

G-TAP A Series

Comprehensive, Flexible, High Density and Versatile Tapping for Any Copper and Mixed Media Networks



Figure 1a. G-TAP A-TX and G-TAP A-SF Front Views



Figure 1b. G-TAP A-TX2 and G-TAP A-SF2 Front Views

Key Benefits

- Powerful traffic mirroring capabilities
- Multiple power options and redundancy
- Remote and local management#
- Broad range of network speeds support
- Network fail-safety
- Integration with GigaVUE® visibility nodes*

Product Description

The G-TAP® A Series is a line of network taps designed with the Gigamon “Always On” architecture. This one-of-a-kind architecture eliminates network link downtime on network connections through the use of up to four power sources, including alternating current (AC), direct current (DC), Power over Ethernet (PoE**), and on-board battery backup. While using any of the primary forms of power (AC, DC, PoE), the unique design of G-TAP A Series constantly charges the integrated backup battery, which allows it to assume power load in the event of a primary power failure. This eliminates link downtime associated to link renegotiation on the network devices connected to the tap.

Except for GTP-ATX21-C model

* G-TAP A Series 2 only

** PoE is not supported as an optional power source for G-TAP A Series 2

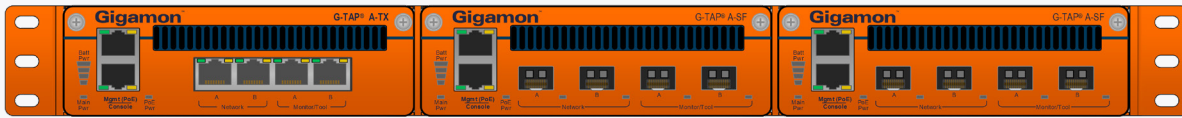


Figure 2. Front view of G-TAP A-TX and G-TAP A-SF units in rack mounting shelf



Figure 3a. Front view of power supply tray for G-TAP A-TX and G-TAP A-SF units



Figure 3b. Rear view of power supply tray for G-TAP A-TX and G-TAP A-SF units

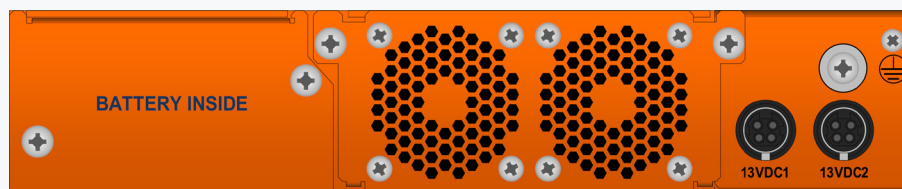


Figure 4. Rear view of G-TAP A-TX2 and G-TAP A-SF2 units

The G-TAP A Series also provides intelligent management capabilities that monitor link states of connected devices and the power state of all sources of power. In the event that primary power is lost, SNMP traps alert users that the tap is utilizing the backup battery. The SNMP traps are re-triggered as battery levels drop to ensure rapid alert and renewal of the primary power source, eliminating further network downtime. The G-TAP A Series' intelligent monitoring also offers an added level of network security to your network by providing SNMP trap alerts when existing links are removed or when new links are added. The G-TAP A Series 2 has the additional capabilities of being managed by GigaVUE-FM (along with other GigaVUE visibility nodes), secure CLI login via SSH, and SNMP version 3 for issuing trap notifications.

The G-TAP A Series is shipped with its backup battery uninstalled. The backup battery provides a failsafe in case all primary power sources (AC, DC or PoE) are unavailable. Primary power sources constantly charge the backup battery so it's ready to assume the power load in the event of a power failure on the primary sources.

G-TAP A-TX and A-SF Deployment

With or without the Rack Mount Tray

G-TAP A-TX and A-SF TAPs can be used either standalone or installed in the optional, three-across, 1RU rack mount tray (see Figure 2). The rack mount tray installs in a standard 1RU rack space using the provided hardware. You can install in two-post or four-post racks with a minimum width of 17.75 inches.

