



GigaVUE TA Series Hardware Installation Guide

GigaVUE TA Series

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Gigamon Inc.
3300 Olcott Street
Santa Clara, CA 95054
408.831.4000

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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About the GigaVUE TA Series Family

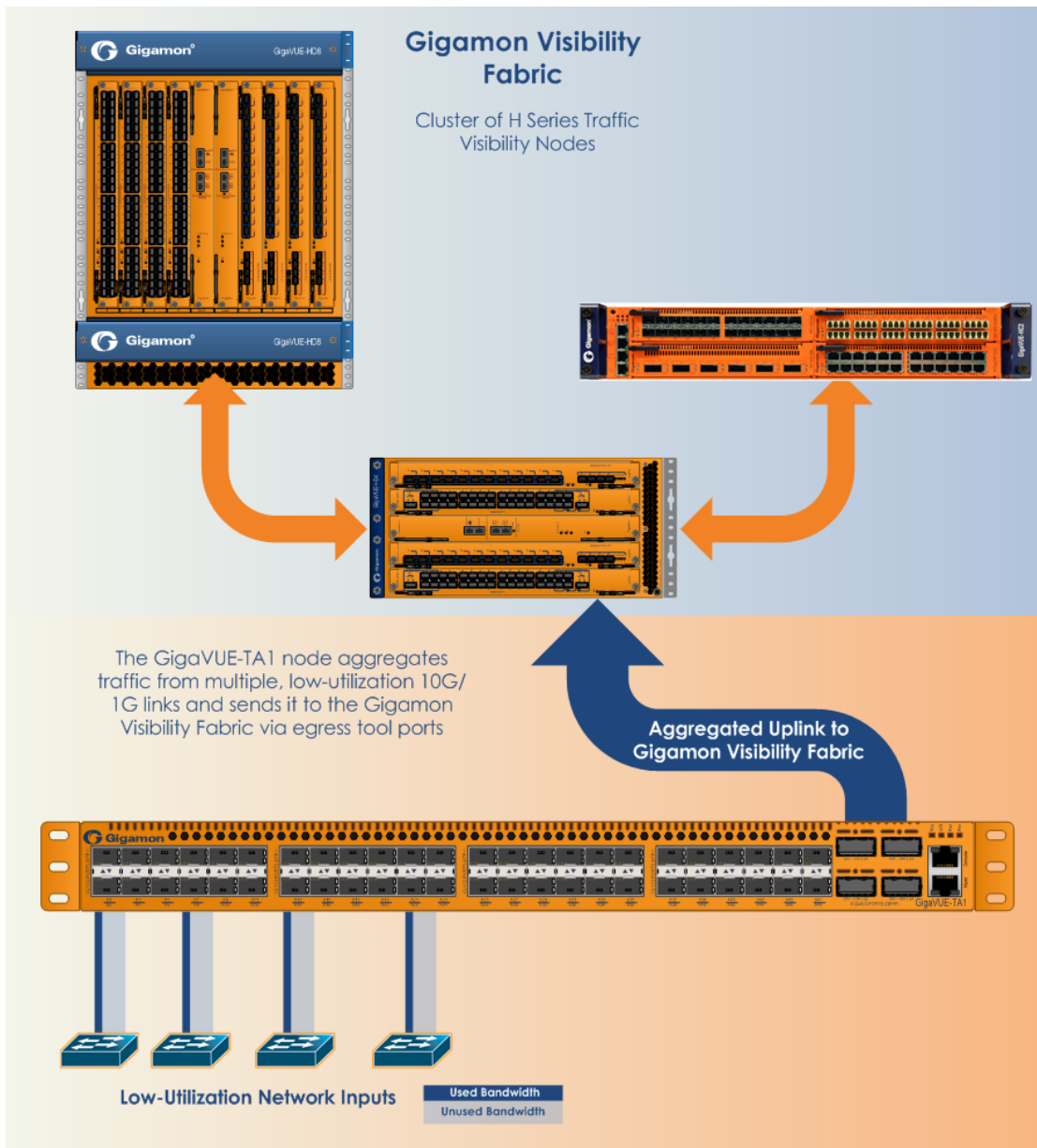
Gigamon’s TA Series and H Series of the Gigamon Visibility and Analytics Fabric nodes deliver unprecedented switching capacity, port density, and from 1Gb up to 100Gb support. The GigaVUE H Series and GigaVUE TA Series include the following models that run GigaVUE-OS:

- GigaVUE-HC1
- GigaVUE-HC2
- GigaVUE-HC3
- GigaVUE TA Series-TA10
- GigaVUE TA Series-TA40
- GigaVUE TA Series-TA100
- GigaVUE TA Series-TA100-CXP
- GigaVUE TA Series-TA200
- GigaVUE-TA25
- Certified Traffic Aggregation White Boxes

GigaVUE TA Series Overview

Gigamon’s TA Series nodes allow you to aggregate the traffic from multiple low-utilization links before sending the traffic to the GigaVUE H Series or G Series nodes that form your Gigamon Visibility Platform.

IMPORTANT: The GigaVUE TA Series support network, tool, clustering, and stack port connections to other GigaVUE TA Series nodes, including both GigaVUE H Series nodes or G Series (for example, a GigaVUE TA Series-2404 node, a GigaVUE TA Series-HD8 node).









Featured topics:

GigaVUE TA Series Nodes

GigaVUE TA Series includes the following models:

- GigaVUE TA Series-TA10
- GigaVUE TA Series-TA40
- GigaVUE TA Series-TA100
- GigaVUE TA Series-TA100-CXP
- GigaVUE TA Series-TA200

- GigaVUE-TA25

<p>GigaVUE TA Series-TA10</p>	<ul style="list-style-type: none"> 1RU Footprint 48 1Gb/10Gb ports 4 40Gb ports Optional patch or breakout panel support Cluster with H Series nodes 	
<p>GigaVUE TA Series-TA40</p>	<ul style="list-style-type: none"> 1RU Footprint 32 40Gb ports Optional patch or breakout panel support Cluster with H Series nodes 	
<p>GigaVUE TA Series-TA100</p>	<ul style="list-style-type: none"> 1RU Footprint 32 100Gb/40Gb ports Optional patch or breakout panel support Cluster with H Series nodes 	
<p>GigaVUE TA Series-TA100-CXP</p>	<ul style="list-style-type: none"> 1RU Footprint 20 100Gb CXP ports, 8 100Gb/40Gb QSFP28 ports 	
<p>GigaVUE TA Series-TA200</p>	<ul style="list-style-type: none"> 2RU Footprint 64 100Gb/40Gb ports Optional patch or breakout panel support Cluster with H Series nodes 	
<p>GigaVUE-TA25</p>	<ul style="list-style-type: none"> 1 RU Footprint 48 25Gb/10Gb/1Gb ports and 8 100Gb/40Gb ports Optional patch or breakout panel support Cluster with H 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 H Series cluster for end-to-end Flow Mapping® and management. The GigaVUE H Series and 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 H 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, and 100Gb.
- Low profile 1RU (2RU for GigaVUE TA Series-TA200) 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 TA Series-TA200 and GigaVUE-TA25.
- 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.

NOTE: Clustering is not supported on the GigaVUE TA Series-TA100-CXP.

Standard H Series Features

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

Benefit	Descriptions
Remote Management	Configure the GigaVUE TA Series Traffic Aggregator's operations from a command-line interface: <ul style="list-style-type: none"> ● Local access over the serial console port. ● Remote network access using SSH2 over the 10/100/1000 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 Visibility Platform.
CLI Management	The GigaVUE TA Series nodes feature a common CLI with other GigaVUE H 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	<p>The GigaVUE TA Series-TA10 can have either twenty-four (24) or forty-eight (48) 1Gb/10Gb ports enabled. The 24-port GigaVUE TA Series-TA10 is called the GigaVUE TA Series-TA10A. A license is available to expand the GigaVUE TA Series-TA10A to include all 48 1Gb/10Gb ports as well as the four (4) 40Gb ports.</p> <p>The GigaVUE TA Series-TA100 can have either sixteen (16), twenty-four (24), or thirty-two (32) 100Gb ports enabled. Licenses are available for the additional two sets of 8 ports.</p> <p>The GigaVUE TA Series-TA200 can have either thirty-two (32) or sixty-four (64) 100Gb ports enabled. A license is available for the additional 32 ports.</p> <p>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 Visibility Platform.</p> <p>The GigaVUE-TA25 has forty-eight (48) 25Gb/10Gb/1Gb ports and eight (8) 100Gb/40Gb ports enabled.</p> <p>A 24-port GigaVUE-TA25 called the GigaVUE-TA25A is also available. License is required to upgrade the GigaVUE-TA25A to include all 48 25Gb/10Gb/1Gb ports as well as the eight (8) 100Gb/40Gb ports .</p>
Clustering	The GigaVUE-TA10, GigaVUE-TA40, GigaVUE-TA100, GigaVUE-TA200 nodes and GigaVUE-TA25 can cluster with other GigaVUE H 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 H Series.

GigaVUE TA Series-TA10 Chassis

This section describes the physical layout of the GigaVUE TA Series-TA10 chassis, including a description of all ports and connectors. The GigaVUE TA Series-TA10 chassis consists of a 1RU, rack-mountable, 19"-wide chassis with management, network, and tool ports at the front and power connections at the rear. [Figure 1](#) [The GigaVUE TA Series-TA10 Chassis](#) shows the ports at the front of the GigaVUE TA Series-TA10 chassis. Refer to [Table 1: GigaVUE TA Series-TA10 Ports](#) for a description of each of the ports.

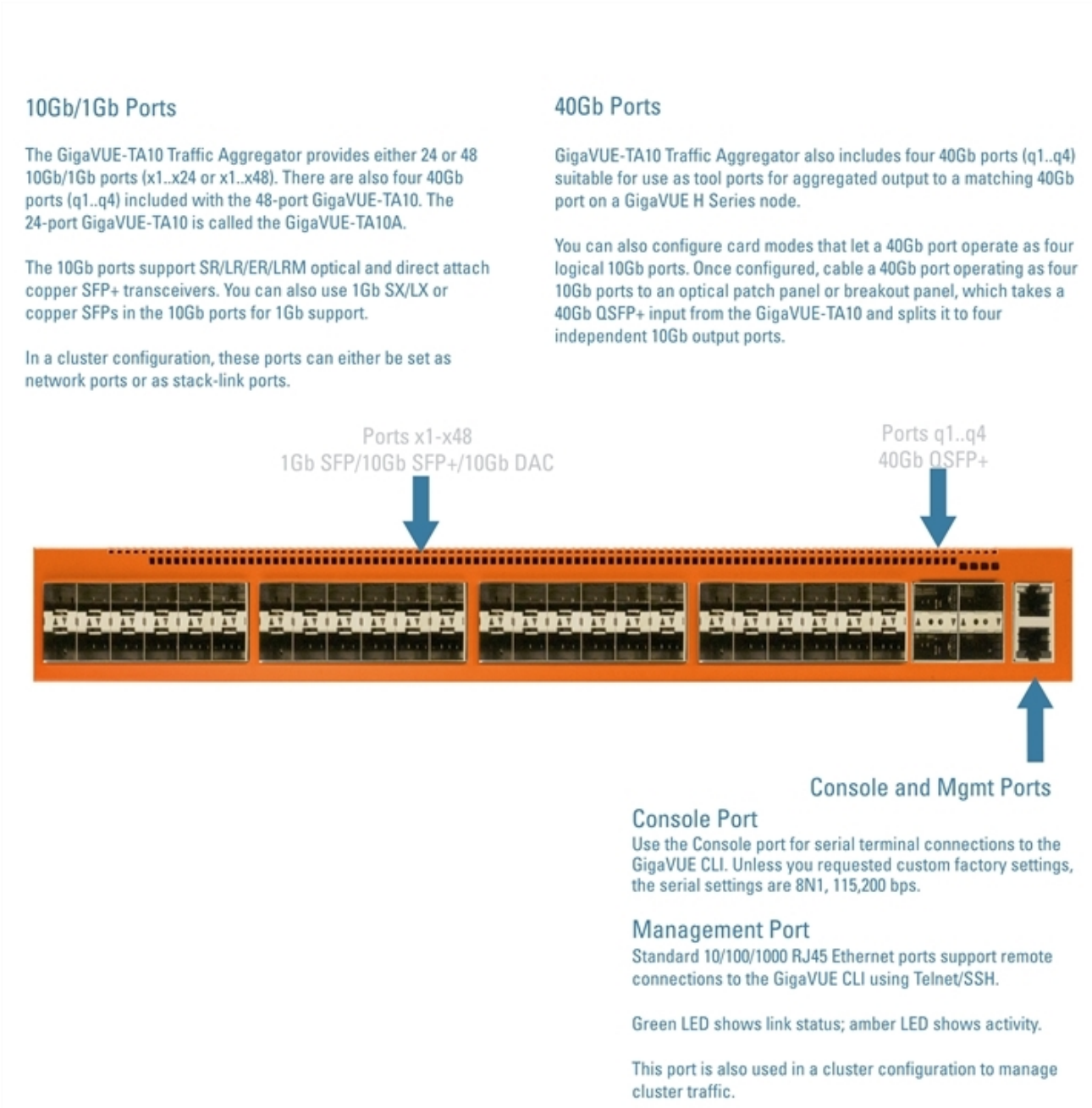


Figure 1 The GigaVUE TA Series-TA10 Chassis

Table 1: GigaVUE TA Series-TA10 Ports

Ports	Description
Mgmt	Use the Mgmt port for remote configuration of the GigaVUE TA Series-TA10 Traffic Aggregator over a 10/100/1000 Ethernet network. Refer to Connecting Serial Console and Mgmt Ports on page 57 for information on establishing a SSH configuration session with the GigaVUE TA Series-TA10 Traffic Aggregator.
Console	Use the Console port for local configuration of the GigaVUE TA Series-TA10 Traffic Aggregator over a serial connection. Refer to Access the Command-Line Interface over the console Port on page 58 for information on establishing a serial configuration session with the GigaVUE TA Series-TA10 Traffic Aggregator in a terminal window.
Ports x1..x24 or Ports x1..x48	<p>The GigaVUE TA Series-TA10 provides either 24 or 48 10Gb/1Gb ports, depending on the version. Each of the 10Gb/1Gb ports can be used as either a network (ingress) or tool (egress) port.</p> <p>For details about the supported transceivers and cable type, refer to the “GigaVUE-OS Compatibility and Interoperability Matrix”.</p> <p>Refer to Port Licensing on page 63 for license information to expand the 24-port GigaVUE TA Series-TA10A to 48 ports, including the four 40Gb ports.</p>
Ports q1..q4 (or as x49..x64)	<p>GigaVUE TA Series-TA10 also includes four 40Gb ports (q1..q4). The 40Gb ports can be used as a 40Gb ingress port, or, as a high-speed tool port for aggregated output to a matching 40Gb port on a GigaVUE H Series node.</p> <p>In addition, you can also configure card modes that let either two (q1..q2) or all four (q1..q4) of the 40Gb ports operate as four logical 10Gb ports (x49..x64). This is useful when deploying the GigaVUE TA Series-TA10 in an environment that does not yet include 40Gb interfaces. Refer to Configuring the Card Mode on GigaVUE-TA10.</p> <p>Once a 40Gb port has been configured to operate as four 10Gb ports, cable it to an optical patch panel or breakout panel, which takes a 40Gb QSFP+ input from the GigaVUE TA Series-TA10 and splits it to four independent 10Gb output ports. Refer to Breakout Panels.</p> <p>The q1..q4 ports accept 40Gb QSFP+ connections using active-fiber QSFP+ SR or PLR4 transceivers.</p> <p>The q1..q4 ports accept 40Gb BiDi transceivers (RX-only or full duplex). RX-only BiDi only supports RX on network ports. Full Duplex (RX/TX) supports network and tool ports.</p> <p>Refer to Port Licensing on page 63 for license information to expand the 24-port GigaVUE TA Series-TA10A to 48 ports, including the four 40Gb ports.</p>
Transceivers	For details about the supported transceivers and cable type, refer to the “ GigaVUE-OS Compatibility and Interoperability Matrix ”.

Air Flow Direction

The air flow direction is from the front of the GigaVUE TA Series 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 TA Series-TA10 Models

Gigamon provides both AC and DC-powered versions of the GigaVUE TA Series-TA10 Traffic Aggregator. Refer to [Connecting -48V DC Power Supplies](#) for information on connecting DC power supplies.

Displaying Power and Voltage Information

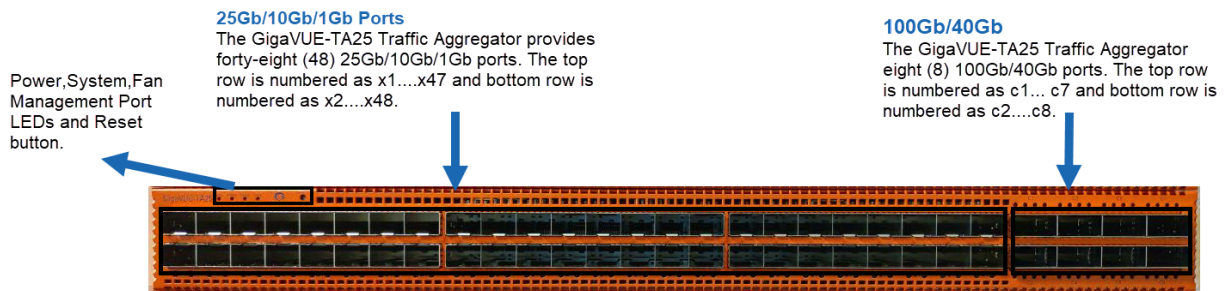
The output of the following show commands display power information on a GigaVUE TA Series-TA10 node:

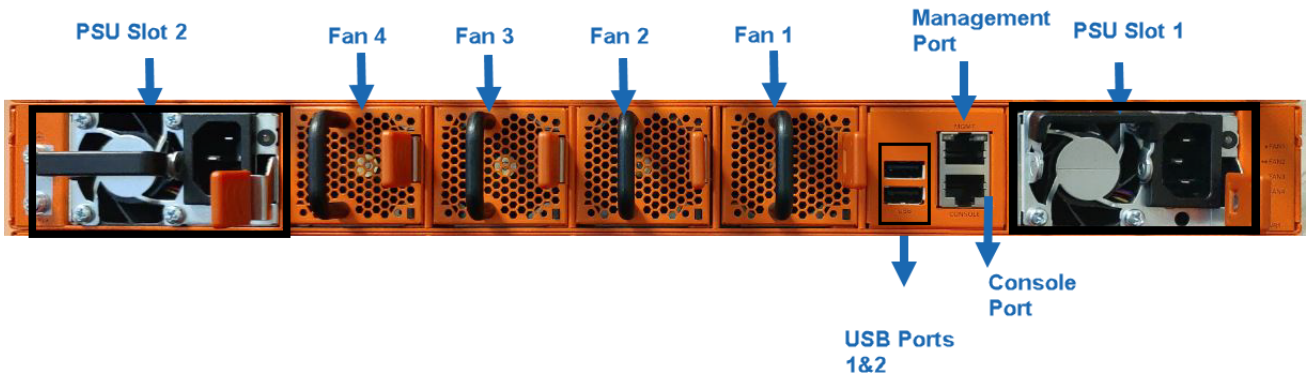
- **show chassis**
- **show environment type psu**
- **show environment type psu psu-detail [all | psu-id]**

NOTE: To increase the i2c stability in a GigaVUE TA Series-TA10 node, the frequency of updating the power supply module information is reduced. As a result, GigaVUE TA Series-TA10 PSU information displayed in the CLI output is not real time.

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.
USB	The USB port provides additional mechanism to upgrade software image on the GigaVUE-TA25.
Ports x1...x48	The GigaVUE-TA25 provides 48 25Gb/10Gb/1Gb ports. For details about the supported transceivers and cable type, refer to the “GigaVUE Interoperability Matrix”. The 24-port GigaVUE-TA25 is called GigaVUE-TA25A. Refer to installation guide for 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 the GigaVUE-OS Compatibility and Interoperability Matrix

Chassis Cooling

The fans on the GigaVUE-TA25 run at 100% of their maximum speed on power up, then drop to approximately 60% during normal operations. The temperatures of four components: transceivers, exhaust, CPU, and switch CPU, are monitored. When a component crosses a pre-defined threshold, the fan speed is adjusted dynamically, in increments of approximately 10%. An SNMP trap is sent when a component reaches the threshold for warning or critical temperature conditions. Refer to [Component Temperature Thresholds and Actions](#) for the temperatures at which the warning and critical traps are sent and any additional action that occurs at a threshold.

