

XtraTAP™ Modular Network TAP Platform

Modular Network TAPs for 10/100/1000M (1G) networks.



The XtraTAP™ Modular Network TAP platform is a scalable and flexible line of Network TAP modules. The platform is ideal for both IT and OT networks where multiple media types are present and speeds are 1G or lower. Network Engineers and Cybersecurity Engineers can mix and match from multiple TAP modules to fit any network architecture. Quickly TAP multiple network segments and send copies of network traffic to out-of-band monitoring and cybersecurity solutions. The backplane built into the XtraTAP™ chassis allows for sending traffic across the TAPs in the same row. Additionally, the backplane allows for aggregating and filtering network traffic and then routing the results to any of the monitoring ports of the TAPs in a single row. Dual, internal power supplies per chassis decrease risk of losing power and reduce the quantity of outlets needed when space is limited. This high density, modular TAP platform ensures access to traffic now and in the future.

FLEXIBLE

- Mix & Match TAP modules
- Media conversion
- TAPs are hot swappable
- Supports SNMP and Syslog

SCALABLE

- Add chassis and TAP modules as needed
- Adjust TAP modes as needed
- 2U chassis fits 12 TAPs!

ROBUST

- Leverage backplane connections for filtering, aggregation
- Layer 2, 3 and 4 Filtering (MAC, VLAN, IP, DSCP, TCP, UDP)
- MTBF is 150,000+ hours

SECURE

- Redundant power supplies
- Supports jumbo frames and passes physical errors
- TAA compliant
- **Country of Origin: USA**

Design a TAP solution in 4 easy steps.

STEP 1
Choose one (1) Chassis.

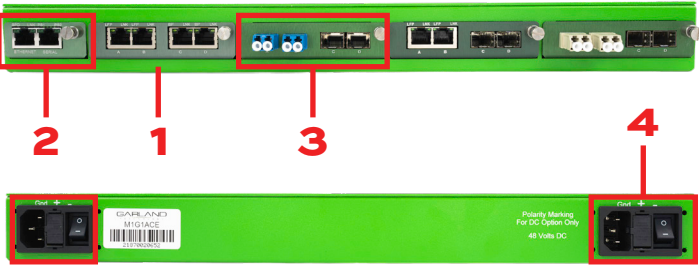
1U - holds up to (4) TAP modules

or

2U - holds up to (12) TAP modules

HARDWARE KEY

1. Durable, metal chassis. 2. Slot for management controller. 3. Slots for TAP modules. 4. Dual power supplies.



DIMENSIONS (WxHxD)

17.40" x 1.75" x 13.45"
441.96mm x 44.45mm x 341.63mm
Weight: 8.0 lbs

DIMENSIONS (WxHxD)

17.40" x 3.47" x 13.45"
441.96mm x 88.14mm x 341.63mm
Weight: 9.0 lbs

STEP 2
Choose one (1) Power Supply.

AC Power

or

DC Power

Two power supplies are included with each chassis.

Part #s for Chassis and Power Supply

| Model # | Chassis/TAPs* | Power Supplies | Voltage | Current (nominal) | Consumption (maximum) |
|----------------|-------------------|------------------|------------|-------------------|-----------------------|
| M1G1ACE | 1U; up to 4 TAPs | Dual Internal AC | 100-240VAC | 0.75A@115VAC | 86.25 Watts |
| M1G1DCE | 1U; up to 4 TAPs | Dual Internal DC | 36-60VDC | 1A@48VDC | 48 Watts |
| M1G2ACE | 2U; up to 12 TAPs | Dual Internal AC | 100-240VAC | 1A@115VAC | 115 Watts |
| M1G2DCE | 2U; up to 12 TAPs | Dual Internal DC | 36-60VDC | 2.8A@48VDC | 134.4 Watts |

Note: Both chassis are able to work with a single power input. Best practice is using the two (2) supplied power inputs connected to separate power sources to help safeguard the device against power failure.



STEP 3**Choose the TAP modules.**

Multiple modules are offered in the Platform. Modules are organized by Network Speed, Media Type, and TAP Mode. All modules fit inside the 1U and 2U chassis in any combination. Simply slide the module into an open slot until a click is heard.