Providing Power

Power to the G-TAP A-TX and A-SF units can be provided either using the available power bricks or using the optional G-TAP A Series Power Supply Tray (PST) which is designed to power larger deployments (see Figures 3a and 3b). The PST fits in a standard 19-inch rack and can power up to twenty-four (24) TAPs. The PST offers redundant power supplies for each half of the system and can be connected to two (2) different power grids for added failsafe capabilities. This allows for redundant power connections for each of up to twelve (12) TAPs per PST. Custom DC-to-DC twist-lock power cables are used to connect the rear of the PST to the rear of the A-TX and A-SF TAPs. Cable lengths are 52in (132cm).

G-TAP A-TX2 and A-SF2 Deployment

The G-TAP A-TX2 and A-SF2 TAPs can be used either standalone or mounted in pairs in a standard 19-inch rack using the provided mounting rails. Each G-TAP A Series 2 can be powered using the available power bricks.

Key Features and Benefits

Functionality	<p>Full line-rate traffic mirroring</p> <p>Copy 100 percent of network traffic including errors, non-standard network traffic, and network packets that do not conform to established protocol standards enabling detailed analysis, security, and monitoring</p>
	<p>Multiple network and tool interfaces:</p> <ul style="list-style-type: none"> • Copper 10/100/1000 UTP & SFP • Fiber Multimode 1/10G LC & SFP/SFP+ • Fiber Singlemode 1/10G LC & SFP/SFP+ • Direct-Attach 10G SFP+ • Media conversion SFP/SFP+ <p>Depending upon G-TAP A Series model:</p> <ul style="list-style-type: none"> • Access and mirror traffic from any network type up to 10G • Feed mirrored traffic to monitoring infrastructure with any port type, whether for performance, security or troubleshooting purposes
	<p>Copper Ethernet Fail-to-Wire **</p> <p>Additional network fail-safety in case primary power sources are lost and backup battery is also drained</p>

** Only available for G-TAP A-TX and A-TX2

<p>Management#</p>	<p>Remote management using CLI via:</p> <ul style="list-style-type: none"> • Telnet • SSH* • Easily configure SNMP and monitor the states of the G-TAPs using industry familiar CLI syntax • Access the CLI securely*
	<p>Remote management using GUI via GigaVUE-FM*</p> <p>Single-pane management with Gigamon Deep Observability Pipeline, in addition to physical traffic feed integration</p>
	<p>SNMP Traps via SNMP v1, v2, and v3*</p> <p>Obtain alerts and notifications when changes occur in the G-TAP's link state, power sources and battery levels*</p>
<p>Power</p>	<p>Multiple power source options: AC, DC, PoE ***</p> <p>Flexibility to use in any site with different power needs and requirements</p>
	<p>Redundant and failsafe power:</p> <ul style="list-style-type: none"> • Optional dual external power feeds • Built-in battery backup <p>Continuous operation without network interruption during power loss events, including:</p> <ul style="list-style-type: none"> • Loss of a single power feed • Loss of all external power feeds
	<p>Optional Power Supply Tray (PST) for powering up to eight (8) rack mount trays, i.e. twenty-four (24) G-TAP A-TX/A-SF units</p> <p>Easy and compact external power provisioning for large installations</p>

Except for GTP-ATX21-C model

* Only available with G-TAP A Series 2

*** PoE is not available as a power source for G-TAP A Series 2

Product Specifications

G-TAP A-SF and A-SF2 Transceiver Details

Type	Operating Wavelength (nm)	Max Link Distance	Cable Type	Connector Type	Average Launch Power (dBm)	Receiver Sensitivity (dBm)	Comments
1Gb SFP	850 (SX)	200 - 550 m	Multimode	LC	-9.5	-17.0	Depends on fiber type
	1310 (LX)	10 km	Singlemode	LC	-9.5	-19.0	-
	1550 (ZX)	40 km	Singlemode	LC	-4.0	-21.0	Special order
	CAT-5 Copper (SFP Copper)	100 m	UTP CAT-5 or better	RJ45	N/A	N/A	-
10Gb SFP+	850 (SR)	300 m	Multimode	LC	-7.3	-11.1	-
	1310 (LR)	10 km	Singlemode	LC	-5.2 (OMA)	-12.6 (OMA)	-
	1550 (ER)	40 km	Singlemode	LC	-1.7	-11.3	Special order
	SFP+ Direct Attach (SFP+ Copper)	1m (30 AWG max) 5m (26 AWG max)	SFP+ Direct Attach Copper	SFP+	N/A	N/A	-
	CAT-6a Copper (SFP+ Copper)	100 m	UTP CAT-6a or better	RJ45	N/A	N/A	-