Table 2: 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 switch and is operating normally.
- Solid AMBER indicates that the PSU has failed.
- Blinking AMBER indicates that the PSU has been 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 normal

PSU LEDs

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

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

GigaVUE-TA25 Rules and Notes

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

GigaVUE-TA25 Rules and Notes	
Transceivers	All Gigamon labeled 1Gb, 10Gb, 25Gb, 40Gb and 100Gb optics are supported. For details about the supported transceiver, cable type, and connectivity specifications, refer to "GigaVUE-OS Compatibility and Interoperability Matrix".
Network, Tool, Hybrid, or Stack Port	The GigaVUE-TA25 ports can be used as network, tool, hybrid, circuit or stack-link ports. The 4x10Gb and 4x25Gb ports also support all port types. NOTE: On GigaVUE-TA25 all port types are supported with break-out subports. Only C1, C5 ports support 4x10G, 4x25G break-out modes. NOTE: For 1Gb fiber ports, auto-negotiation is not supported on GigaVUE-TA25. 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 "Maximum Map Rules" table in the GigaVUE Fabric Management Guide.
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.

AMI_BIOS_Images

The GigaVUE-TA25 has an AMI Basic Input/Output System (BIOS). The BIOS image is packaged with the software image. The BIOS contents are stored in flash memory, allowing the BIOS to be upgraded. There are two flash components, a primary and a secondary.

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

```
(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 there is a component failure in the primary flash, the GigaVUE-TA25 boots from a backup golden BIOS image in the secondary flash. An SNMP trap can be configured to be sent when the system has booted from the secondary flash. The trap may indicate that the primary flash component needs to be serviced. The trap is as follows:

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:

- There is a risk of fire if the battery is replaced with an incorrect type.
- Use only CR-2032L type Lithium metal coin cell battery and replace with the same.

GigaVUE TA Series-TA40 Chassis

This section describes the physical layout of the GigaVUE TA Series-TA40 chassis, including a description of all ports and connectors. The GigaVUE TA Series-TA40 chassis consists of a 1RU, rack-mountable, 19"-wide chassis with management, network, and tool ports at the front and power connections at the rear. [Figure 2The GigaVUE TA Series-TA40 Chassis](#) shows the ports at the front of the GigaVUE TA Series-TA40 chassis. Refer to [Table 3: GigaVUE TA Series-TA40 Ports](#) for a description of each of the ports.

40Gb Ports

GigaVUE-TA40 Traffic Aggregator includes 32 40Gb ports (q1..q32) suitable for use as tool ports for aggregated output to a matching 40Gb port on a GigaVUE H Series node.

You can also configure card modes that let a 40Gb port operate as four logical 10Gb ports. Once configured, cable a 40Gb port operating as four 10Gb ports to an optical patch panel or breakout panel, which takes a 40Gb QSFP+ input from the GigaVUE-TA40 and splits it to four independent 10Gb output ports.



Console and Mgmt Ports

Console Port

Use the console port for serial terminal connections to the GigaVUE CLI. Unless you requested custom factory settings, the serial settings are 8N1, 115,200 bps.

Management Port

Standard 10/100/1000 RJ45 Ethernet ports support remote connections to the GigaVUE CLI using Telnet/SSH.

Green LED shows link status; amber LED shows activity.

This port is also used in a cluster configuration to manage cluster traffic.

Figure 2 The GigaVUE TA Series-TA40 Chassis

Table 3: GigaVUE TA Series-TA40 Ports

Port	Description
Mgmt	Use the Mgmt port for remote configuration of the GigaVUE TA Series-TA40 Traffic Aggregator over a 10/100/1000 Ethernet network.
Console	Use the console port for local configuration of the GigaVUE TA Series-TA40 Traffic Aggregator over a serial connection.
Ports q1..q32	GigaVUE TA Series-TA40 includes 32 40Gb ports (q1..q32). The 40Gb ports can be used as a 40Gb ingress port, or, as a high-speed tool port for aggregated output to a matching 40Gb port on a GigaVUE TA Series H Series node.

Port	Description
	<p>From software version 5.5, GigaVUE TA Series-TA40 supports 4x10G breakout at port level. Port breakout mode in GigaVUE TA Series-TA40 is configured as follows:</p> <ul style="list-style-type: none"> 24 out of the 32 ports provide 4x10Gb breakout support. The first 12 ports and the last 12 ports provide support for breakout functionality (with 96 sub-ports operating as 10Gb ports:) <ul style="list-style-type: none"> Ports q1 to q12 and q21 to q32 support breakout functionality Ports q13 to q20 do not support breakout functionality After breakout, sub-ports (breakout ports) are named as q1x1...q1x4, q2x1...q2x4 (similar to other hardware platforms) to support the breakout functionality.
Transceivers	For details about the supported transceivers and cable type, refer to the “ <i>GigaVUE-OS Compatibility and Interoperability Matrix</i> ”.

Air Flow Direction

The air flow direction is from the front of the GigaVUE TA Series-TA40 chassis to the rear. The rear-mounted fans pull air from the front to the back of the chassis. Install the chassis so the intake air at the front of the chassis is cold.

AC and DC-Powered GigaVUE TA Series-TA40 Models

Gigamon provides both AC and DC-powered versions of the GigaVUE TA Series-TA40. Refer to [Connecting -48V DC Power Supplies](#).

GigaVUE TA Series-TA100 Chassis

This section describes the physical layout of the GigaVUE TA Series-TA100 chassis, including a description of all ports and connectors. The GigaVUE TA Series-TA100 chassis consists of a 1RU, rack-mountable, 19"-wide chassis with management, network, and tool ports at the front and power connections and fans at the rear. [Figure 3The GigaVUE TA Series-TA100 Chassis Front View](#) shows the ports at the front of the GigaVUE TA Series-TA100 chassis. Refer to [Table 4: GigaVUE TA Series-TA100 Ports](#) for a description of each of the ports. [Figure 4The GigaVUE TA Series-TA100 Chassis Rear View](#) shows the fan modules and power supply units at the rear of the GigaVUE TA Series-TA100 chassis. Refer to [Chassis Cooling](#) for information on fans and temperature monitoring.

The GigaVUE TA Series-TA100 provides thirty-two ports, supporting high-density aggregation. Depending on the transceiver, QSFP+ or QSFP28, the ports run at speeds of either 40Gb or 100Gb. With QSFP+ transceivers, a 40Gb port can be broken out into four 10Gb ports, called **4x10G** mode.

The 100Gb/40Gb ports on GigaVUE TA Series-TA100 can be used as network, tool, hybrid, or stack-link ports.

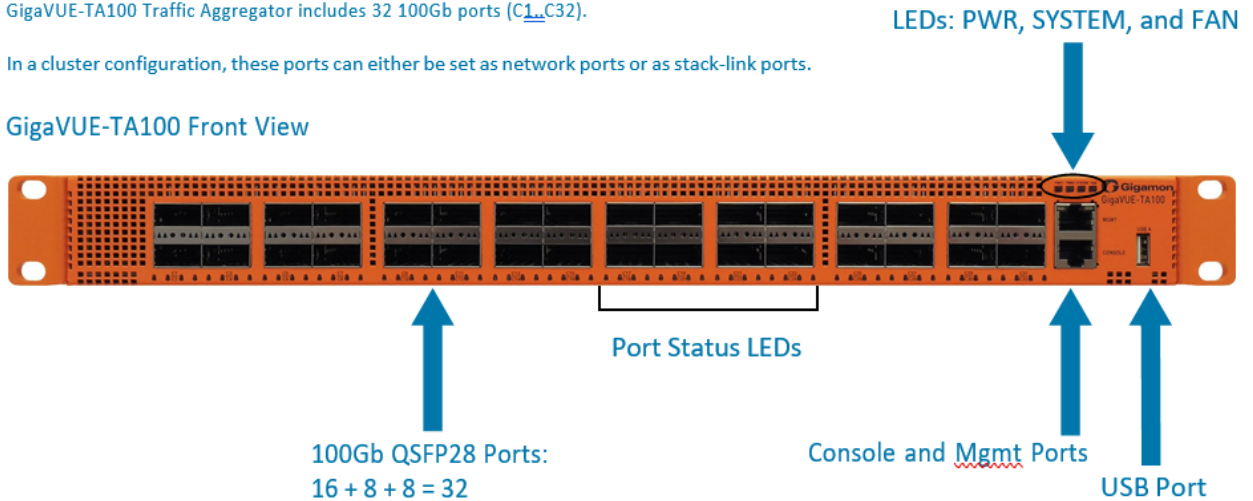
The GigaVUE TA Series-TA100 node in standalone mode must be running software version 4.6.01 or higher. The GigaVUE TA Series-TA100 node in a cluster environment must be running software version 4.8 or higher.

100Gb Ports-

GigaVUE-TA100 Traffic Aggregator includes 32 100Gb ports (C1-C32).

In a cluster configuration, these ports can either be set as network ports or as stack-link ports.

GigaVUE-TA100 Front View



100Gb/40Gb Ports

The 100Gb ports can operate at 40Gb with QSFP+ transceivers.

You can configure a port mode that let a QSFP+ transceiver (40Gb port) operate as four logical 10Gb ports. Once configured, cable a 40Gb port operating as four 10Gb ports to an optical patch panel or breakout panel, which takes a 40Gb QSFP+ input from the GigaVUE-TA100 and splits it to four independent 10Gb output ports.

Console Port

Use the console port for serial terminal connections to the GigaVUE CLI. Unless you requested custom factory settings, the serial settings are 8N1, 115,200 bps.

Management Port

Standard 10/100/1000 RJ45 Ethernet ports support remote connections to the GigaVUE CLI using Telnet/SSH. Green LED shows link status; amber LED shows activity.

This port is also used in a cluster configuration to manage cluster traffic.

Figure 3 The GigaVUE TA Series-TA100 Chassis Front View

Table 4: GigaVUE TA Series-TA100 Ports

Port	Description
Mgmt	Use the Mgmt port for remote configuration of the GigaVUE TA Series-TA100 Traffic Aggregator over a 10/100/1000 Ethernet network.
Console	Use the console port for local configuration of the GigaVUE TA Series-TA100 Traffic Aggregator over a serial connection.

Port	Description
USB	Use the USB port to upgrade software on the GigaVUE TA Series-TA100 using a software image on an external USB drive. Refer to Software Upgrade using USB Drive .
Ports c1..c32 or c1x1..c1x4,c2x1..c2x4,c3x1..c3x4, ...	<p>GigaVUE TA Series-TA100 includes 32 100Gb ports (c1..c32). These ports also support 40Gb speeds.</p> <p>Any of the 100Gb ports on the GigaVUE TA Series-TA100 can operate at 40Gb with a QSFP+ transceiver. With a QSFP+ transceiver, a port can be broken out into 4 10Gb ports, called subports. The subports will all have the same speed (10Gb). Subports will have x1 to x4 appended to their port ID, for example, 1/1/c2x1. For details, refer to Configure the Port Mode.</p> <p>Once a 40Gb port has been configured to operate as four 10Gb ports, cable it to an optical patch panel or breakout panel, such as PNL-M341, which takes a 40Gb QSFP+ input from the GigaVUE TA Series-TA100 and splits it to four independent 10Gb output ports. Refer to Breakout Panels.</p> <p>The ports accept 40Gb QSFP+ connections using QSFP+ SR or PLR4 transceivers.</p> <p>The ports accept 40Gb BiDi transceivers (RX-only or full duplex). RX-only BiDi only supports RX on network ports. Full Duplex (RX/TX) supports network and tool ports.</p>
Transceivers	For details about the supported transceivers and cable type, refer to the “ GigaVUE-OS Compatibility and Interoperability Matrix ”.

GigaVUE-TA100 Rear View

Fan Modules and Power Supplies

GigaVUE-TA100 has three (3) fan modules and two (2) power supply units (PSU). Each fan module contains four fans per module.

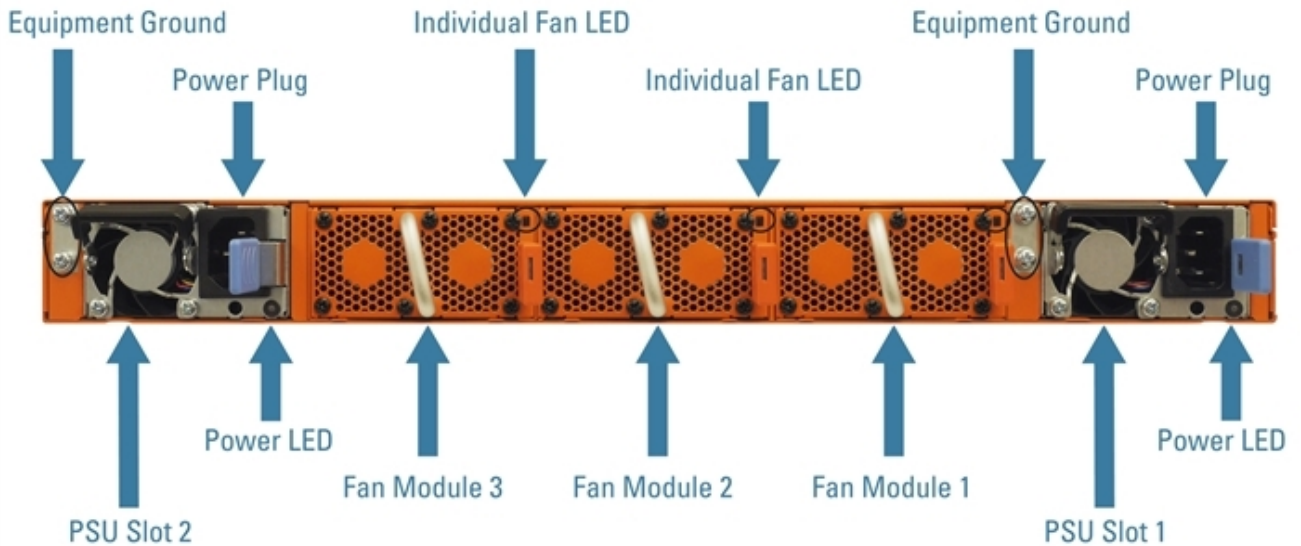


Figure 4 The GigaVUE TA Series-TA100 Chassis Rear View

Chassis Cooling

The fans on the GigaVUE TA Series-TA100 run at 100% of their maximum speed on power up, then drop to approximately 60% during normal operations. The temperatures of four components: transceivers, exhaust, CPU, and switch CPU, are monitored. When a component crosses a pre-defined threshold, the fan speed is adjusted dynamically, in increments of approximately 10%.

An SNMP trap is sent when a component reaches the threshold for warning, alert, or critical temperature conditions. Refer to [Table 5: Component Temperature Thresholds and Actions](#) for the temperatures at which the warning, alert, and critical traps are sent and any additional action that occurs at a threshold.

Table 5: Component Temperature Thresholds and Actions

Transceiver Temperature	Exhaust Temperature	CPU Temperature	Switch CPU Temperature
70°C Warning trap sent	85°C Warning trap sent	90°C Warning trap sent	105°C Warning trap sent
80°C Alert trap sent; Transceiver power disabled	90°C Alert trap sent	95°C Alert trap sent	115°C Alert trap sent; Switch CPU put in reset
95°C Critical trap sent	95°C Critical trap sent	100°C Critical trap sent	140°C Critical trap sent

The output of the following CLI command displays the current exhaust, CPU, and switch CPU temperatures, as well as the intake temperature:

```
(config) show environment
...
Card 1 (TA100-C32):
Intake temperature :      40 C
Exhaust temperature :    45 C
CPU temperature :        32 C
Switch_CPU temperature :  54 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
=====
...
SFP type:      qsfp28 sr      qsfp28 sr
...
SFP Power (1-2) (dBm):  -40.00 -40.00  -40.00 -40.00
SFP Power (3-4) (dBm):  -40.00 -40.00  -40.00 -40.00
SFP Power (5-6) (dBm):   -      -      -      -
```

```
SFP Power (7-8) (dBm):      -      -      -      -  
SFP Power (9-10) (dBm):   -      -      -      -  
SFP Temperature (C):      20.94      21.12  
...
```

The output of the following CLI command displays the fan speed in RPM (the normal operational speed is approximately 12000 RPM; the maximum speed is approximately 19000 RPM):

```
(config) show environment  
...  
Fan tray 1 (FAN-TAC00):  
1st fan :                12136 RPM  
2nd fan :                12288 RPM  
3rd fan :                12136 RPM  
4th fan :                11988 RPM  
...
```

Power LEDs

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

- Solid GREEN indicates that the power supply unit (PSU) has power and is operating normally
- Solid AMBER indicates a Power-On Self-Test (POST) is in progress
- Blinking AMBER indicates that the PSU is present but without power.
- Off indicates that the PSU is not inserted in the chassis.

System LED

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

- Off indicates no power
- Blinking GREEN indicates the node is booting or the system is in diagnostic mode
- Solid GREEN indicates normal operation
- Solid RED indicates a critical alarm
- Blinking RED indicates a non-critical alarm

Port Status LEDs

For each port, there are four (4) port status LEDs on the front of the chassis. At 40Gb and 100Gb speeds, only the first 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 there is traffic flowing through the port

The other three LEDs operate when ports are in breakout mode as follows:

- Off indicates the port is in non-breakout mode
- GREEN indicates the link is operationally up
- AMBER indicates the port is administratively disabled

Global Fan LED

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

- GREEN indicates all fans are operating normally
- AMBER indicates one or more fans have failed

Individual Fan LEDs

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

- GREEN indicates the fan is operating normally
- AMBER indicates the fan has failed

Individual Power LEDs

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

- GREEN indicates the PSU is operating normally
- Off indicates the PSU is not operational

GigaVUE TA Series-TA100 Notes and Rules

Keep in mind the following notes and rules when using the GigaVUE TA Series-TA100:

GigaVUE TA Series-TA100 Notes	
Transceivers	For details about the supported transceivers and cable type, refer to the <i>"GigaVUE-OS Compatibility and Interoperability Matrix"</i> .
Network, Tool, Hybrid, or Stack-Link Port	The 100Gb/40Gb ports on GigaVUE TA Series-TA100 can be used as network, tool, hybrid, or stack-link ports. Subports created from 4x10G mode on the GigaVUE TA Series-TA100 can function as network, tool, hybrid, or stack-link ports.

Stack-Links at 10Gb	<p>The 10G stacking to other GigaVUE TA Series nodes is supported when 40Gb ports on GigaVUE TA Series-TA100 are fanned out to 4x10G mode, but only in the following combinations:</p> <ul style="list-style-type: none"> ▪ GigaVUE-HC1 to GigaVUE TA Series-TA100 ▪ GigaVUE-HC2 control card version 1 (CCv1) to GigaVUE TA Series-TA100 ▪ All modules on GigaVUE-HC2 control card version 2 (CCv2), except the PRT-HC0-C02 module, to GigaVUE TA Series-TA100 ▪ GigaVUE TA Series-TA10 to GigaVUE TA Series-TA100 ▪ PRT-H00-Q02X32 on GigaVUE TA Series HD Series to GigaVUE TA Series-TA100 ▪ GigaVUE TA Series-TA100 to GigaVUE TA Series-TA100
Stack-Links at 40Gb	<p>The GigaVUE TA Series-TA100 can connect to all GigaVUE TA Series nodes that support 40Gb through a 40Gb stack-link, using SR4 and LR4 optics, with the following exception:</p> <ul style="list-style-type: none"> ▪ PRT-HC0-C02 on GigaVUE-HC2
Stack-Links at 100Gb	<p>The GigaVUE TA Series-TA100 can connect to the following nodes, modules, and line cards through a 100Gb stack-link:</p> <ul style="list-style-type: none"> ▪ GigaVUE TA Series-TA100 (SR4, LR4, and CWDM4) ▪ GigaVUE TA Series-TA200 (SR4, LR4, and CWDM4) ▪ PRT-HC3-C08Q08, PRT-HC3-C16, and SMT-HC3-C05 on GigaVUE-HC3 (SR4, LR4, and CWDM4) ▪ PRT-HD0-C06X24 on GigaVUE TA Series HD Series (LR4 and CWDM4 only on C06 ports)
Stack-Links to Other Node Types	<p>To ensure the stack-links become operationally <i>up</i> when the GigaVUE TA Series-TA100 is connected to a node of a different type:</p> <ul style="list-style-type: none"> ▪ Configure specified ports as stack ports. ▪ Configure the stack-link between the stack ports.
Map Rules and Port Filters	<p>The GigaVUE TA Series-TA100 supports 256 map rules per chassis, by default and 20 egress port filters per chassis.</p> <p>For details about the maximum map rules, refer to the "<i>Maximum Map Rules</i>" table in the <i>GigaVUE-FM Users Guide</i>.</p>
Port Licensing	<p>On the GigaVUE TA Series-TA100, only the first 16 out of 32 ports are enabled. Two port licenses are available to enable an additional 8 or 16 ports. Refer to Port Licensing on page 63 for license information to expand from 16 ports to 24 or 32 ports.</p>
Advanced Features License	<p>Connecting a GigaVUE TA Series-TA100 to a cluster requires the Advanced Features License.</p>

Dual BIOS Images

The GigaVUE TA Series-TA100 has a dual Basic Input/Output System (BIOS). The BIOS image is packaged with the software image, starting in software version 4.6.01. The BIOS contents are stored in flash memory, allowing the BIOS to be upgraded. There are two flash components, a primary and a secondary.

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

