28: C1-C8

GigaVUE-TA25 equipment or subassembly are suitable for connection to intrabuilding or unexposed wiring or cabling only. The intra-building port(s) of the equipment or subassembly **MUST NOT** be metallically connected to interfaces that connect to the OSP or its wiring.

These interfaces are designed for use as intra-building interfaces only (Type 2 or Type 4 ports as described in GR-1089-CORE, Issue 6) and require isolation from the exposed OSP cabling. The addition of Primary Protectors is not sufficient protection in order to connect these interfaces metallically to OSP wiring.

The RJ45/ Management port and System boot time takes around 3 minutes for bare system boot up. Due to differences between the complexity of systems deployed into the field, the boot times may be significantly different.

Intrabuilding Ports (RJ45)

WARNING: The intrabuilding ports (RJ45) shall be connected to shielded and grounded cables at both ends.

Class A2 Voltage Accessibility

The GigaVUE-TA200, GigaVUE-TA25, and GigaVUE-TA25E shall be located in a restricted access location where only crafts personnel are allowed access.

Class B Voltage Accessibility

The GigaVUE-TA200 and GigaVUE-TA25 are in a restricted access location where only crafts personnel are allowed access.

Equipment Grounding Systems

The GigaVUE-TA200, and GigaVUE-TA25 are installed and connected to the (CBN).

Communication Equipment Grounding

The GigaVUE-TA200 and GigaVUE-TA25 are suitable for connection to the (Central Office and CPE).

Bonding of Battery Return (BR) Input Terminals

The battery returns of the GigaVUE-TA200 and GigaVUE-TA25 are connected as (DC-I).

Connections

- a. The GigaVUE-TA200 and GigaVUE-TA25 are grounded via a copper ground conductor #6 AWG for CPE installation.
- b. Before connections are made, all bare grounding connection points to the GigaVUE-TA200 or GigaVUE-TA25 are cleaned and coated with an antioxidant solution.
- c. All surfaces on the GigaVUE-TA200 or GigaVUE-TA25 that are unplated are brought to a bright finish and treated with an antioxidant solution before connections are made.
- d. All non-conductive surfaces on the GigaVUE-TA200 or GigaVUE-TA25 must be removed from all threads and connection points to ensure electrical continuity.
- e. Multiple connectors are not secured by the same bolt assemblies.
- f. Unplated connection surfaces that are to be intentionally joined to form a bonding or grounding path shall be brought to a bright finish and then coated with an antioxidant before they are joined (electrical connections).
- g. Listing fastening hardware is compatible with materials being joined and shall preclude loosening, deterioration, and electrochemical corrosion of the hardware and joined materials.
- h. Non-conductive coatings (such as paint, lacquer, and enamel) on the equipment to be bonded or grounded are removed from threads and other contact surfaces to assure electrical continuity.
- i. GigaVUE-TA200 or GigaVUE-TA25 utilizes a Spade width 0.32in/.81cm with a Standard Wire 14-16 (AWG) that utilizes 5in-lbs of torque to secure it to the frame and EUT. Use only the listed two-hole compression-type connectors when connecting flat surfaces (such as bus bars, frames, racks, or cabinets). Torquing and bolts assembly requirements for securing the connector are as specified by the connector supplier.
- j. Anti-rotation devices, such as lock washers, are used on grounding lugs to minimize the possibility of loosening from rotation during installation and maintenance activities.

Input AC/DC Voltage

The GigaVUE-TA200 and GigaVUE-TA25 can operate input 100-240V AC or -48V DC.

Commercial Power Ports

The manufacturer recommends that Surge Protection Device (SPD) is intended to be used with AC-power equipment. The SPD, if used, is installed at the AC power entrance (Refer to definition in the NEC).

Maintenance

CAUTION: Remove all power sources before servicing. (TO COMPLETELY REMOVE POWER FROM THE UNIT, FIRST TURN OFF THE POWER SWITCH AND REMOVE BOTH POWER CABLES).

Maintenance

ATTENTION : Retirez toutes les sources d'alimentation avant de procéder à l'entretien. (POUR RETIRER COMPLÈTEMENT L'ALIMENTATION DE L'APPAREIL, ÉTEIGNEZ D'ABORD L'INTERRUPTEUR D'ALIMENTATION, PUIS RETIREZ LES DEUX CÂBLES ÉLECTRIQUES).

Glossary

D

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)

L

leader

leader in clustering node relationship (formerly master)

M

member node

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

N

no-decrypt list

no need to decrypt (formerly whitelist)

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)