Physical Dimensions and Weight

Product	Height	Width	Depth	Weight
G-TAP A-TX	1.75in (4.44cm)	5.5in (13.97cm)	9.75in (24.76cm)	3.12lbs (1.41kg)
G-TAP A-SF	1.75in (4.44cm)	5.5in (13.97cm)	9.75in (24.76cm)	3.12lbs (1.41kg)
Power Supply Tray (PST)				
G-TAP A-TX2	1.75in (4.44cm)	8.75in (22.2cm)	10.25in (26.0cm)	8.64lbs (3.93kg)
G-TAP A-SF2	1.75in (4.44cm)	8.75in (22.2cm)	10.25in (26.0cm)	8.40lbs (3.82kg)

A-TX/SF Power Requirements

Power Type	Specifications
Alternating Current (AC)	100 to 240 V, 47 to 63 Hz, nominal 18 mA @ 120 V
Direct Current (DC)	-36 to -72 V, nominal 350 mA @ -48 V, reverse-polarity protected inputs
Power over Ethernet (PoE)	Type 1 (802.3af) – CAT3 or higher Type 2 (802.3at) – CAT5 or higher

Optional PST Power Requirements

Power Type	Specifications
Alternating Current (AC)	100 to 240 V, 47 to 63 Hz, max 4 A @ 100V, nominal 3.4 A @ 110 V and 337 W (1149 BTU/hr)
Direct Current (DC)	-40 to -72 V, max 10 A @ 40 V, nominal 6.4 A @ -48 V and 308 W (1050 BTU/hr)

A-TX2/SF2 Power Requirements

Power Type	Specifications
Alternating Current (AC)	100 to 240 V, 47 to 63 Hz, nominal 420 mA @ 120 V
Direct Current (DC)	13 V, nominal 4 A, 4-pin circular connector

Environmental Specifications

Attribute	Specifications
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 15,000ft (4.6km)

Standards and Protocols

Attribute	Specifications
Standards and Protocols	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, RFC 783 TFTP, RFC 791 IP, RFC 793 TCP, RFC 826 ARP, RFC 854 Telnet, RFC 768 UDP, RFC 792 ICMP, SNMP v1/v2c, RFC 2131 DHCP client, RFC 1492 TACACS+, supports IPv4 and IPv6

Regulatory and Safety Compliance

Attribute	Specifications
Safety	UL 60950-1; CSCAC 2212; EN 60950-1; IEC-60950-1, UL 62368-1; EN 62368-1; IEC 62368-1
RoHS	RoHS 6, EU Directive 2002/95/EC
Emissions	FCC Part 15, Class A; VCCI Class A; EN55022/CISPR-22 Class A; Australia/New Zealand AS/NZS CISPR-22 Class A; CE Mark EN 55022 Class A
Immunity	ETSI EN 300 386 V1.3.2, EN 61000-4-2, EN 61000-4-3, EN, 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-3-2

Warranty

Type	Description
Hardware	Gigamon 1-Year Hardware Limited Warranty included with purchase
Emissions	1-Year Software Limited Warranty included with purchase
Support	1-Year Standard Support included with purchase

Support and Services

Gigamon offers a range of support and maintenance services. For details regarding Gigamon Limited Warranty and its Product Support and Software Maintenance Programs, visit gigamon.com/support-and-services/overview-and-benefits.

About Gigamon

Gigamon offers a deep observability pipeline that harnesses actionable network-derived intelligence to amplify the power of observability tools. This powerful combination helps IT organizations to assure security and compliance governance, speed root-cause analysis of performance bottlenecks, and lower operational overhead associated with managing hybrid and multi-cloud IT infrastructures. The result: Modern enterprises realize the full transformational promise of the cloud. Gigamon serves more than 4,000 customers worldwide, including over 80 percent of Fortune 100 enterprises, nine of the ten largest mobile network providers, and hundreds of governments and educational organizations worldwide. To learn more, please visit gigamon.com.

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