```
(config) show version
...
1st flash version: coreboot-ta100-1.0.0 Wed Aug 23 16:10:34 CST 2017 **
2nd flash version: coreboot-ta100-1.0.0 Wed Aug 23 16:10:34 CST 2017
...
```

If there is a component failure in the primary flash, the GigaVUE TA Series-TA100 boots from a backup golden BIOS image in the secondary flash. An SNMP trap can be configured to be sent when the system has booted from the secondary flash. The trap may indicate that the primary flash component needs to be serviced. The trap is as follows:

```
2ndflashboot: Secondary flash boot notification
```

If a BIOS upgrade is needed for enhancements in future releases, the BIOS can be manually upgraded from the CLI using the **coreboot install** command.

Software Upgrade using USB Drive

If a GigaVUE TA Series-TA100 does not have network access, there is a USB port on the front of the chassis.

A software image can be downloaded to a USB drive, the drive can be inserted into the USB port on the GigaVUE TA Series-TA100, and the software image can be installed from the drive. Use the format, fat32, for the USB drive.

The following are ways to download a software image to a USB drive:

- Insert the drive into your computer or laptop and drag and drop the software image onto the drive.
- Insert the drive into a GigaVUE TA Series-TA100 with network access and use the **image fetch** CLI command with the **usb** parameter.

Air Flow Direction

The air flow direction is from the front of the GigaVUE TA Series-TA100 chassis to the rear. The rear-mounted fans pull air from the front to the back of the chassis. Install the chassis so the intake air at the front of the chassis is cold.

AC and DC-Powered GigaVUE TA Series-TA100 Models

Gigamon provides both AC and DC-powered versions of the GigaVUE TA Series-TA100. Refer to [Connecting -48V DC Power Supplies on page 54](#).

Battery Caution

A disposable, non-rechargeable, Real Time Clock (RTC) Lithium metal coin cell battery is in the GigaVUE TA Series-TA100. Note the following:

- There is a risk of fire if the battery is replaced with an incorrect type.
- Use only CR-2032L type Lithium metal coin cell battery and replace with the same.

GigaVUE TA Series-TA100-CXP Chassis

This section describes the physical layout of the GigaVUE TA Series-TA100-CXP chassis, including a description of all ports and connectors. The GigaVUE TA Series-TA100-CXP chassis consists of a 1RU, rack-mountable, 19"-wide chassis with management, network, and tool ports at the front and power connections and fans at the rear. [Figure 5The GigaVUE TA Series-TA100-CXP Chassis Front View](#) shows the ports at the front of the GigaVUE TA Series-TA100-CXP chassis. Refer to [Table 6: GigaVUE TA Series-TA100-CXP Ports](#) for a description of each of the ports. [Figure 6The GigaVUE TA Series-TA100-CXP Chassis Rear View](#) shows the fan modules and power supply units at the rear of the GigaVUE TA Series-TA100-CXP chassis.

The GigaVUE TA Series-TA100-CXP provides twenty-eight 100Gb ports, supporting high-density aggregation. Twenty (20) ports are 100Gb CXP ports. Eight (8) ports are 100Gb QSFP28 ports. Depending on the transceiver inserted in the eight ports, QSFP+ or QSFP28, the eight ports run at speeds of either 40Gb or 100Gb. With QSFP+ transceivers, a 40Gb port can be broken out into four 10Gb ports, called **4x10G** mode.

The QSFP28 and CXP ports on GigaVUE TA Series-TA100-CXP can be used as network, tool, or hybrid ports. They cannot be used as stack ports. Subports created from **4x10G** mode can function as network, tool, or hybrid ports. They cannot be used as stack ports.

The GigaVUE TA Series-TA100-CXP node must be running software version 5.0 or higher.

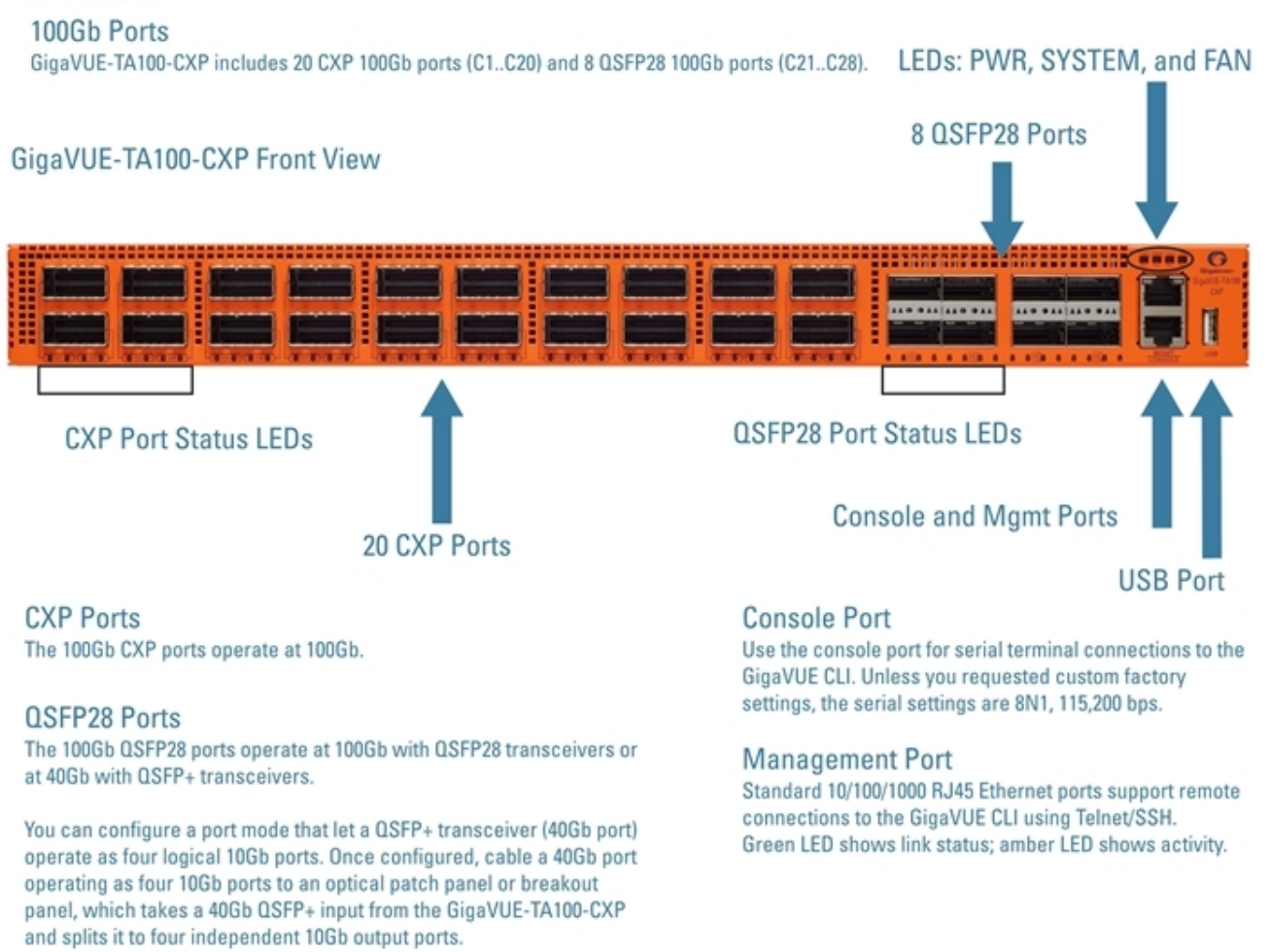


Figure 5 The GigaVUE TA Series-TA100-CXP Chassis Front View

Table 6: GigaVUE TA Series-TA100-CXP Ports

Port	Description
Mgmt	Use the Mgmt port for remote configuration of the GigaVUE TA Series-TA100-CXP over a 10/100/1000 Ethernet network.
Console	Use the console port for local configuration of the GigaVUE TA Series-TA100-CXP over a serial connection.

Port	Description
USB	Use the USB port to upgrade software on the GigaVUE TA Series-TA100-CXP using a software image on an external USB drive. Refer to Software Upgrade using USB Drive .
Ports c1..c20, c21..c28 or c21x1..c21x4, c22x1..c22x4, c23x1..c23x4, ...	<p>GigaVUE TA Series-TA100-CXP includes twenty-eight (28) 100Gb ports (c1..c28). Twenty (20) ports (c1..c20) are 100Gb CXP ports. Eight (8) ports (c21..c28) are 100Gb QSFP28 ports. Depending on the transceiver inserted in the eight ports, either QSFP+ or QSFP28, the ports run at speeds of either 40Gb or 100Gb.</p> <p>With a QSFP+ transceiver, the QSFP28 ports can be broken out into four 10Gb ports, called subports. The subports will all have the same speed (10Gb). Subports will have x1 to x4 appended to their port ID, for example, 1/1/c21x1. For details, refer to Configure the Port Mode.</p> <p>Once a 40Gb port has been configured to operate as four 10Gb ports, cable it to an optical patch panel or breakout panel, such as PNL-M341, which takes a 40Gb QSFP+ input from the GigaVUE TA Series-TA100-CXP and splits it to four independent 10Gb output ports. Refer to Breakout Panels.</p> <p>In software version 5.3, port breakout is only supported on 40Gb QSFP+ 40GBASE-SR4.</p>
Transceivers	For details about the supported transceiver, cable type, and connectivity specifications, refer to “ GigaVUE-OS Compatibility and Interoperability Matrix ”.

GigaVUE-TA100-CXP Rear View

Fan Modules and Power Supplies

GigaVUE-TA100-CXP has three (3) fan modules and two (2) power supply units (PSU). Each fan module contains four fans per module.

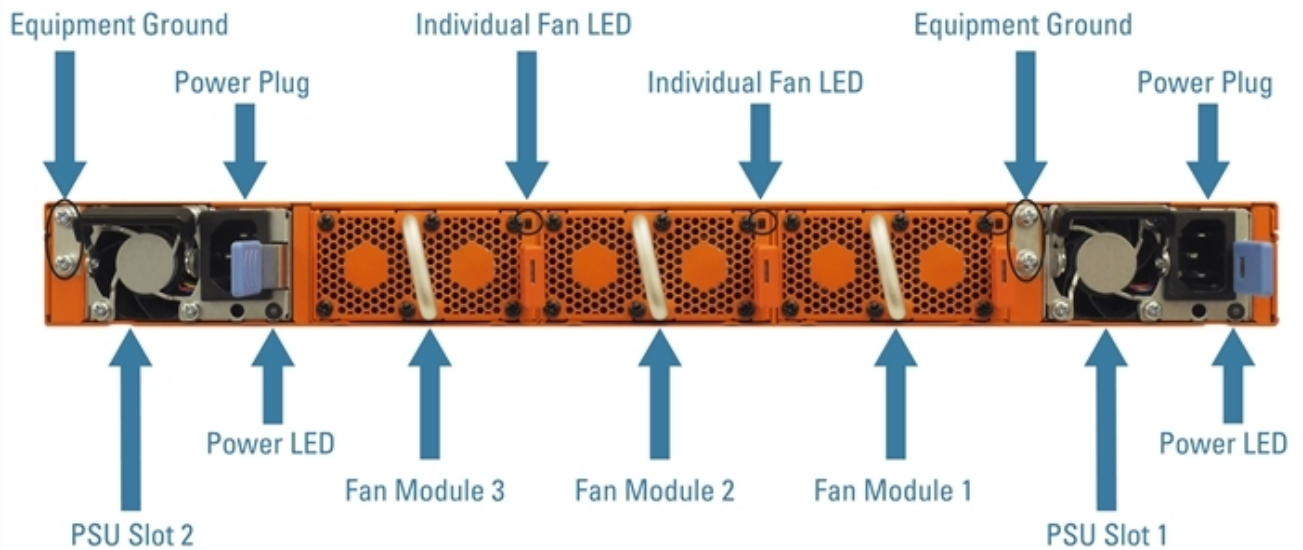


Figure 6 The GigaVUE TA Series-TA100-CXP Chassis Rear View

Chassis Cooling

The fans on the GigaVUE TA Series-TA100-CXP run at 100% of their maximum speed on power up, then drop to approximately 60% during normal operations. The temperatures of four components: transceivers, exhaust, CPU, and switch CPU, are monitored. When a component crosses a pre-defined threshold, the fan speed is adjusted dynamically, in increments of approximately 10%.

An SNMP trap is sent when a component reaches the threshold for warning, alert, or critical temperature conditions. Refer to [Table 7: Component Temperature Thresholds and Actions](#) for the temperatures at which the warning, alert, and critical traps are sent and any additional action that occurs at a threshold.

Table 7: Component Temperature Thresholds and Actions

Transceiver Temperature	Exhaust Temperature	CPU Temperature	Switch CPU Temperature
70°C Warning trap sent	85°C Warning trap sent	90°C Warning trap sent	105°C Warning trap sent
80°C Alert trap sent; Transceiver power disabled	90°C Alert trap sent	95°C Alert trap sent	115°C Alert trap sent; Switch CPU put in reset
95°C Critical trap sent	95°C Critical trap sent	100°C Critical trap sent	140°C Critical trap sent

The output of the following CLI command displays the current exhaust, CPU, and switch CPU temperatures, as well as the intake temperature:

```
(config) show environment
...
Card 1 (TACX-C28):
Intake temperature :      31 C
Exhaust temperature :    39 C
CPU temperature :        30 C
Switch_CPU temperature : 52 C
```

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

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

```
...
SFP type:                cxp sr
  SFP vendor name:       GIGAMON
  SFP vendor PN:        FTLD10CE3C-GM
  SFP vendor SN:        XWG0J50
SFP Power (1-2) (dBm):   -40.00 -40.00
SFP Power (3-4) (dBm):   -40.00 -40.00
SFP Power (5-6) (dBm):   -40.00 -40.00
```

```
SFP Power (7-8) (dBm):    -40.00 -40.00
SFP Power (9-10) (dBm):  -40.00 -40.00
SFP Temperature (C):      23.88
```

The output of the following CLI command displays the fan speed in RPM (the normal operational speed is approximately 12000 RPM; the maximum speed is approximately 19000 RPM):

```
(config) show environment
...
Fan tray 1 (FAN-TAC00):
1st fan :                12136 RPM
2nd fan :                12288 RPM
3rd fan :                12136 RPM
4th fan :                11988 RPM
...
```

Power LEDs

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

- Solid GREEN indicates that the power supply unit (PSU) has power and is operating normally.
- Solid AMBER indicates a Power-On Self-Test (POST) is in progress.
- Blinking AMBER indicates that the PSU is present but without power.
- Off indicates that the PSU is not inserted in the chassis.

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 or the system is in diagnostic mode
- Solid RED indicates a critical alarm
- Blinking RED indicates a non-critical alarm
- Off indicates no power

QSFP28 Port Status LEDs

For each QSFP28 port, there are four (4) port status LEDs on the front of the chassis. At 40Gb and 100Gb speeds, only the first 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 there is traffic flowing through the port

The other three LEDs operate when ports are in breakout mode as follows:

- Off indicates the port is in non-breakout mode
- GREEN indicates the link is operationally up
- AMBER indicates the port is administratively disabled

CXP Port Status LEDs

Each CXP port on the front of the chassis is as follows:

- AMBER indicates the port is administratively disabled
- GREEN indicates the link is operationally up

Global Fan LED

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

- Solid GREEN indicates all fans are operating normally
- Solid AMBER indicates one or more fans have failed

Individual Fan LEDs

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

- Solid GREEN indicates the fan is operating normally
- Solid AMBER indicates the fan has failed

Individual Power LEDs

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

- GREEN indicates the PSU is operating normally
- Off indicates the PSU is not operational

GigaVUE TA Series-TA100-CXP Notes and Rules

Keep in mind the following notes and rules when using the GigaVUE TA Series-TA100-CXP:

GigaVUE TA Series-TA100-CXP Notes

Transceivers	For details about the supported transceiver, cable type, and connectivity specifications, refer to “GigaVUE-OS Compatibility and Interoperability Matrix”.
Network, Tool, or Hybrid Ports	The QSFP28 and CXP ports on GigaVUE TA Series-TA100-CXP can be used as network, tool, or hybrid ports.
Map Rules and Port Filters	The GigaVUE TA Series-TA100-CXP supports 256 map rules per chassis and 20 egress port filters per chassis.
Port Licensing	There is no port licensing on GigaVUE TA Series-TA100-CXP. All 28 ports are enabled.
Clustering	The GigaVUE TA Series-TA100-CXP does not support clustering.

Dual BIOS Images

The GigaVUE TA Series-TA100-CXP has a dual Basic Input/Output System (BIOS). The BIOS image is packaged with the software image, starting in software version 4.8.01. The BIOS contents are stored in flash memory, allowing the BIOS to be upgraded. There are two flash components, a primary and a secondary.

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

```
(config) show version
...
1st flash version: coreboot-ta100cxp-1.0.0_20170110 Tues Jan 10 08:55:30 UTC 2017 **
2nd flash version: coreboot-ta100cxp-1.0.0_20170110 Tues Jan 10 08:55:30 UTC 2017
...
```

If there is a component failure in the primary flash, the GigaVUE TA Series-TA100-CXP boots from a backup golden BIOS image in the secondary flash. An SNMP trap can be configured to be sent when the system has booted from the secondary flash. The trap may indicate that the primary flash component needs to be serviced. The trap is as follows:

```
2ndflashboot: Secondary flash boot notification
```

If a BIOS upgrade is needed for enhancements in future releases, the BIOS can be manually upgraded from the CLI using the **coreboot install** command.

Software Upgrade using USB Drive

If a GigaVUE TA Series-TA100-CXP does not have network access, there is a USB port on the front of the chassis.

A software image can be downloaded to a USB drive, the drive can be inserted into the USB port on the GigaVUE TA Series-TA100-CXP, and the software image can be installed from the drive. Use the format, fat32, for the USB drive.

The following are ways to download a software image to a USB drive:

- Insert the drive into your computer or laptop and drag and drop the software image onto the drive.
- Insert the drive into a GigaVUE TA Series-TA100-CXP with network access and use the **image fetch** CLI command with the **usb** parameter.

Air Flow Direction

The air flow direction is from the front of the GigaVUE TA Series-TA100-CXP chassis to the rear. The rear-mounted fans pull air from the front to the back of the chassis. Install the chassis so the intake air at the front of the chassis is cold.

AC and DC-Powered GigaVUE TA Series-TA100-CXP Models

Gigamon provides both AC and DC-powered versions of the GigaVUE TA Series-TA100-CXP.

Battery Caution

A disposable, non-rechargeable, Real Time Clock (RTC) Lithium metal coin cell battery is in the GigaVUE TA Series-TA100-CXP. Note the following:

- There is a risk of fire if the battery is replaced with an incorrect type.
- Use only CR-2032L type Lithium metal coin cell battery and replace with the same.

GigaVUE TA Series-TA200 Chassis

This section describes the physical layout of the GigaVUE TA Series-TA200 chassis, including a description of all ports and connectors. The GigaVUE TA Series-TA200 chassis consists of a 2RU, rack-mountable, 19"-wide chassis with management, network, and tool ports at the front and power connections and fans at the rear. [Figure 7 The GigaVUE TA Series-TA200 Chassis Front View](#) shows the ports at the front of the GigaVUE TA Series-TA200 chassis. Refer to [Table 8: GigaVUE TA Series-TA200 Ports](#) for a description of each of the ports. [Figure 8 The GigaVUE TA Series-TA200 Chassis Rear View](#) shows the fan modules and power supply units at the rear of the GigaVUE TA Series-TA200 chassis. Refer to [Chassis Cooling](#) for information on fans and temperature monitoring.

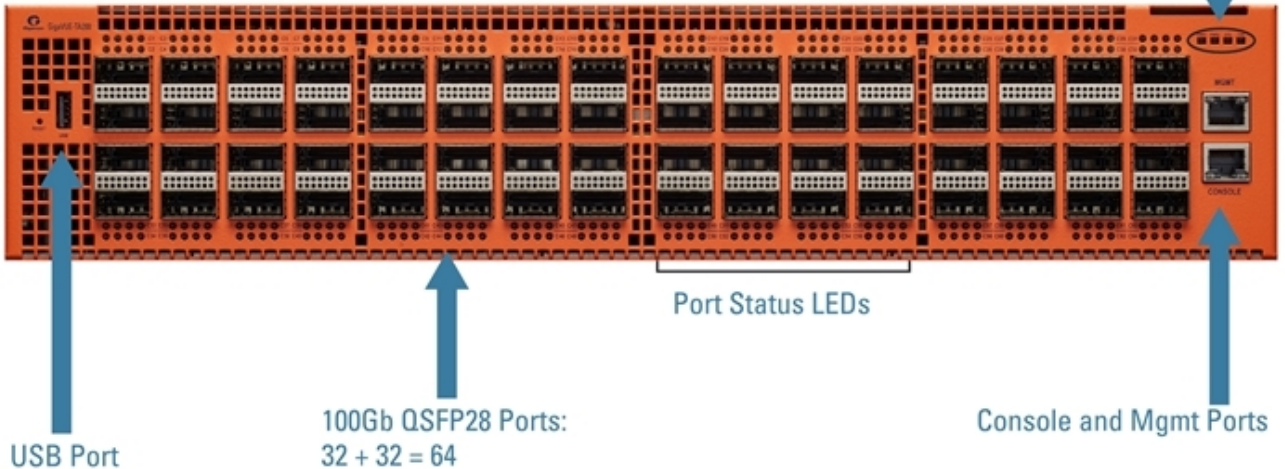
The GigaVUE TA Series-TA200 provides sixty-four ports, supporting high-density aggregation. Depending on the transceiver, QSFP+ or QSFP28, the ports run at speeds of either 40Gb or 100Gb. With QSFP28 SR4 transceivers, a 100Gb port can be broken out into four 25Gb ports, called **4x25G** mode. With 40G SR4, 40Gb ESR4 and PLR4 QSFP+ transceivers (QSF-502, QSF-507, and QSF-506, respectively), a 40Gb port can be broken out into four 10Gb ports, called **4x10G** mode.

100Gb Ports

GigaVUE-TA200 Traffic Aggregator includes 64 100Gb ports (C1..C64). The top two rows are ports C1 to C32. The bottom two rows are ports C33 to C64.

In a cluster configuration, these ports can either be set as network ports or as stack-link ports.

GigaVUE-TA200 Front View



100Gb/40Gb Ports

The GigaVUE-TA200 provides 64 QSFP28 ports, each labeled with a C prefix. The ports are designated as C1 to C64 from left to right when viewed from the front.

The ports are arranged in rows. The upper ports of each slot have odd numbers: C1, C3, .. C31, and C33, C35, .. C63, while the lower ports of each slot have even numbers: C2, C4, .. C32, and C34, C36, .. C64.

The 100Gb ports can operate at 40Gb with QSFP+ transceivers.

Console Port

Use the console port for serial terminal connections to the GigaVUE CLI. Unless you requested custom factory settings, the serial settings are 8N1, 115,200 bps.

Management Port

Standard 10/100/1000 RJ45 Ethernet ports support remote connections to the GigaVUE CLI using Telnet/SSH. Green LED shows link status; amber LED shows activity.

This port is also used in a cluster configuration to manage cluster traffic.

Figure 7 The GigaVUE TA Series-TA200 Chassis Front View

Table 8: GigaVUE TA Series-TA200 Ports

Port	Description
Mgmt	Use the Mgmt port for remote configuration of the GigaVUE TA Series-TA200 Traffic Aggregator over a 10/100/1000 Ethernet network.
Console	Use the console port for local configuration of the GigaVUE TA Series-TA200 Traffic Aggregator over a serial connection.
USB	The USB port is not supported in software version 5.3.
Ports c1..c64 or c1x1..c1x4 tc10x1..c10x4andc23x1..c23x4 tc32x1..c32x4	GigaVUE TA Series-TA200 includes 64 100Gb ports (c1..c64). These ports also support 40Gb speeds. The 40Gb/100Gb ports on the GigaVUE TA Series-TA200 can be broken out into four 10Gb/25Gb ports, called subports. The subports will all have the same speed (10Gb/25Gb). Subports will have x1 to x4 appended to their port ID, for example, 1/1/c2x1. Port breakout is

Port	Description
	<p>supported on the first 32 ports (ports c1 .. c32). On the first and last 10 ports of the top two rows (ports c1 .. c10 and c23 .. c32), there is no impact on the lower ports. When you break out the middle 12 ports, there is an impact on the lower ports. Refer to “Ports c11..c22” below. For details on 4x25G port breakout mode, refer to Configure the Port Mode.</p> <p>Once a 40Gb/100Gb port has been configured to operate as four 10Gb/25Gb ports, cable it to an optical patch panel or breakout panel, such as PNL-M341, which takes input from the GigaVUE TA Series-TA200 and splits it to four independent 10Gb/25Gb output ports. Refer to Breakout Panels.</p>
<p>Ports c11..c22or c11x1..c11x4 toc22x1..c22x4</p>	<p>When you use ports c11 .. c22 for port breakout, there is an impact on the ports in the lower row of the GigaVUE TA Series-TA200. In the following list, ensure that the ports on the right do not have any configurations when you use the port on the left for port breakout:</p> <p>c11 → c33, c34 c12 → c40, c41, c42 c13 → c43, c44, c45 c14 → c35, c36 c15 → c37, c38, c39 c16 → c46, c47, c48 c17 → c49, c50 c18 → c52, c57, c59 c19 → c60, c61, c62 c20 → c51, c53 c21 → c54, c55, c56 c22 → c58, c63, c64</p> <p>For example, if you use c11 for port breakout, ports c33 and c34 will be inactive.</p> <p>Ensure that the ports on the right are disabled. You will receive an error message, if you try, for example, to breakout port c11 when c33 or c34 are enabled.</p>
<p>Transceivers</p>	<p>For details about the supported transceiver, cable type, and connectivity specifications, refer to “<i>GigaVUE-OS Compatibility and Interoperability Matrix</i>”.</p>

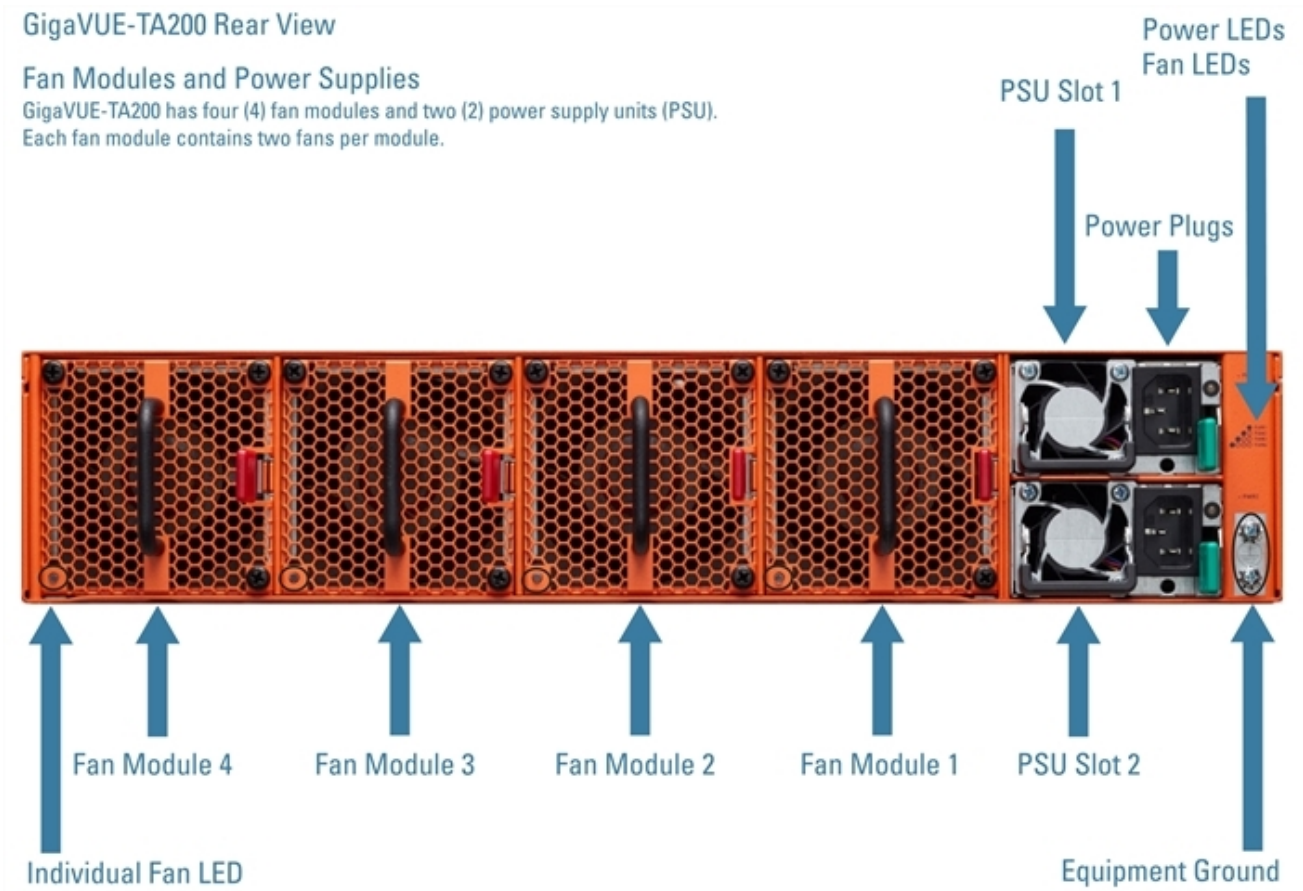


Figure 8 The GigaVUE TA Series-TA200 Chassis Rear View

Chassis Cooling

The fans on the GigaVUE TA Series-TA200 run at 100% of their maximum speed on power up, then drop to approximately 40% during normal operations. The temperatures of four components: transceivers, exhaust, CPU, and switch CPU, are monitored. When a component crosses a pre-defined threshold, the fan speed is adjusted dynamically, in increments of approximately 15%.

An SNMP trap is sent when a component reaches the threshold for warning, alert, or critical temperature conditions. Refer to [Table 9: Component Temperature Thresholds and Actions](#) for the temperatures at which the warning, alert, and critical traps are sent and any additional action that occurs at a threshold.

Table 9: Component Temperature Thresholds and Actions

Transceiver Temperature	Exhaust Temperature	CPU Temperature	Switch CPU Temperature
75°C Warning trap sent	70°C Warning trap sent	95°C Warning trap sent	100°C Warning trap sent
80°C Alert trap sent; Transceiver power disabled	75°C Alert trap sent	100°C Alert trap sent	105°C Alert trap sent; Switch CPU put in reset
85°C Critical trap sent	80°C Critical trap sent	105°C Critical trap sent	110°C Critical trap sent

The output of the following CLI command displays the current exhaust, CPU, and switch CPU temperatures, as well as the intake temperature:

```
(config) show environment
...
Card 1 (TA200-C64):
Intake temperature :      29 C
Exhaust temperature :    28 C
CPU temperature :        36 C
Switch CPU temperature :  54 C
```

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

```
(config) show port params port-list 3/1/c1
          Parameter          3/1/c1
=====
...
SFP type:      qsfp28 sr
...
SFP Power (1-2) (dBm):  -40.00 -40.00
SFP Power (3-4) (dBm):  -40.00 -40.00
SFP Power (5-6) (dBm):   -      -
SFP Power (7-8) (dBm):   -      -
SFP Power (9-10) (dBm):  -      -
SFP Temperature (C):    19.75
...

```

The output of the following CLI command displays the fan speed in RPM (the normal operational speed is approximately 5000 RPM; the maximum speed is approximately 12500 RPM):

```
(config) show environment
...
-----
Fan tray 1 (FAN-TAC20):
1st fan :      12136 RPM
2nd fan :      12522 RPM
```

```
-----  
Fan tray 2 (FAN-TAC20) :  
1st fan :                12173 RPM  
2nd fan :                12443 RPM  
-----  
Fan tray 3 (FAN-TAC20) :  
1st fan :                12249 RPM  
2nd fan :                12404 RPM  
-----  
Fan tray 4 (FAN-TAC20) :  
1st fan :                12288 RPM  
2nd fan :                12326 RPM  
-----  
...
```

Power LEDs

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

- Solid GREEN indicates that the power supply unit (PSU) has power and is operating normally.
- Blinking AMBER indicates that the PSU is not inserted in the chassis.
- Off indicates that the PSU is present but without power.

System LED

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

- Off indicates no power
- Blinking GREEN indicates the node is booting or the system is in diagnostic mode
- Solid GREEN indicates normal operation
- Solid RED indicates the system has failed

Port Status LEDs

For each port, there are four (4) port status LEDs on the front of the chassis. At 40Gb and 100Gb speeds, only the first 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 there is traffic flowing through the port

The other three LEDs operate when ports are in breakout mode as follows:

- Off indicates the port is in non-breakout mode

- GREEN indicates the link is operationally up
- AMBER indicates the port is administratively disabled

Global Fan LED

The global fan LED on the front of the chassis (FAN) is as follows:

- Solid GREEN indicates all fans are operating normally
- Solid AMBER indicates one or more fans have failed

Individual Fan LEDs

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

- GREEN indicates the fan is operating normally
- AMBER indicates the fan has failed

Individual Power LEDs

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

- GREEN indicates the PSU is operating normally
- AMBER indicates the input cord is unplugged, the input power has been lost, or there is a critical event that has caused the PSU to shutdown

GigaVUE TA Series-TA200 Notes and Rules

Keep in mind the following notes and rules when using the GigaVUE TA Series-TA200:

GigaVUE TA Series-TA200 Notes	
Transceivers	For details about the supported transceiver, cable type, and connectivity specifications, refer to <i>"GigaVUE-OS Compatibility and Interoperability Matrix"</i> .
Network, Tool, Hybrid, or Stack Port	The 100Gb/40Gb ports on GigaVUE TA Series-TA200 can be used as network, tool, hybrid, or stack-link ports. For stack-link support, refer to Stack-Links .
Stack-Links	<ul style="list-style-type: none"> ▪ Stack-Links at 10Gb/25Gb—When ports on the GigaVUE TA Series-TA200 are broken out into 4x10G mode or 4x25G mode, they support stack-links. ▪ Stack-Links at 100Gb—PRT-HD0-C06X24 on GigaVUE TA Series HD Series (LR4 and CWDM4 only on C06 ports) and not supported with SR4 transceivers. <p>For details about the supported 10Gb/25Gb/40Gb/100Gb stack-links, refer to <i>"GigaVUE-OS Compatibility and Interoperability Matrix"</i>.</p>

Map Rules and Port Filters	The GigaVUE TA Series-TA200 supports 256 map rules per chassis, by default and 20 egress port filters per chassis. For details about the maximum map rules, refer to the "Maximum Map Rules" table in the <i>GigaVUE-FM Users Guide</i> .
Port Licensing	On the GigaVUE TA Series-TA200, only the first 32 out of 64 ports are enabled. A port license is available to enable an additional 32 ports. Refer to Port Licensing on page 63 .
Cluster Licensing	Connecting a GigaVUE TA Series-TA200 to a cluster requires the Advanced Features License.

AMI BIOS Images

The GigaVUE TA Series-TA200 has an AMI Basic Input/Output System (BIOS). The BIOS image is packaged with the software image, starting in software version 5.3. The BIOS contents are stored in flash memory, allowing the BIOS to be upgraded. There are two flash components, a primary and a secondary.

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

```
(config) show version
...
1st flash version: amibios-ta200-1.0.9 Fri Feb 9 04:52:22 UTC 2018**
2nd flash version: amibios-ta200-1.0.9 Fri Feb 9 04:52:22 UTC 2018
SW BIOS version: amibios-ta200-1.0.9 Fri Feb 9 04:52:22 UTC 2018
...
```

If there is a component failure in the primary flash, the GigaVUE TA Series-TA200 boots from a backup golden BIOS image in the secondary flash. An SNMP trap can be configured to be sent when the system has booted from the secondary flash. The trap may indicate that the primary flash component needs to be serviced. The trap is as follows:

```
2ndflashboot: Secondary flash boot notification
```

Air Flow Direction

The air flow direction is from the front of the GigaVUE TA Series-TA200 chassis to the rear. The rear-mounted fans pull air from the front to the back of the chassis. Install the chassis so the intake air at the front of the chassis is cold.

AC and DC-Powered GigaVUE TA Series-TA200 Models

Gigamon provides both AC and DC-powered versions of the GigaVUE TA Series-TA200. 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 TA Series-TA200. Note the following:

- There is a risk of fire if the battery is replaced with an incorrect type.
- Use only CR-2032L type Lithium metal coin cell battery and replace with the same.

Breakout Modes

The breakout modes for GigaVUE TA Series can be either in card mode or port mode. GigaVUE-TA10 allows card breakout mode whereas GigaVUE-TA25, GigaVUE-TA40, GigaVUE-TA100, GigaVUE-TA100-CXP, GigaVUE-TA200 allows port breakout mode. Refer to [Configure the Card Mode – 40Gb/10Gb Support](#) and [Configure the Port Mode](#) for further details.

Configure the Card Mode – 40Gb/10Gb Support

GigaVUE TA Series-TA10 also enable the first four 40Gb ports (q1..q4). By default, these ports are available for use as single, logical 40Gb ports.

Refer to [Configuring the Card Mode on GigaVUE-TA10](#) and [Breakout Panels](#).

Changing the card mode resets all port and packet distribution settings, therefore, set the card mode during the initial configuration.

NOTE: The GigaVUE TA Series-TA100, GigaVUE TA Series-TA100-CXP, GigaVUE TA Series-TA200 and GigaVUE-TA25 do not support the card mode, but support the port mode. Refer to [Configure the Port Mode](#). Then refer to [Breakout Panels](#).

Configuring the Card Mode on GigaVUE TA Series-TA10

The following card modes are available for the GigaVUE TA Series-TA10:

- **48x** (default) – Four 40Gb ports (q1..q4) and 48 10Gb ports (x1..x48)
- **56x (use with patch panel or breakout cables)** – Two 40Gb ports (q3..q4) and 56 10Gb ports. Port q1 is used as x49..x52 on the patch panel. Port q2 is used as x53..56 on the patch panel.
- **64x (use with patch panel or breakout cables)** – 64 10Gb ports (x1..x64). Port q1..q4 are connected at the patch panel as follows:
 - **q1** – x49..x52
 - **q2** – x53..x56
 - **q3** – x57..x60
 - **q4** – x61..x64

To specify card modes use the following procedure:

1. Deconfigure the card with the following command:

no card slot 1

NOTE: This removes all port and traffic settings for the system.

2. To set the new card mode for GigaVUE TA Series-TA10:

card slot 1 mode <48x | 56x | 64x>

The settings for each available mode are summarized in [Table 10: 40Gb Port Settings by Card Mode on GigaVUE TA Series-TA10](#):

Table 10: 40Gb Port Settings by Card Mode on GigaVUE TA Series-TA10

Card Mode	Physical 40Gb Interface on GigaVUE TA Series-TA10			
	q1	q2	q3	q4
48x (default)	40Gb (q1)	40Gb (q2)	40Gb (q3)	40Gb (q4)
56x	10Gb (x49..x52)	10Gb (x53..x56)	40Gb (q3)	40Gb (q4)
64x	10Gb (x49..x52)	10Gb (x53..x56)	10Gb (x57..x60)	10Gb (x61..x64)

Notes on GigaVUE TA Series-TA10 Card Modes

- The default card mode is 48x.
- When a 40Gb port is used as four 10Gb ports, removing the QSFP+ will affect the connections for all four 10Gb ports. For example, removing the QSFP from q1 results in a loss of signal event for x49..x52.
- The q1..q4 40Gb ports include a single link LED on the GigaVUE TA Series-TA10 faceplate. When a physical 40Gb interface is used as four 10Gb ports, the 40Gb port LED indicates the status of the **first** of the four 10Gb ports on the patch panel (for example x49 in the x49..x52 group, x53 in the x53..x56 group, and so on). The other three ports in the group do not affect the link LED for the 40Gb port on the GigaVUE TA Series-TA10 faceplate.

Once the card mode has been configured, refer to [Breakout Panels](#).

Configure the Port Mode

The port breakout modes are as follows:

- **4x10G**—Specifies the **4x10G** port breakout mode. This mode applies to GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, GigaVUE TA Series-TA200 nodes and GigaVUE-TA25 and to QSFP28 ports on GigaVUE TA Series-TA00-CXP nodes. This mode provides a 4 x 10Gb breakout option for 40Gb ports.

- **4x25G**—Specifies the **4x25G** port breakout mode. This mode applies to GigaVUE TA Series-TA200 and GigaVUE-TA25 nodes. This mode provides a 4 x 25Gb breakout option for 100Gb ports.
- **none**—Specifies no port breakout mode. This is the default mode for GigaVUE TA Series nodes.

Any of the 100Gb ports on the GigaVUE-TA100 (1/1/c1 to 1/1/c32), the first 32 ports on the GigaVUE-TA200 (1/1/c1 to 1/1/c32), the eight QSFP28 ports (1/1/c21 to 1/1/c28) on the GigaVUE-TA100-CXP or the eight ports on GigaVUE-TA25 (1/1/c1..1/1/c8) can operate at 40Gb with QSFP+ SR transceivers. A 40Gb port can be broken out into four 10Gb ports, called subports. In GigaVUE-TA25 only the ports c1 and c5 support 4 x10G breakout mode.

The subports will all have the same speed (10Gb). Subports will have x1 to x4 appended to their port ID, for example, when port 1/1/c2 on GigaVUE-TA100 is configured to 4x10G mode, the subports will be: 1/1/c2x1, 1/1/c2x2, 1/1/c2x3, and

1/1/c2x4. When port 1/1/c21 on GigaVUE-TA100-CXP is configured to 4x10G mode, the subports will be: 1/1/c21x1, 1/1/c21x2, 1/1/c21x3, and 1/1/c21x4.

In **4x10G** mode, the subports can function as network, tool, or hybrid ports, as well as GigaStream port members. Subports on GigaVUE-TA100 and GigaVUE-TA200 can also function as stack ports. In addition, the first 12 and the last 12 ports in GigaVUE-TA40 can also function as stack ports.

- The maximum number of 10Gb subports on a GigaVUE-TA100 is 128 (32 x 4).
- The maximum number of 10Gb subports on a GigaVUE-TA100-CXP is 32 (8 x 4).
- The maximum number of 10G subports on a GigaVUE-TA200 is 128 (32 x 4).
- The maximum number of 10G subports on a GigaVUE-TA40 is 96 (24 x 4).
- The maximum number of 10G subports on GigaVUE-TA25 is 8 (2 x 4)

The 100Gb QSFP28 ports (1/1/c1 to 1/1/c10 and 1/1/c23 to 1/1/c32) on the GigaVUE-TA200 and GigaVUE-TA25 can be broken out into four 25Gb ports, called subports. In GigaVUE-TA25 only the ports c1 and c5 support **4 x25G** breakout mode.

The subports will all have the same speed (25Gb). Subports will have x1 to x4 appended to their port ID, for example, when port 1/1/c2 on GigaVUE-TA200 is configured to 4x25G mode, the subports will be: 1/1/c2x1, 1/1/c2x2, 1/1/c2x3, and 1/1/c2x4. The maximum number of 25Gb subports on a GigaVUE-TA200 is 128 (32 x 4).

In GigaVUE-TA25 the maximum number of 25Gb subports is 8 (2x 4)

In **4x25G** mode, the subports can function as network, tool, or hybrid ports, as well as GigaStream port members. They cannot function as stack ports.

There are rules for configuring parent ports and subports. For more information, refer to the port command in the reference section of the GigaVUE-OS CLI Reference Guide.

Once the port breakout mode has been configured, refer to [Breakout Panels](#).

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

Breakout Panels

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

The following breakout panels are available:

- PNL-M341
- PNL-M343

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

Getting Unpacked, Racked, Installed and Connected

[Figure 9Getting Started](#) shows the steps required to get a GigaVUE TA Series Traffic Aggregator mounted and running:

▼

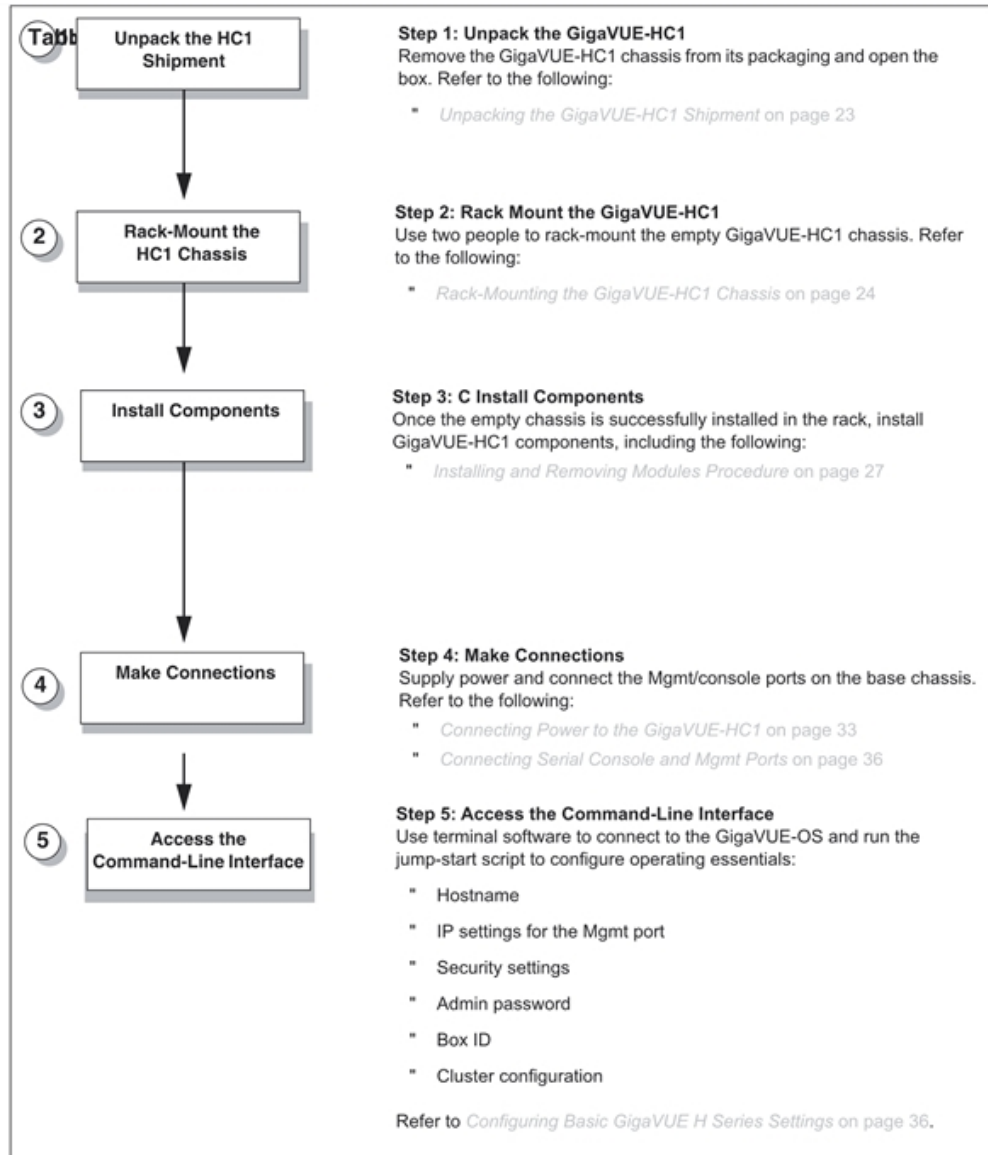


Figure 9 Getting Started

Unpacking the GigaVUE TA Series Traffic Aggregator

Unpack the GigaVUE TA Series Traffic Aggregator and inspect the box it was shipped in. If the carton was damaged, please file a claim with the carrier who delivered it.

Remove the protective shipping covers and screws. Save the protective shipping covers and replace the screws in the holes on the system so that they are easily saved in case you need to ship the system again.

Next, select a suitable location for the rack unit that will hold the GigaVUE TA Series Traffic Aggregation node. Choose a location that is clean, dust free, and well ventilated. You will need access to a grounded power outlet. Avoid areas where heat, electrical wire, and electromagnetic fields are generated.

Plan for enough clearance in front of a rack so you can open the front door completely (approximately 25in) and enough clearance in the back of the rack to allow sufficient airflow.

Rack-Mounting the GigaVUE TA Series TA Series

- [Rack-Mounting the GigaVUE-212 on page 108](#)

Safety Precautions

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

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

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

This section describes how to 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.

GigaVUE TA Series Traffic Aggregation nodes are shipped with rack ears for front-mounting or rear-mounting ([Figure 10GigaVUE 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 can either be front mounted or rear mounted using the rack ears as shown below. GigaVUE TA Series-TA200 and GigaVUE-TA25 can only be front mounted.



Front-Mounting Rack Ears

In this picture, the rack ears are attached facing towards the front of the chassis.

Rear-Mounting Rack Ear Position

You can also attach the rack ears at the rear of the unit for a rear-mount installation. Does not apply to GigaVUE-TA200.

Figure 10 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 TA Series-TA200 and GigaVUE-TA25) using the supplied screws.

As shown in [Figure 10 GigaVUE TA Series Traffic Aggregator Rack Ears in Front-Mount Position](#), the rack ears can be attached 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. These rails can be used for four point mounting on four-post racks. The keyhole rivets on the sides of each node can be used to adjust the fit of the node to the desired position or dimension on the rack.

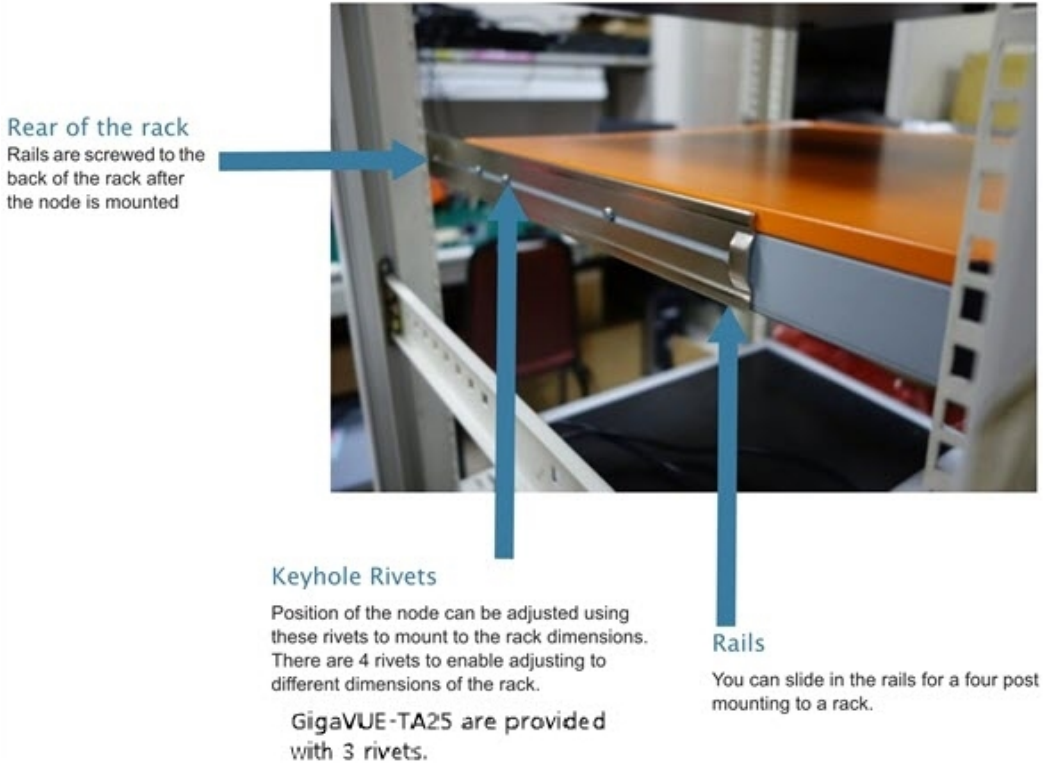


Figure 11 GigaVUE TA Series Traffic Aggregator with Rail Mounting for Four-Post Racks

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 12 *Front View of the Mounted Node to the Four-Post Rack*

2. Slide in the provided rails on to the node. The position of the rails can be adjusted to fit the dimensions of the rack by sliding over the rivets and placing them securely over the rivets once set in the desired position.



Figure 13 Rear View of the Mounted Node and Rails on the Four-Post Rack

3. Last, tighten the rails to the rear posts using the supplied screws.

Basic Connections and Configuration

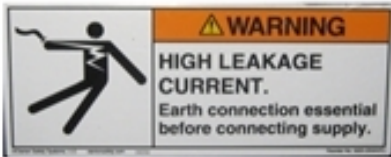
This chapter describes how to establish your first configuration session with the GigaVUE TA Series Traffic Aggregator and set the basic initial configuration options necessary to get you up and running.

Refer to the following sections for details:

Grounding the GigaVUE TA Series TA Series Chassis



1. Locate the grounding holes at the rear of the chassis. Refer to [Figure 14 Ground Screws \(GigaVUE TA Series-TA10 Shown\)](#) or [Figure 15 Ground Screws \(GigaVUE TA Series-TA200 Shown\)](#).



The GigaVUE-HC3 chassis has a grounding lug located at the center rear of the chassis. Connect grounding wire to the grounding lug on the chassis using the following procedure.

Figure 14 *Ground Screws (GigaVUE TA Series-TA10 Shown)*



Figure 15 *Ground Screws (GigaVUE TA Series-TA200 Shown)*

2. Install ground screws meeting the following specifications:
#8 Panhead, Phillips-drive, Exterior SEM screw Thread size = 3/2 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:

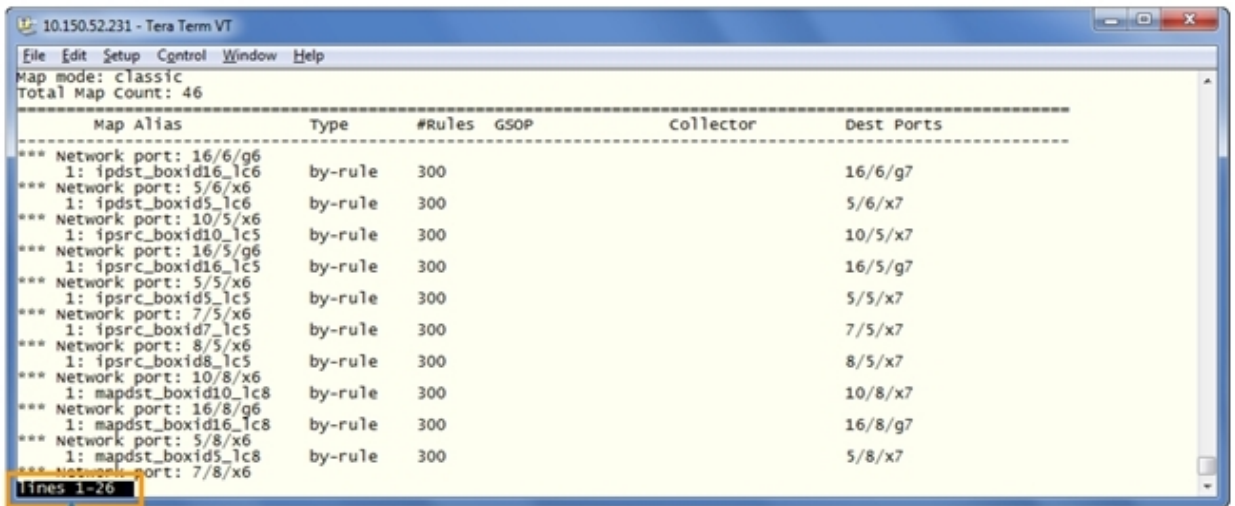
- Always use an ESD-preventive wrist or ankle strap and ensure that it makes good skin contact. The strap can be connected to one of the following:
 - Captive installation screws on chassis.
 - Any unpainted surface on the chassis.
- Avoid contact between the cards and clothing. The wrist strap protects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

Connecting Power to the GigaVUE TA Series TA Series

The procedure below describes how to supply power to the GigaVUE TA Series TA Series node.

1. Plug an approved C13 power cable into each of the power supplies at the rear of the GigaVUE TA Series TA Series as shown in [Figure 16Connecting AC Power](#) to [Figure 18Connecting AC Power on a GigaVUE TA Series-TA200](#).

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



h

When you see the paging prompt at the base of the CLI display, you can press the h key to see a summary of the available options.

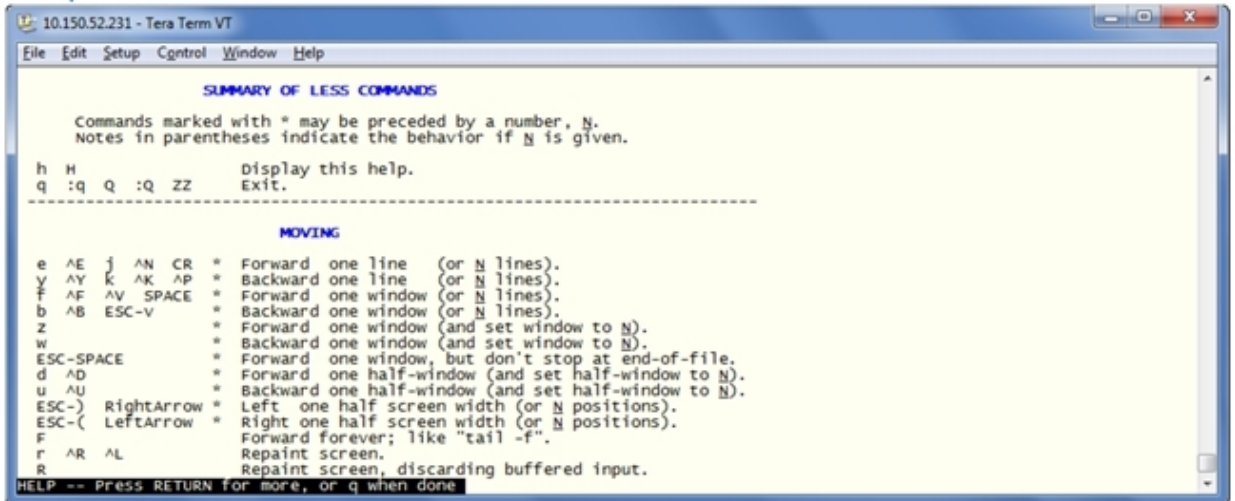


Figure 16 Connecting AC Power



Figure 17 Connecting AC Power on a GigaVUE TA Series-TA100



Figure 18 Connecting AC Power on a GigaVUE TA Series-TA200

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

NOTE: If you are using the optional second power supply provided with the node, plug the two power supplies into separate circuits for optimal power protection. For information on the GigaVUE TA Series TA Series power requirements, refer to [Power Requirements on page 90](#).

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

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

Connecting -48V DC Power Supplies

The GigaVUE TA Series Traffic Aggregator is available with 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:

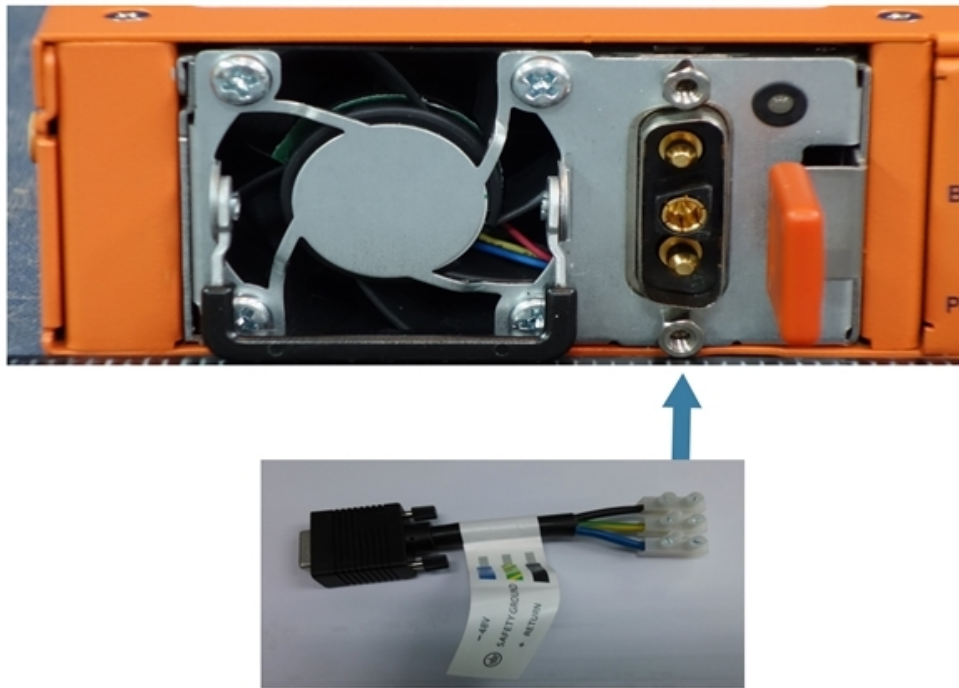


Figure 19 Connecting -48V DC Power Cable Adapter

1. Plug the DC power cable adapter into the DC power supply.

NOTE: Terminal block supports 10AWG.

2. 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-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.

Replacing Fans

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

To remove a fan:

1. Locate lever and handle as shown in [Figure 20 Replacing a Fan \(GigaVUE TA Series-TA10 Shown\)](#).

```
(config) # show web
Web-based management console enabled: yes

HTTP enabled:          yes
HTTP port:             80
HTTP redirect to HTTPS: yes
HTTPS enabled:         yes
HTTPS port:           443
Require certificates from DoD CA: no
HTTPS certificate name: default-cert
Listen enabled:        yes
No Listen Interfaces.

Inactivity timeout:    15 min
Session autologout:   2 hr 30 min
Session renewal:      30 min

Web client (for file transfers)
Proxy enabled: no
HTTPS server cert verify: yes
HTTPS supplemental CA list: default-ca-list
```

Figure 20 Replacing a Fan (GigaVUE TA Series-TA10 Shown)

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

To insert a fan:

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

Connecting Serial Console and Mgmt Ports

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

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

NOTE: This cable is Cisco-compatible. Refer to [B Console Port Signaling and Cabling on page 99](#) for pinout details.

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

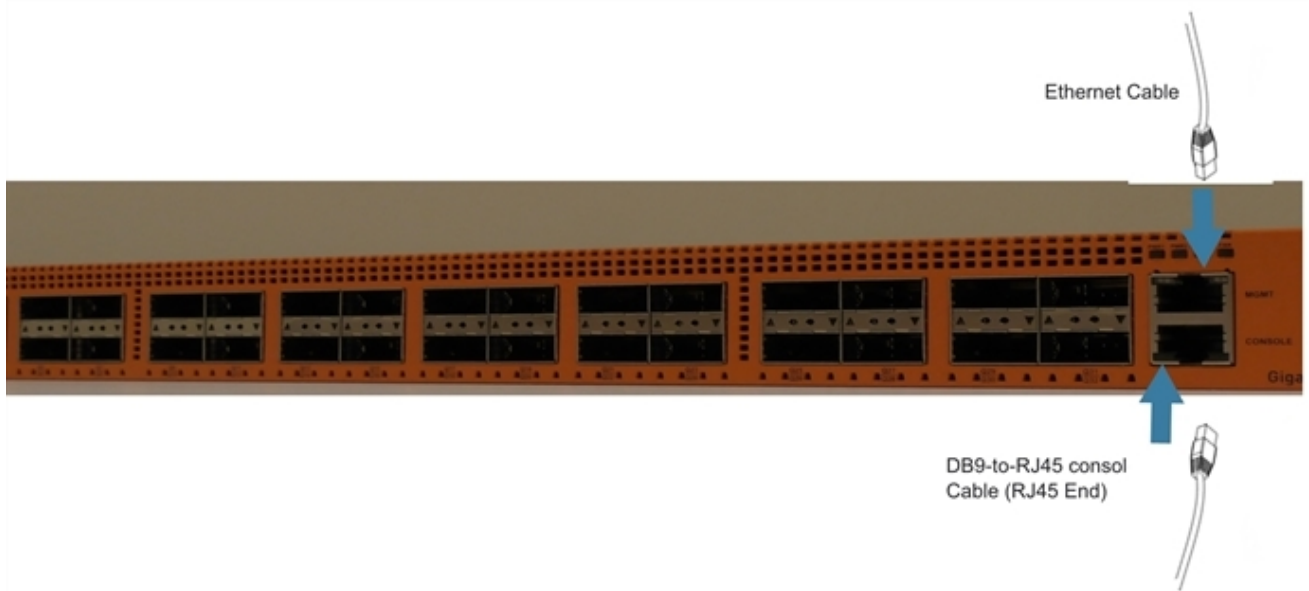


Figure 21 Connecting the Console and Management Ports

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

Configuring Basic Settings

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

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

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

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

Access the Command-Line Interface over the console Port

1. Make the basic power and console cable connections described in [Connecting Serial Console and Mgmt Ports](#) and power on the GigaVUE TA Series node.
2. Start a terminal application on the PC. Common terminal applications include TeraTerm, PuTTY, and Hyperterminal.

3. Select the COM port connected to the console cable attached to the console port. For example, **COM1**.
4. Configure the port settings for the console connection as follows:
 - o **Bits per second** – 115,200
 - o **Data bits** – 8
 - o **Parity** – None
 - o **Stop bits** – 1
 - o **Flow control** – None

NOTE: On the GigaVUE TA Series-TA10 and GigaVUE TA Series-TA40, you can change the console port's speed if you need to by using the procedure in [Changing the Console Port's Speed](#).

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

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

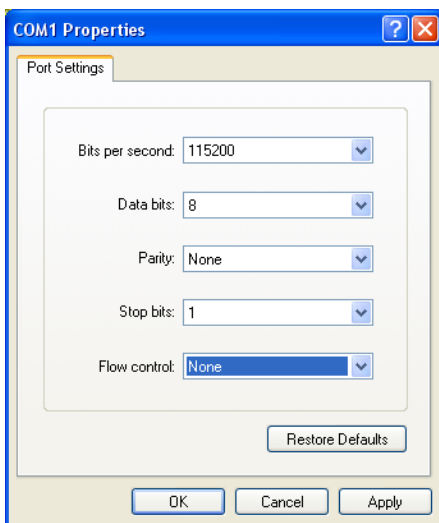


Figure 22 Setting COM Port Properties for the Console Connection

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

User:admin

Password:admin123A!

The **configuration jump-start** automatically starts and forces a password change.

The system administrator must change the password on the default **admin** account through the **jump-start** script. The default password (admin123A!) is no longer allowed. Refer to [Run the Jump-Start Script](#) for details.

A password must meet the following standards:

- include 8-30 characters
- include at least one numeral
- include at least one upper case letter
- include at least one lower case letter
- include at least one special character (for example, !, @, #, \$, %, ^, &, or * -, ASCII 0x21, 0x2F, 0x3A, 0x40, 0x5B, 0x5F, 0x7B, 0x7E)
- Must not include the user name or parts of full-name.

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

Changing the Console Port's Speed

By default, the console port operates at 115,200bps. You can change the speed of the console port to 9600bps on the GigaVUE TA Series-TA10 and GigaVUE TA Series-TA40 with the **serial baudrate <9600 | 115200>** command.

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

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

Run the Jump-Start Script

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

1. Switch to **Config** mode.

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

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

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

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

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

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

terminal resize

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

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

Hostname	The hostname appears in the system prompt and is used to identify the chassis in SNMP traps.
Management Port Network Settings	<p>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:</p> <ul style="list-style-type: none"> • 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	<p>Enable the following security settings:</p> <ul style="list-style-type: none"> ▪ secure cryptography mode ▪ secure passwords mode ▪ minimum password length <p>Refer to the GigaVUE-OS CLI Reference Guide for information on security.</p>
Admin Password	<p>The password for the admin account must be changed to a non-default password.</p>
Cluster Enable?	<p>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.</p> <p>If clustering is enabled, you will not be prompted for a box ID in the next step.</p> <p>Refer to the <i>GigaVUE-OS CLI Reference Guide</i> for information on setting up a cluster.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>NOTE: Connecting a Traffic Aggregator to a cluster requires a license.</p> </div>
Box ID for the Node	<p>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.</p> <p>You will be prompted for a box ID only if clustering was not enabled in the previous step.</p>

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

Need to Change Any Settings?

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

- Use the **hostname** command to change the system’s hostname.
- Use the **interface eth0** command to reconfigure or fine-tune Mgmt port settings, including basic IP settings (DHCP or static address and subnet mask) and physical parameters (duplex, MTU, and speed).
- Use the **ip** command to change the default gateway, DNS server, and domain name.

- You can also use the **username admin password <password>** command to change the **admin** user's password. Refer to [Changing the admin Account Password](#).
- Use the **chassis box-id** command to change the system's **box-id**.

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

Port Licensing

GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-100-CXP and GigaVUE-TA25 have all ports enabled.

Additional ports are available through licenses for the following GigaVUE TA Series products:

- [GigaVUE TA Series-TA10A](#)
- [GigaVUE TA Series-TA100](#)
- [GigaVUE TA Series-TA200](#)
- [GigaVUE-TA25A](#)

Contact your Sales representative for port licenses. Refer to [Contacting Sales on page 107](#).

GigaVUE TA Series-TA10A

The GigaVUE TA Series-TA10 has all forty-eight (48) 1Gb/10Gb ports and four (4) 40Gb ports enabled. It has serial numbers Dxxxx and does not require a port license.

A twenty-four (24) port GigaVUE TA Series-TA10 version, called the GigaVUE TA Series-TA10A, is available with only the first 24 1Gb/10Gb ports enabled. The GigaVUE TA Series-TA10A has serial numbers Gxxxx and product code 132-00D1. A license is needed to expand a GigaVUE TA Series-TA10A to include all 48 1Gb/10Gb ports as well as the four (4) 40Gb ports.

Use the following CLI command to display the GigaVUE TA Series-TA10A chassis information:

```
# show chassis
  Chassis: Box ID           : 5*  Hostname           : BAT-ta10  Config           :
yes Mode           : normal Oper Status      : up  HW Type           : TA10A-
Chassis Vendor     : Gigamon Product Code     : 132-00D1  Serial Num
: G1234 HW Rev     : 1.0 SW Rev              : 4.6.01
```

GigaVUE TA Series-TA100

On the GigaVUE TA Series-TA100, only the first 16 out of 32 100Gb ports are enabled. Two port licenses are available to enable an additional 8 or 16 ports to expand from 16 ports to 24 ports or from 16 ports to 24 ports and then to 32 ports.

GigaVUE TA Series-TA200

On the GigaVUE TA Series-TA200, only the first 32 out of 64 100Gb ports are enabled. A port license is available to enable an additional 32 ports to expand from 32 ports to 64 ports.

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       : Gigamon
  Product Code : 132-00FK
  Serial Num   : M002E
  HW Rev       : 1.1
  SW Rev       : 5.10.00_Beta
  GDP         : disable
```

Enabling 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 TA Series-TA10A, GigaVUE TA Series-TA100, GigaVUE TA Series-TA200 or GigaVUE-TA25A use the following command:

```
(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 is the license key obtained for the purposes of enabling additional ports

Use the following procedure to 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 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-TA10A:

```
(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

GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, GigaVUE TA Series-TA200 and GigaVUE-TA25 nodes can be clustered with GigaVUE TA Series H Series nodes. Clustering is enabled with an Advanced Features License.

Contact your Sales representative for Advanced Features Licenses. Refer to [Contacting Sales on page 107](#).

Command-Line Basics

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

Command-Line Modes

The GigaVUE-OS can operate in one of three modes, each with its own set of available commands – Standard, Enable, and Configure. When you first launch the CLI, you start in Standard mode with access to a limited amount of commands used to review system status. As you move from **Standard** mode to **Enable** mode to **Configure** mode, both the power and the number of commands available increase, as summarized in [Figure 23GigaVUE-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.

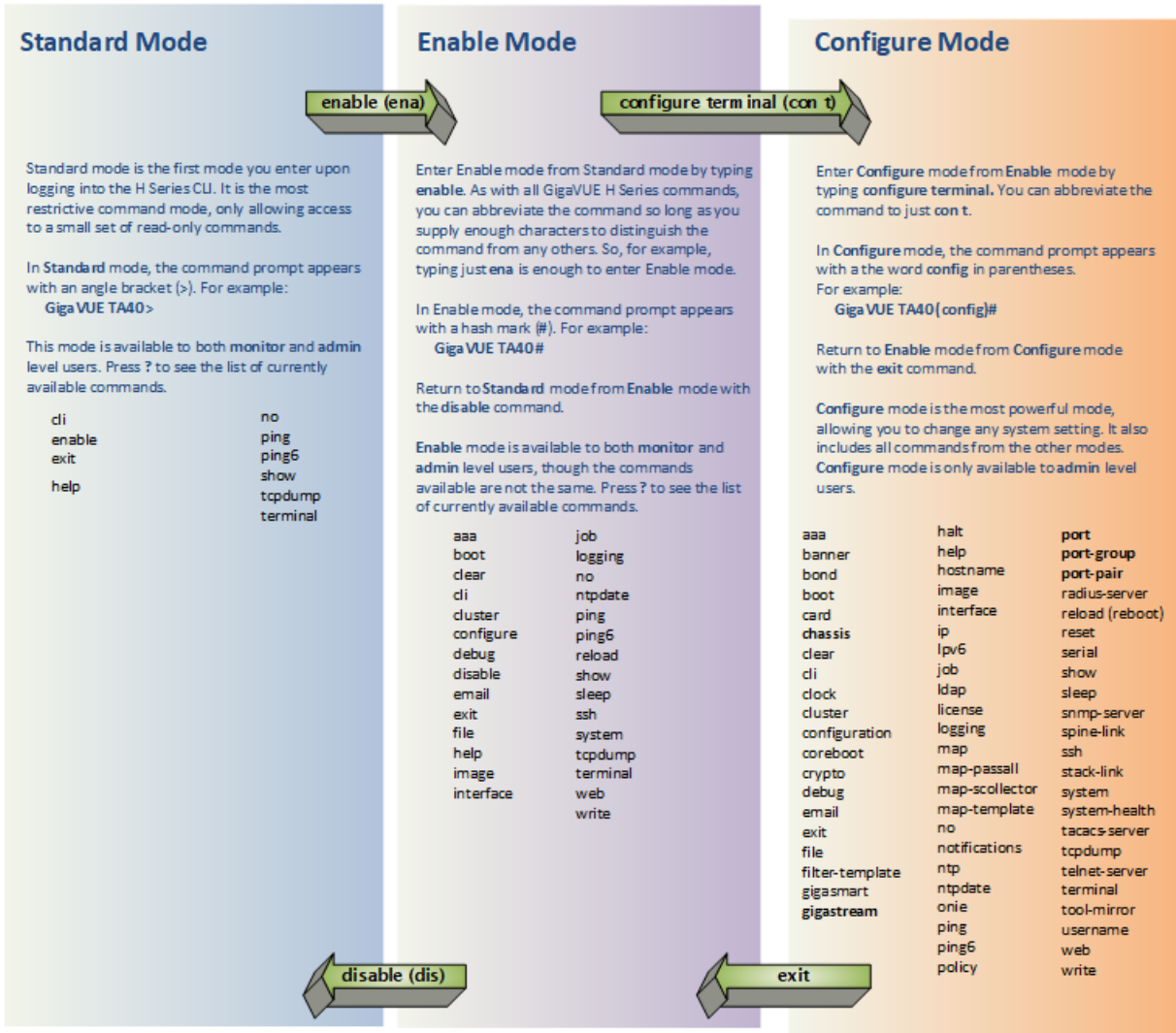


Figure 23 GigaVUE-OS Command-Line Modes

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	<p>The <code>?</code> symbol is the key to receiving help wherever you are in the CLI:</p> <ul style="list-style-type: none"> Type the <code>?</code> by itself to see a list of all available commands. Word Help – Type a partial word with a <code>?</code> mark immediately following the partially-typed word to see a list of all

Technique	Description
	<p>possible commands using the word entered so far.</p> <p>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:</p> <p>image interface ip</p> <ul style="list-style-type: none"> ▪ 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. <p>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.</p> <p>NOTE: Typing ? accesses the help system immediately – you do not need to press <Enter>.</p>
<p>Partial Command Entry</p>	<p>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.</p>
<p>Command Completion</p>	<p>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.</p> <p>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:</p> <p>pass-all ping port port-pair</p> <p>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.</p>

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 24 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

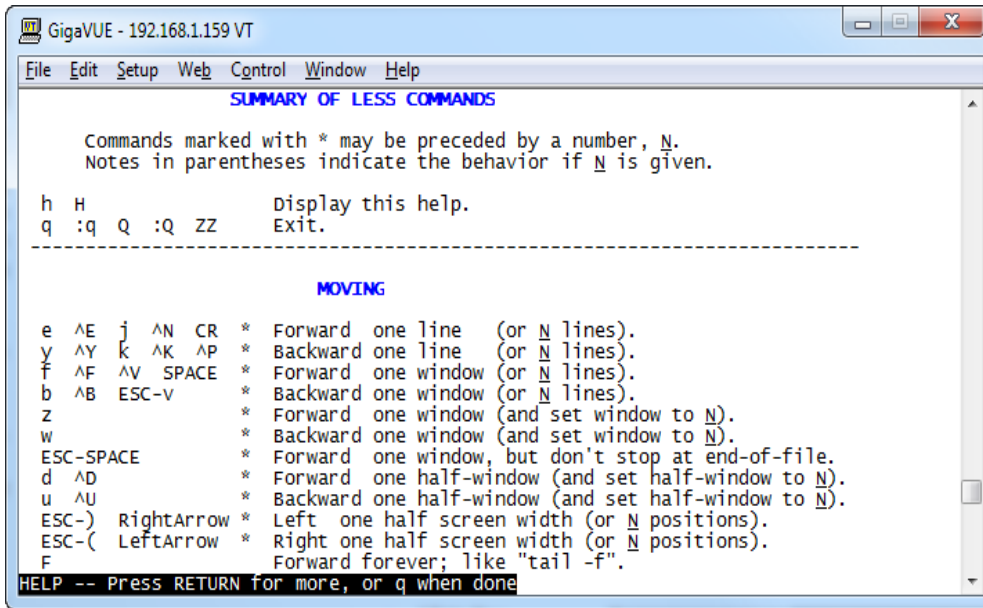


Figure 24 Viewing Paging Options

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
<i>aaa</i>	Configure authentication, authorization, and accounting settings.
<i>banner</i>	Set a system login banner.
<i>bond</i>	Configure bonded interface settings.
<i>boot</i>	Configure system boot parameters.
<i>card</i>	Configure a card. On TA Series nodes, use the <i>card</i> command to enable additional ports on GigaVUE TA Series nodes.
<i>chassis</i>	Configure the chassis.
<i>clear</i>	Reset statistics or clear caches.
<i>cli</i>	Configure CLI shell options.
<i>clock</i>	Set the system clock or timezone.
<i>cluster</i>	Configure a cluster of connected nodes.
<i>configuration</i>	Manage configuration files.
<i>configure</i>	Enter Configure mode.
<i>coreboot</i>	Upgrades the BIOS image on GigaVUE TA Series-TA100, GigaVUE TA Series-TA100-CXP, GigaVUE-HC1, GigaVUE-HC3 and GigaVUE-TA25.

Command	Description
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.
disable	Leave Enable mode and return to Standard mode.
email	Configure email and event notification via email.
enable	Enter Enable mode.
exit	Leave Configure mode and return to Enable mode or log out of the CLI.
file	Manage TCP and debug dump files on disk.
filter-template	Configures flexible filter templates on GigaVUE-HC3, GigaVUE TA Series-TA100 and GigaVUE-TA25.
gigasmart	Configures a stack port interface to provide Internet connectivity for a GigaSMART card or module.
gigastream	Configure a GigaStream – a group of ports acting as a single addressable tool port destination or stack-link.
halt	Shut down the system without powering it off.
help	View a description of the interactive help system.
hostname	Specify the system's hostname. The hostname appears in the system prompt and in SNMP traps.
ib-pathway	Reserved for future use.
image	Manage system software images.
interface	Configure network interfaces.
ip	Configure IP settings for the eth0 Mgmt port.
ipv6	Configure IPv6 settings for the eth0 Mgmt port.
job	Configure scheduled jobs.
ldap	Configure LDAP server settings for authentication.
license	<p>Activate features using license keys. On GigaVUE TA Series-TA10A ,GigaVUE-TA25A and GigaVUE TA Series-TA100, use this command to enable additional ports. (GigaVUE TA Series-TA10,GigaVUE TA Series-TA40, GigaVUE-TA25 and GigaVUE TA Series-TA100-CXP have all ports enabled.)</p> <p>Use this command to enable clustering on the following TA Series nodes: GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100 and GigaVUE-TA25.</p>
logging	Configure event logging.
map	Configure maps and map rules to manage GigaVUE TA Series traffic distribution.
map-passall	Create a pass-all map to send all traffic on a network port to a tool port irrespective of the other packet distribution in place on the port.
map-collector	Configure shared collector map parameters.
map-template	Create a map template.
no	Delete or clear certain configuration options.
notifications	Configures notification settings.
ntp	Enable and disable the use of NTP, as well as add NTP servers.
ntpdate	Set system clock once from a remote server using NTP.
ping	Send ICMP echo requests to a specified host.

Command	Description
<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.
<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 ethx 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.

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

- Switch to the Configure mode. Refer to [Enter the Configure Command-Line Mode](#).
- Configure SSH access to the node. Refer to [SSH2](#).
- Configure some basic user accounts. Refer to [Initial User Account Configuration](#).
- Configure the node name. Refer to [Configuring the GigaVUE TA Series TA Series Host Name](#).
- Configure time and date options for the node. Refer to [Configuring GigaVUE TA Series TA Series Node's Time Options](#).
- Enable the Web server for Web-based GUI access. Refer to [Enabling the Web Server](#).
- Save your changes! Refer to [Saving Changes](#).

Enter the Configure Command-Line Mode

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

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

SSH2

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

Command	Notes
Enable: (config) # ssh server enable Disable: (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: <ol style="list-style-type: none"> a. Start PuTTY and enter the GigaVUE TA Series Traffic Aggregator's IP address in the Host Name field. b. Click the SSH protocol radio button. c. Click Open to open a connection. If this is your first connection PuTTY warns you that the host key presented by the GigaVUE TA Series node is not in your cache. You can add the key, connect without adding the key, or cancel the connection. Refer to Verifying Host Keys During Connection for information on how to verify that the host key shown is the correct one. d. Log in with GigaVUE TA Series credentials.

Advantages of SSH2

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

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

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

Verifying Host Keys During Connection

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

Changing Host Keys

You can use the **ssh server host-key generate** command to change the default host keys provided with the GigaVUE TA Series 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

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

```
(config) # username admin password <password>
```

Passwords must meet the following standards:

- 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

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

- Once you have configured these basic user accounts, use the **show usernames** command to review your settings. [Figure 25 Reviewing the User List](#) shows some sample **show usernames** output after several users have been added.

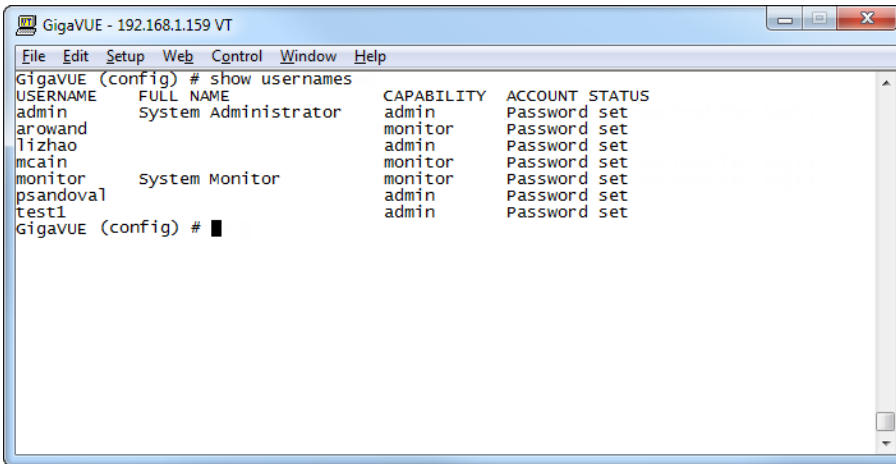


Figure 25 Reviewing the User List

Configuring the GigaVUE TA Series TA Series Host Name

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

Setting the System Name

1. Use the **hostname** command to specify the system name. For example:

```
(config) # hostname GigaVUE TA Series-Customer
```

Configuring GigaVUE TA Series TA Series Node's Time Options

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

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

Setting Time Manually

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

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

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

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

Performing One-Time NTP Server Synchronization

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

```
(config) # ntpdate time.nist.gov
```

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

Using NTP Time Server for System Clock Synchronization

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

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

```
(config) # ntp server 192.168.1.10
```

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

2. Turn on NTP with the following command:

```
(config) # ntp enable
```

3. The GigaVUE TA Series node connects to the specified NTP server and synchronizes to its time.
4. NTP reports times in UTC. Because of this, It is a good idea to specify the GigaVUE TA Series node's timezone so that UTC can be converted to the local timezone.

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

```
(config) # clock timezone America North United_States Pacific
```

Once you've finished configuring NTP options, use the **show ntp** command to check the status of clock synchronization ([Figure 26 Checking NTP Status and Configuration](#)).

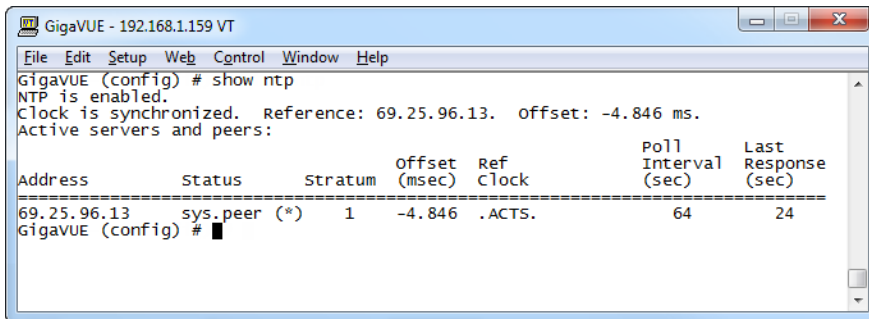


Figure 26 Checking NTP Status and Configuration

Enabling the Web Server

GigaVUE-FM is Gigamon's Web-based management interface for the GigaVUE-OS, including the GigaVUE TA Series TA Series nodes. You can use GigaVUE-FM for many system configuration, management, and operations tasks.

To use GigaVUE-FM with a GigaVUE TA Series node, you must enable its Web server with the **web enable** command. For example:

```
(config) # web enable
```

Check the status of the Web server using the **show web** command. Make sure that **Web-based management console enabled:** is set to **yes**, indicating that the Web server is enabled. For example:



Connecting to GigaVUE-OS from H-VUE

After you enable the GigaVUE TA Series node's Web server, it automatically listens for connections from H-VUE using either HTTP on port 80 or HTTPS on port 443. Use the following procedure to connect to a GigaVUE TA Series node using H-VUE.

NOTE: You can configure whether the GigaVUE TA Series node redirects all incoming HTTP connections to the HTTPS port with the **web http redirect** command.

1. Open a supported browser. For the list of the latest browser support available, refer to the *GigaVUE-OS CLI Reference Guide* for the release you have installed on the GigaVUE TA Series node.
2. Enter one of the following URLs:

https://<GigaVUE TA Series Node IP Address>http://<GigaVUE TA Series Node IP Address>

3. The first time you connect to H-VUE, your browser will prompt you regarding an invalid security certificate. Depending on the browser you are using, you can avoid these warnings either by installing a certificate or adding an exception.

NOTE: Gigamon provides the nodes with self-signed certificates for use with GigaVUE-FM; you can also create and install a third-party certificate on these nodes.

Add an exception in Firefox as follows:

- a. Click the **Or you can add an exception** link.
- b. Click the **Add Exception** button.

- c. Click the **Get Certificate** button.
- d. Click the **Confirm Security Exception** button.

The GigaVUE-FM login page appears.

4. Enter a valid user name and password and click **Login**.

Configuring Internet Explorer for Use with GigaVUE-FM

H-VUE 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
<p>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.</p>	<pre>(config) # email mailhub smtp.emailsrvr.com</pre>
<p>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.</p>	<pre>(config) # email auth username alerts@mycompany.com (config) # email auth password mypassword123</pre>
<p>Once account is setup turn on email authentication.</p>	<pre>(config) # email auth enable</pre>
<p>Now that the settings are configured, let the system send emails. Set up who to send them to and when to send them. Use email notify recipient to configure the destinations for event notification emails. Multiple destinations can be specified by separating by commas with no spaces.</p>	<pre>(config) # email notify recipient cday@mycompany.com,mfelton@mycompany.com</pre>
<p>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.</p>	<pre>(config) # email notify event all</pre>
<p>It is a good idea to check your settings and make</p>	<pre>(config) # email send-test</pre>

Description	Command
<p>sure emails are sent successfully. You can do that with the email send-test command. If you do not receive the email, check the show log output to make sure the email was sent. Then, reconfigure email settings, if necessary.</p>	
<p>You may also want to configure and enable autosupport emails. Autosupport emails are sent directly to Gigamon’s Technical Support department when specified events take place, enabling proactive problem resolution. The GigaVUE TA Series is preconfigured with the correct destination address – you just need to enable the feature with the following command.</p> <p>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.</p>	<p>(config) email autosupport enable</p>
<p>That’s it! Emails will now be sent automatically to the configured addresses when any of the selected events take place.</p> <p>There are many other options for fine-tuning automatic email settings, including how to handle “dead letters” (emails that did not reach their recipient), how the email address of the GigaVUE TA Series should appear, the port for the email server, the reply-to address, and so on.</p>	

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

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

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

Connecting Ports on GigaVUE TA Series TA Series

This chapter provides information on the transceivers supported for use with the GigaVUE TA Series 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 ten (10) or more seconds before re-inserting the same or different optical transceiver.
- 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.

- Port numbers starting with a q (for example, q1) are 40Gb.
- Port numbers starting with an x (for example, x10) are 10Gb or 1Gb depending on the transceiver installed.

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

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

BiDi Optics Considerations

There are several nuances to consider due to the complexity in 40Gb BiDi technology.

Because of the nature of 40Gb BiDi technology, the same BiDi optic (Full Duplex or RX-only) cannot be used in all of the following situations. For example:

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

Transceiver Installation Instructions

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

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

Installing Transceivers

1. Remove the dust cap from the port if present.
2. Orient the transceiver with the opening and insert it into the slot.
3. Push gently but firmly until the transceiver is seated in the slot.
4. Close the latch on the SFP to lock it into the slot.

Removing Transceivers

1. Disconnect the cable (if any) from the transceiver.
2. If you are removing a fiber-optic transceiver, install dust caps in the transceiver to protect the optical interfaces.
3. Open the latch on the transceiver and gently remove it from the slot.
4. If you are not installing a new transceiver, install a dust cap in the open slot.

Cabling

Refer to the following sections for cabling:

- [MPO/MTP 12 Position Fiber Cable for Use with SR4 Transceivers](#)
- [MTP/APC 12 Position 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 Cabling Quick Reference 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 27 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.

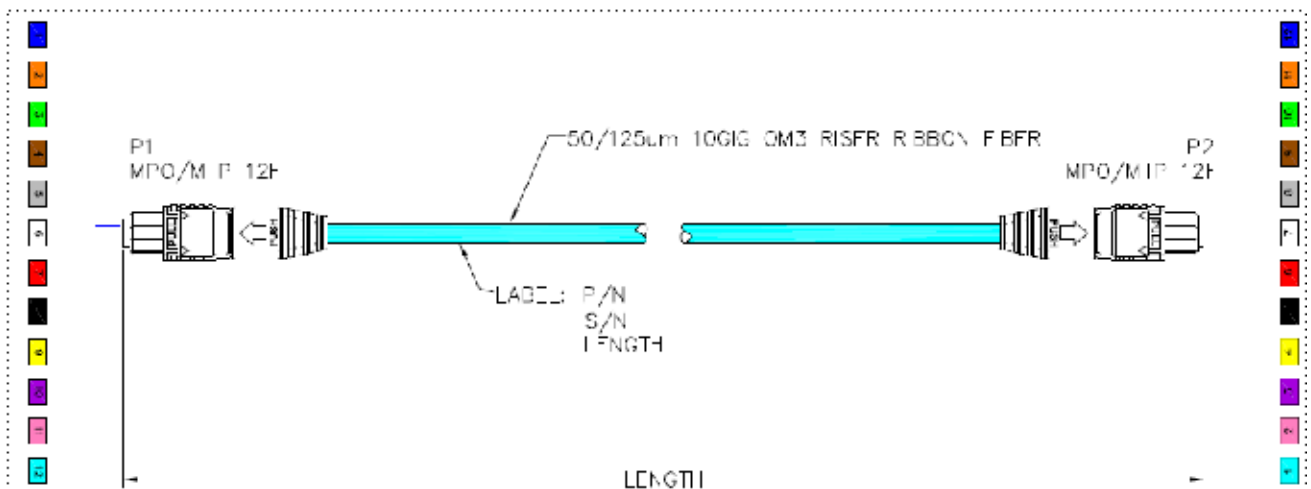


Figure 27 MPO/MTP 12 Position Fiber Cable

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 $9/125\mu\text{m}$. [Figure 28 MTP/APC Cable](#) provides details for MTP/APC 12 position fiber cable for use with 40Gb QSFP+ PLR4 transceivers on the GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, or GigaVUE TA Series-TA100 node.

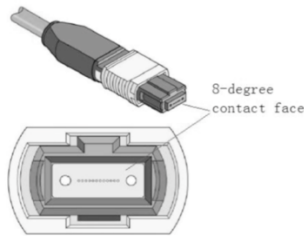


Figure 28 MTP/APC Cable

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

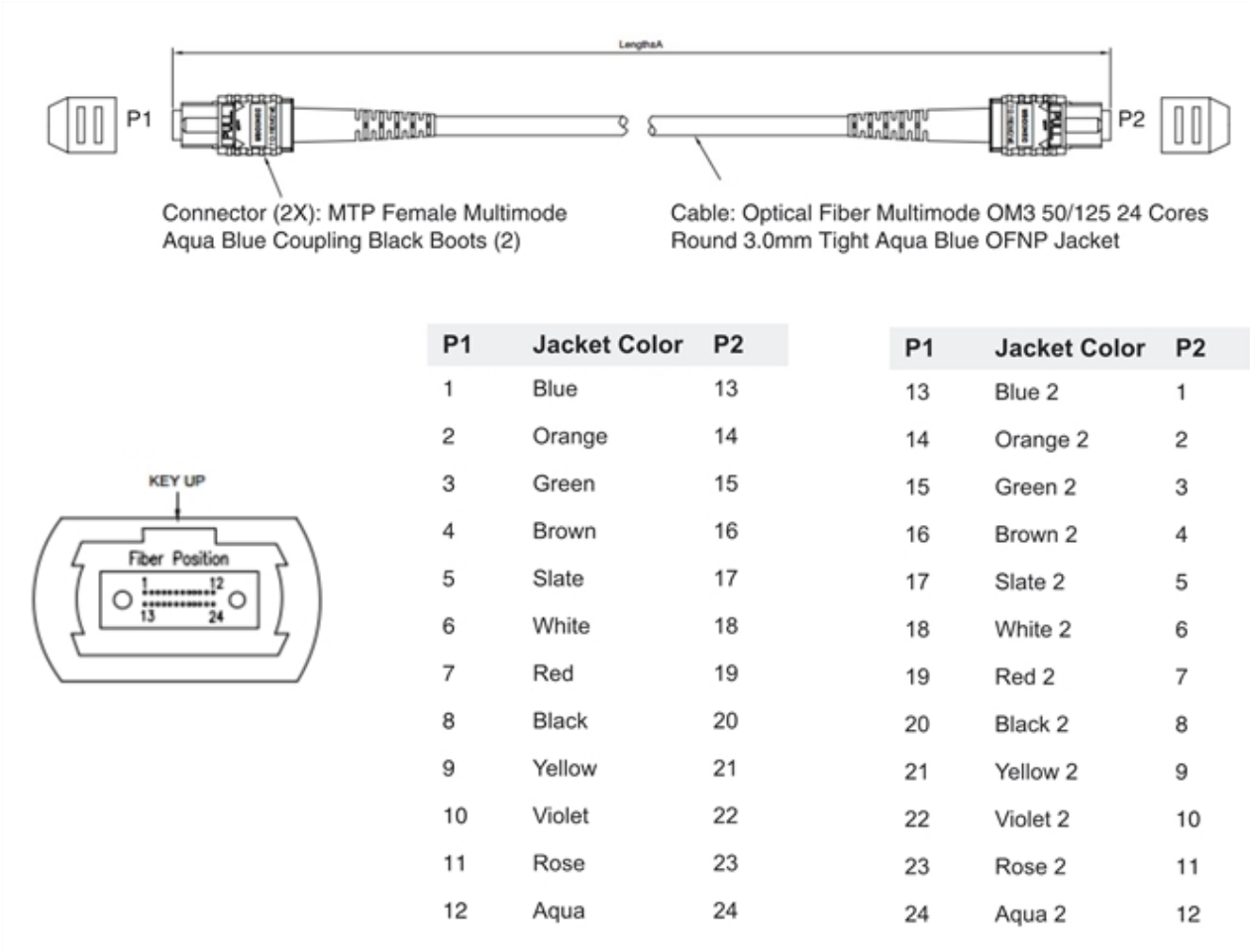


Figure 29 MPO/MTP 24 Position Fiber Cable

GigaVUE TA Series TA Series Specifications

This section provides the physical specifications, power requirements and environmental specifications for the GigaVUE TA Series Traffic Aggregation nodes, GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, GigaVUE TA Series-TA100-CXP, GigaVUE TA Series-TA200 and GigaVUE-TA25. Compliance for safety, emissions and immunity are also provided.

Refer to the following topics for details:

Physical Dimensions and Weight

The following table summarizes the dimensions for the GigaVUE TA Series Traffic Aggregation nodes, GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, GigaVUE TA Series-TA100-CXP, GigaVUE TA Series-TA200 and GigaVUE-TA25:

Product	Height	Width	Depth	Weight (AC Version)
GigaVUE TA Series-TA10 with mounting brackets	1.74in (1RU) (4.42cm)	19.00in (48.26cm)with ears 17.32in (44cm)without ears	Metal to Metal 18.12in (46.0cm) Including latches19.25in (48.89cm)	19.05lb(8.64kg)
GigaVUE TA Series-TA40 with mounting brackets	1.74in (1RU) (4.42cm)	19.00in (48.26cm)with ears 17.32in (44cm) without ears	Metal to Metal 18.12in (46.0cm) Including latches19.25in (48.89cm)	20.15lb/(9.14kg)
GigaVUE TA Series-TA100 with mounting brackets	1.74in (1RU) (4.42cm)	19.00in (48.26cm)with ears 17.32in (44cm) without ears	Metal to Metal 18.12in (46.0cm) Including latches19.25in (48.89cm)	22.99lb(10.43kg)
GigaVUE TA Series-TA100-CXP with mounting brackets	1.74in (1RU) (4.42cm)	19.00in (48.26cm)with ears 17.32in (44cm) without ears	Metal to Metal 18.12in (46.0cm) Including latches19.25in (48.89cm)	24.89lb(11.29kg)
GigaVUE TA Series-TA200 with two power supplies	3.48in (2RU) (8.84cm)	19.00in (48.26cm)with ears 17.32in (44cm)without ears	Metal to Metal 19.68in (50cm) Including latches21.25in (54cm)	33.6lb(15.24kg)
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 11: Power Requirements for GigaVUE TA Series-TA10 to GigaVUE TA Series-TA100 and TA100-CXP Fan Tray Specifications](#) summarize the electrical characteristics for the

GigaVUE TA Series Traffic Aggregation nodes, GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, GigaVUE TA Series-TA100-CXP, GigaVUE TA Series-TA200 and GigaVUE-TA25.

NOTE: Refer to [Connecting -48V DC Power Supplies on page 54](#) for instructions on how to connect -48V DC power supplies.

Table 11: Power Requirements for GigaVUE TA Series-TA10

Power Configurations	1+1 Power: 2 Power Supply Modules
Max Power Consumption/Heat Output	220 Watts; 751 BTU/hr
AC Power Supply Modules	Min/Max Voltage: 100V–127V AC, 200V–240V AC, 50/60HzMax PSM Input Current: 5.8A@100V, 2.9A@200V
DC Power Supply Modules	Min/Max Voltage: -40.5 to -60V DCMax PSM Input Current: 24A@ -40.5V

Table 12: Power Requirements for GigaVUE TA Series-TA40

Power Configurations	1+1 Power: 2 Power Supply Modules
Max Power Consumption/Heat Output	280 Watts; 954.8 BTU/hr
AC Power Supply Modules	Min/Max Voltage: 100V–127V AC, 200V–240V AC, 50/60HzMax PSM Input Current: 5.8A@100V, 2.9A@200V
DC Power Supply Modules	Min/Max Voltage: -40.5V to -60V DCMax PSM Input Current: 24A@ -40.5V

Table 13: Power Requirements for GigaVUE TA Series-TA100 and GigaVUE TA Series-TA100-CXP

Power Configurations	1+1 Power: 2 Power Supply Modules
Max Power Consumption/Heat Output	550 Watts; 1892.7 BTU/hr
AC Power Supply	Min/Max Voltage: 100V–127V AC, 200V–240V AC, 47-63HzMax PSM Input Current: 9.4A@100V, 4.72A@200V
DC Power Supply	Min/Max Voltage: -40.5V to -60V DCMax PSM Input Current: 24A@40.5V

Table 14: Power Requirements for GigaVUE TA Series-TA200

Power Configurations	1+1 Power: 2 Power Supply Modules
Max Power Consumption/Heat Output	1069 Watts; 3645.29 BTU/hr

AC Power Supply	Min/Max Voltage: 100V–127V AC, 200V–240V AC, 47-63Hz Max PSM Input Current: 13.8A@100V, 8.5A@200V
DC Power Supply	Min/Max Voltage: -36V to -72V DC Max PSM Input Current: 42A@-36V

Table 15: 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 TA Series-TA100 and TA100-CXP

The GigaVUE TA Series-TA100 and GigaVUE TA Series-TA100-CXP use a fan tray for cooling. [GigaVUE TA Series-TA100 and TA100-CXP Fan Tray Specifications](#) summarizes the characteristics of the fan tray.

GigaVUE TA Series-TA100 and TA100-CXP Fan Tray Specifications

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

Fan Tray Specification for GigaVUE TA Series-TA200

The GigaVUE TA Series-TA200 uses a fan tray for cooling. [GigaVUE TA Series-TA200 Fan Tray Specifications](#) summarizes the characteristics of the fan tray.

GigaVUE TA Series-TA200 Fan Tray Specifications

Rated Voltage	12V DC
Input Power	Maximum 96W
Maximum Speed	13200 RPM
Type	Tubeaxial (dual) 80mm x 80mm

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 16: 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 17: Environmental Specifications for GigaVUE TA Series-TA10 and GigaVUE TA Series-TA40 summarizes the environmental specifications for the GigaVUE TA Series Traffic Aggregation nodes, GigaVUE TA Series-TA10 and GigaVUE TA Series-TA40. Environmental Specifications summarizes the environmental specifications for the GigaVUE TA Series-TA100, GigaVUE TA Series-TA100-CXP, GigaVUE TA Series-TA200 and GigaVUE-TA25.

Table 17: Environmental Specifications for GigaVUE TA Series-TA10 and GigaVUE TA Series-TA40

Specification	Value
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Relative Humidity	20% to 80%, 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 10000ft (3.05km)

Table 18: Environmental Specifications for GigaVUE TA Series-TA100, TA100-CXP, TA200 and 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 10000ft (3.05km) for GigaVUE TA Series-TA100 and GigaVUE TA Series-TA100-CXP Up to 16405ft (5.00km) for GigaVUE TA Series-TA200 and GigaVUE-TA25.

Standards and Protocols

IEEE 802.3-2012, IEEE 802.1Q VLAN, IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-X, IEEE 802.3ae 10000BASE-X, IEEE 802.3ba, RFC 783 TFTP, RFC 791 IP, RFC 793, TCP, RFC 826 ARP, RFC 768 UDP, RFC 792 ICMP, SNMP v1/v2c, RFC 2131 DHCP client, RFC 1492 TACACS+, and support for IPv4 and IPv6.

Compliance

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

Safety

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

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

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](#). (not applicable on GigaVUE TA Series-TA100-CXP)
- EN 55032/CISPR 32 Class A
- Australia/New Zealand AS/NZS CISPR-32 Class A (not applicable on GigaVUE TA Series-TA100-CXP)
- KCC Class A (not applicable on GigaVUE TA Series-TA100-CXP)
- BSMI (GigaVUE TA Series-TA100 and GigaVUE TA Series-TA200)
- CCC, EAC (GigaVUE TA Series-TA100 and GigaVUE TA Series-TA200)

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 TA Series-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

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 (GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, and GigaVUE TA Series-TA100). Refer to [C NEBS Level 3 Compliance on page 101](#).

Security

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

- FIPS 140-2 (GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, and GigaVUE TA Series-TA100-CXP). Refer to “FIPS 140-2 Compliance” in the *GigaVUE-OS CLI User's Guide*.
- UC APL (option available for GigaVUE TA Series-TA10 and GigaVUE TA Series-TA40). Refer to “UC APL Compliance” in the *GigaVUE-OS CLI User's Guide*.
- Common Criteria (option available for GigaVUE TA Series-TA10 and GigaVUE TA Series-TA40). Refer to “Common Criteria” in the *GigaVUE-OS CLI User's Guide*.

BSMI RoHS

The RoHS label for Taiwan BSMI for GigaVUE TA Series-TA200 is as follows:

設備名稱：乙太網交換機，型號（型式）：GigaVUE-TA200 Equipment name Type designation (Type)						
單元 Unit	限用物質及其化學符號 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 %”係指限用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. “○”係指該項限用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. “—”係指該項限用物質為排除項目。 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
<p>A급 기기 (업무용 방송통신기자재)</p> <p>Class A Equipment (Industrial Broadcasting & Communication Equipment)</p>	<p>이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.</p> <p>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.</p>

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-and-services/warranty>

Regulatory Labels

This section provides regulatory labels for GigaVUE TA Series TA Series nodes.


GigaVUE TA Series-TA10

 GigaVUE-TA10 This area reserved for Serial Number and Barcode	
Change patent numbers to these: 7424018, 7436832, 7440467, 7792047, 7835358, 7889748, 8391285. Other patents pending.	
 MSIP-REM-DN-GigaVUE-TA10 상 호 명: Delta Networks, Inc. 기 자 제 의 명 칭 (모 델 명): GigaVUE-TA10 제 조 연 달: 제 조 자 / 제 조 국 : Delta Networks, Inc./중국	    
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) 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。 产品型号/產品型號: GigaVUE-TA10 产品名称/產品名稱: 以太网交换机/以太网交换机 额定输入: 200~240Vac, 2.8A Max, 50/60Hz (每个电源的输入) 制造商/製造商: 达创科技股份有限公司/達創科技股份有限公司 仅适用于在海拔2000m以下地区安全使用 此为A级产品, 在生活环境中该产品可能会造成无线电干扰, 在这种情况下可能需要用户对其它干扰采取切实可行措施。	
Supports dual, redundant, hot-swap power-supplies. AC CONFIGURATION: Input: 100~127 / 200~240V~, 5.8/2.8A, 50/60Hz (for each power supply) Nom. Power Consumption: 220W Nom. BTU Output: 751BTU/hr DC CONFIGURATION: Input: -40.5V ~ -80V / 24A~16A (for each power supply) Nom. Power Consumption: 220W Nom. BTU Output: 751BTU/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.	
 05410-17-10660	
Made in Taiwan 台湾制造/台灣製造 400216-B1	

GigaVUE TA Series-TA40

 GigaVUE-TA40 This area reserved for Serial Number and Barcode	
Change patent numbers to these: 7424018, 7436832, 7440467, 7792047, 7835358, 7889748, 8391285. Other patents pending.	
 MSIP-REM-DN-GigaVUE-TA40 상 호 명: Delta Networks, Inc. 기 자 제 의 명 칭 (모 델 명): GigaVUE-TA40 제 조 연 달: 제 조 자 / 제 조 국 : Delta Networks, Inc./중국	    
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) 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。 产品型号/產品型號: GigaVUE-TA40 产品名称/產品名稱: 以太网交换机/以太网交换机 额定输入: 200~240Vac, 2.8A Max, 50/60Hz (每个电源的输入) 制造商/製造商: 达创科技股份有限公司/達創科技股份有限公司 仅适用于在海拔2000m以下地区安全使用 此为A级产品, 在生活环境中该产品可能会造成无线电干扰, 在这种情况下可能需要用户对其它干扰采取切实可行措施。	
Supports dual, redundant, hot-swap power-supplies. AC CONFIGURATION: Input: 100~127 / 200~240V~, 5.8/2.8A, 50/60Hz (for each power supply) Nom. Power Consumption: 280W Nom. BTU Output: 866.6 BTU/hr DC CONFIGURATION: Input: -40.5V ~ -80V / 24A~16A (for each power supply) Nom. Power Consumption: 280W Nom. BTU Output: 866.6 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.	
 05410-17-10660	
Made in Taiwan 台湾制造/台灣製造 400215-B1	


GigaVUE TA Series-TA100








GigaVUE-TA100

This area reserved for
Serial Number and Barcode

Change patent numbers to these: 7424018, 7436632, 7440467, 7792047, 7836358, 7889748, I391285. Other patents pending.



상 호 명: Delta Networks, Inc.
기타제외 명칭 (모델명): GigaVUE-TA100
제조년월:
제조사/제조국: Delta Networks, Inc./중국


Supports dual, redundant, hot-swap power-supplies.
AC CONFIGURATION:
Input (輸入): 100-127 / 200-240V~, 9.4/4.72A, 50/60Hz (for each power supply)
Nom. Power Consumption: 540W
Nom. BTU Output: 1841.4 BTU/hr
DC CONFIGURATION:
Input (輸入): -40.5V ~ -60V ~ /34A~16A (for each power supply)
Nom. Power Consumption: 550W
Nom. BTU Output: 1892.65 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.

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)
この装置は、クラス A 電波技術装置です。この装置を家庭環境で使用すると電磁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示唆される場合があります。
产品名称/產品名稱: GigaVUE-TA100
额定輸入: 200-240W ac, 4.72A Max, 50/60Hz (每个电源的輸入)
製造商/製造商: 達創科技股份有限公司/達創科技股份有限公司
仅适用于海拔2000m 以下地区安全使用
此为A 类产品, 在生活环境该类产品可能会造成无线干扰, 在这种情况下可能需要用户对其它干扰采取确实可行措施。



Made In Taiwan
台灣製造/台灣製造
400262-B1


GigaVUE TA Series-TA100-CXP



GigaVUE-TA100-CXP

This area reserved for
Serial Number and Barcode



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: 100-127 / 200-240V~, 9.4/4.72A, 50/60Hz (for each power supply)
Nom. Power Consumption: 540W
Nom. BTU Output: 1841.4 BTU/hr
DC CONFIGURATION:
Input: -40.5V ~ -60V ~ /34A~16A (for each power supply)
Nom. Power Consumption: 550W
Nom. BTU Output: 1892.65 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.

Made In Taiwan
400346-A0

Contents

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GigaVUE TA Series-TA200



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-TA200


상 호 명: Gigamon Inc.
기 자 재 의 명 칭 (모 델 명): GigaVUE-TA200
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)]
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

产品型号/產品型號: GigaVUE-TA200
产品名称/產品名稱: 以太网交换机/以太网交換機
额定输入: 200~240Vac, 5A, 47~63Hz (每个电源的输入)
製造者/製造商: 邁智科技股份有限公司/邁智科技股份有限公司
此为A级产品。在生活环境中该产品可能会造成无线电干扰。
在这种情况下可能需要用户对其它干扰采取切实可行的措施。
(警告: 多电源供电, 断开电源时请多电源同时断开)



Supports dual, redundant, hot-swap power-supplies.

AC CONFIGURATION:
Input (輸入): 100-127 / 200-240V~, 10/5A, 47-63Hz
(for each power supply)
Nom. Power Consumption: 1000W
Nom. BTU Output: 3410 BTU/hr

DC CONFIGURATION:
Input (輸入): -56V --- -72V --- M2A
(for each power supply)
Nom. Power Consumption: 1069W
Nom. BTU Output: 3645.29 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.



警告使用者:
此為中階資訊技術設備, 於最佳環境中使用時, 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。


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400427-A1

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.
기 자 재 의 명 칭 (모 델 명): 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.



警告使用者:
此為中階資訊技術設備, 於最佳環境中使用時, 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。

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NEBS Level 3 Compliance

This appendix provides installation instructions for GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, and GigaVUE TA Series-TA200 Network Equipment-Building System (NEBS) Level 3 compliance.

Installation Instructions GigaVUE TA Series-TA10, TA40, TA100, TA200

The following sections detail installation instructions for GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, and GigaVUE TA Series-TA200.

Topics:

Intrabuilding or Intra-connection for GigaVUE TA Series-TA10

WARNING: The intra-building ports:

- RJ45: Management port, Console port
- 1G/10G SFP/SFP+: X1 - X48
- 40G QSFP+: Q1-Q4

GigaVUE TA Series-TA10 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 metallicity 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 metallicity to OSP wiring.

Intrabuilding or Intra-connection for GigaVUE TA Series-TA40

WARNING: The intra-building ports:

- RJ45: Management port, Console port
- 40G QSFP+: Q1-Q32

GigaVUE TA Series-TA40 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 metallicity 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 metallicity to OSP wiring.

Intrabuilding or Intra-connection for GigaVUE TA Series-TA100

WARNING: The intra-building ports:

- RJ45: Management port, Console port
- 100G QSFP28: C1-C32
- 40G QSFP+: C1-C32

GigaVUE TA Series-TA100 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 metallicity 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 metallicity to OSP wiring.

Intrabuilding or Intra-connection for GigaVUE TA Series-TA200

WARNING: The intra-building ports:

- RJ45: Management port, Console port
- 100G QSFP28: C1-C64
- 40G QSFP+: C1-C64

GigaVUE TA Series-TA200 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 metallicity 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 metallicity to OSP wiring.

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 metalically 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 metalically 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 TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, GigaVUE TA Series-TA200 shall be located in a restricted access location where only crafts personnel are allowed access.

Class B Voltage Accessibility

The GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, or GigaVUE TA Series-TA200 shall be located in a restricted access location where only crafts personnel are allowed access.

Equipment Grounding Systems

The GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, GigaVUE TA Series-TA200 shall be installed and connected to the (CBN).

Communication Equipment Grounding

The GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, or GigaVUE TA Series-TA200 is suitable for connection to the (Central Office and CPE).

Bonding of Battery Return (BR) Input Terminals

The battery returns of the GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, or GigaVUE TA Series-TA200 shall be connected as (DC-I).

Connections

- a. The GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, or GigaVUE TA Series-TA200 shall be grounded via a copper ground conductor #6 AWG for CPE installation.
- b. All bare grounding connection points to the GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, or GigaVUE TA Series-TA200 shall be cleaned and coated with an antioxidant solution before connections are made.
- c. All surfaces on the GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, or GigaVUE TA Series-TA200 that are unplated shall be brought to a bright finish and treated with an antioxidant solution before connections are made.
- d. All non-conductive surfaces on the GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, or GigaVUE TA Series-TA200 shall be removed from all threads and connection points to ensure electrical continuity.
- e. Multiple connectors shall not be 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 shall be 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 shall be removed from threads and other contact surfaces to assure electrical continuity.
- i. GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, or GigaVUE TA Series-TA200 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. Only listed two-hole compression-type connectors shall be used in making connection to flat surfaces (such as bus bars, frames, racks, or cabinets). Torquing and bolts assembly requirements for securing the connector shall be as specified by the connector supplier.

- j. Anti-rotation devices, such as lock washers, will be used on grounding lugs to minimize the possibility of loosening from rotation during installation and maintenance activities.

Input AC/DC Voltage

The GigaVUE TA Series-TA10, GigaVUE TA Series-TA40, GigaVUE TA Series-TA100, and GigaVUE TA Series-TA200 is capable of operating 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).

Additional Sources of Information

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

- [Documentation](#)
- [Documentation Feedback](#)
- [Contact Technical Support](#)
- [Contact Sales](#)
- [The Gigamon Community](#)

Documentation

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

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

Table 1: Documentation Set for Gigamon Products

GigaVUE TA Series 5.13 Hardware and Software Guides
<p>DID YOU KNOW? If you keep all PDFs for a release in common folder, you can easily search across the doc set by opening one of the files in Acrobat and choosing Edit > Advanced Search from the menu. This opens an interface that allows you to select a directory and search across all PDFs in a folder.</p>
<p>Hardware</p> <p>how to unpack, assemble, rack-mount, connect, and initially configure ports the respective GigaVUE TA Series devices; reference information and specifications for the respective GigaVUE TA Series devices</p>
<p>*G-TAP A Series 2 Installation Guide</p>
<p>GigaVUE-HC1 Hardware Installation Guide</p>
<p>GigaVUE-HC2 Hardware Installation Guide</p>
<p>GigaVUE-HC3 Hardware Installation Guide</p>
<p>GigaVUE M Series Hardware Installation Guide</p>
<p>GigaVUE TA Series Hardware Installation Guide</p>
<p>*GigaVUE-OS Installation Guide for DELL S4112F-ON</p>
<p>Software Installation and Upgrade Guides</p>

GigaVUE TA Series 5.13 Hardware and Software Guides	
GigaVUE-FM Installation, Migration, and Upgrade Guide	
GigaVUE-OS Upgrade Guide	
Administration	
GigaVUE Administration Guide	covers both GigaVUE-OS and GigaVUE-FM
Fabric Management	
GigaVUE Fabric Management Guide	how to install, deploy, and operate GigaVUE-FM; how to configure GigaSMART operations; covers both GigaVUE-FM and GigaVUE-OS features
Cloud Configuration and Monitoring	
how to configure the GigaVUE Cloud Suite components and set up traffic monitoring sessions for the cloud platforms	
GigaVUE Cloud Suite for AnyCloud Guide	how to deploy the GigaVUE Cloud Suite solution in any cloud platform
GigaVUE Cloud Suite for AWS Guide	
GigaVUE Cloud Suite for AWS Quick Start Guide	quick view of AWS deployment
GigaVUE Cloud Suite for AWS SecretRegions Guide	
GigaVUE Cloud Suite for Azure Guide	
GigaVUE Cloud Suite for Kubernetes Guide	
GigaVUE Cloud Suite for Nutanix Guide	
GigaVUE Cloud Suite for OpenStack Guide	
GigaVUE Cloud Suite for VMware—GigaVUE-VM Guide	
GigaVUE Cloud Suite for VMware—GigaVUE V Series Guide	
GigaVUE Cloud Suite for VMware—GigaVUE-VM Guide	
Reference	
GigaVUE-OS CLI Reference Guide	library of GigaVUE-OS CLI (Command Line Interface) commands used to configure and operate GigaVUE H Series and TA Series devices
GigaVUE-OS Cabling Quick Reference Guide	guidelines for the different types of cables used to connect Gigamon devices
GigaVUE-OS Compatibility and Interoperability Matrix	

GigaVUE TA Series 5.13 Hardware and Software Guides

compatibility information and interoperability requirements for Gigamon devices

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

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

Release Notes

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

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

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

NOTE: Registered Customers can log in to [My Gigamon](#) to download the Software and Release Notes from the Software & Docs page on to [My Gigamon](#). Refer to [How to Download Software and Release Notes from My Gigamon](#).

In-Product Help

GigaVUE-FM Online Help

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

GigaVUE-OS H-VUE Online Help

provides links the online documentation.

How to Download Software and Release Notes from My Gigamon

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

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

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

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

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


Documentation Feedback

We are continuously improving our documentation to make it more accessible while maintaining accuracy and ease of use. Your feedback helps us to improve. To provide feedback and report issues in our documentation, send an email to:

documentationfeedback@gigamon.com

Please provide the following information in the email to help us identify and resolve the issue. Copy and paste this form into your email, complete it as able, and send. We will respond as soon as possible.

Documentation Feedback Form		
About You	Your Name	
	Your Role	
	Your Company	
For Online Topics	Online doc link	<i>(URL for where the issue is)</i>
	Topic Heading	<i>(if it's a long topic, please provide the heading of the section where the issue is)</i>
For PDF Topics	Document Title	<i>(shown on the cover page or in page header)</i>
	Product Version	<i>(shown on the cover page)</i>
	Document Version	<i>(shown on the cover page)</i>
	Chapter Heading	<i>(shown in footer)</i>
	PDF page #	<i>(shown in footer)</i>
How can we improve?	Describe the issue	<i>Describe the error or issue in the documentation. (If it helps, attach an image to show the issue.)</i>

	How can we improve the content? Be as specific as possible.	
	Any other comments?	
<hr/>		

Contact Technical Support

See <https://www.gigamon.com/support-and-services/contact-support> for Technical Support hours and contact information. You can also email Technical Support at support@gigamon.com.

Contact Sales

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

Telephone: +1.408.831.4025

Sales: inside.sales@gigamon.com

Partners: www.gigamon.com/partners.html

Premium Support

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

The Gigamon Community

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

Visit the Gigamon Community site to:

- Find knowledge base articles and documentation
- Ask and answer questions and learn best practices from other members.
- Join special-interest groups to have focused collaboration around a technology, use-case, vertical market or beta release
- Take online learning lessons and tutorials to broaden your knowledge of Gigamon products.
- Submit and vote on feature enhancements and share product feedback. (Customers only)
- Open support tickets (Customers only)
- Download the latest product updates and documentation (Customers only)

The Gigamon Community is a great way to get answers fast, learn from experts and collaborate directly with other members around your areas of interest.

Register today at community.gigamon.com

Questions? Contact our Community team at community@gigamon.com.