**Part #s for TAP modules**

| Part # | Network Speed | Media | | TAP Mode |
|----------------------|------------------|---------------------------------------|------------------------|---|
| | | Network Ports | Monitor Ports | |
| M100CCB | 10/100M | 2 Copper-RJ45 | 2 Copper-RJ45 | Breakout |
| M1GCCB | 10/100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Breakout |
| CTAP-M1GCCREG | 10/100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Regeneration |
| M1GCSSP1x3 | RJ45 SFP - 1G | 1 Copper-RJ45 | 1 Copper-RJ45 2 SFP | Regeneration |
| M1GMCA | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 Copper-RJ45 | Aggregation, Breakout, Regeneration |
| M1GMSA | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 SFP | Aggregation, Breakout, Regeneration |
| M1GSCA | 1G | 2 LX Single-mode, passive LC-Fiber | 2 Copper-RJ45 | Aggregation, Breakout, Regeneration |
| M1GSSA | 1G | 2 LX Single-mode, passive LC-Fiber | 2 SFP | Aggregation, Breakout, Regeneration |
| M1GCCF | 10/100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Filtering, Breakout, Aggregation, Regeneration |
| M1GCSF | 10/100/1000M | 2 Copper-RJ45 | 2 SFP | Filtering, Breakout, Aggregation, Regeneration |
| M1GMCF | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 Copper-RJ45 | Filtering, Breakout, Aggregation, Regeneration |
| M1GMSF | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 SFP | Filtering, Breakout, Aggregation, Regeneration |
| M1GSCF | 1G | 2 LX Single-mode, passive LC-Fiber | 2 Copper-RJ45 | Filtering, Breakout, Aggregation, Regeneration |
| M1GSSF | 1G | 2 LX Single-mode, passive LC-Fiber | 2 SFP | Filtering, Breakout, Aggregation, Regeneration |
| M1GCCBP | 10/100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Bypass, Breakout, Aggregation, Regeneration |
| M1GCSBP | 10/100/1000M | 2 Copper-RJ45 | 2 SFP | Bypass, Breakout, Aggregation, Regeneration |
| M1GMCBP | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 Copper-RJ45 | Bypass, Breakout, Aggregation, Regeneration |
| M1GMSBP | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 SFP | Bypass, Breakout, Aggregation, Regeneration |
| M1GSCBP | 1G | 2 LX Single-mode, passive LC-Fiber | 2 Copper-RJ45 | Bypass, Breakout, Aggregation, Regeneration |
| M1GSSBP | 1G | 2 LX Single-mode, passive LC-Fiber | 2 SFP | Bypass, Breakout, Aggregation, Regeneration |



STEP 4**Choose one (1) Management option.****Management**

or

No Management

There is a RJ-45 Serial Management port and an Ethernet RJ-45 Management port that allows access to the Command Line Interface (CLI). This enables the chassis to be connected to the network for remote management via a web browser once the network configuration is set-up.

**M1GC**

| Part # | Product Description |
|-------------|--|
| M1GC | Chassis Controller: Serial & Ethernet Controller for M1G1xxE 1U Chassis & M1G2xxE 2U Chassis |
| M1GL | Tray with Power LED's for M1G1xxE and M1G2xxE Chassis (1) is required if you do not purchase a management card M1GC (M1GL is a blanking plate with (2) LED's showing if power supplies are ON or OFF.) |

Note: Users can export and import the Chassis and Module configurations. Chassis Controller stores all configurations and can be removed and added to another Chassis to help duplicate the configuration during set-up. If choosing to forego the Chassis Controller, one can be added at later date.

Accessories

Blanking Plates are available to close unused slot(s) in the 1U and 2U chassis. Any empty slots should be covered with the Blanking Plates to ensure proper internal airflow is maintained.

| Part # | Product Description |
|----------------|---|
| Tray-BG | Blanking Plate for M1GACx 1U Chassis |
| SFPSX_T | SFP 1000Base-SX Multi-Mode Fiber LC Connector, TAA Compliant |
| SFPTX_T | SFP 10/100/1000 Copper RJ-45 Connector, TAA Compliant |
| SFPLX_T | SFP 1000Base-LX Single Mode Fiber LC Connector, TAA Compliant |



Warranty

Garland Technology's standard, manufacturer's warranty covers the first twelve months of product ownership. Extended Return to Factory (RTF) and Premium Technical Support (PTS) warranty plans are available for purchase for supplemental and/or additional coverage options in annual increments.



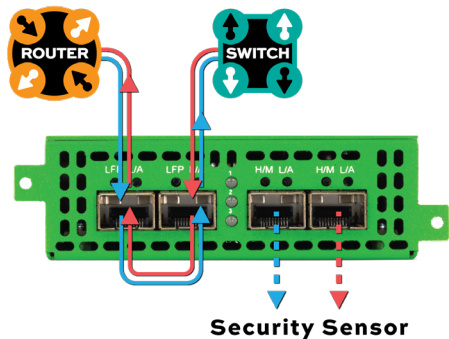
Design-IT Demo

Have a complimentary technical discussion about your network, goals, challenges, and upcoming projects with a Garland Technology Engineer. After the meeting, you will receive a professionally-designed solution diagram you can use to consider options with your colleagues.

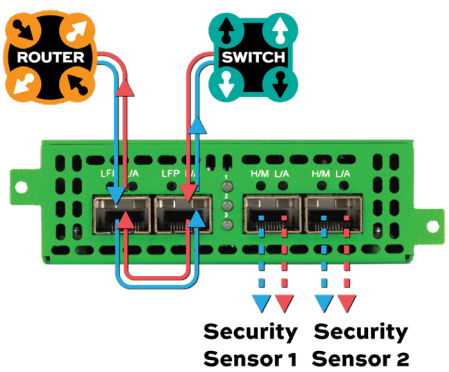


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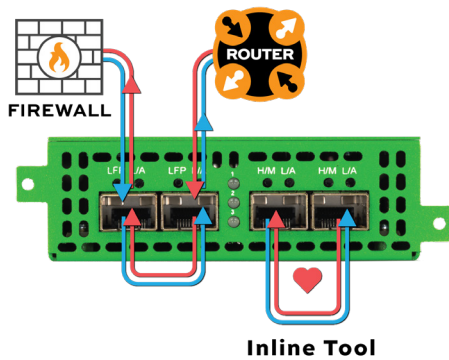
The XtraTAP Modular Network TAP platform is versatile and useful. The individual TAP modules work in one or more TAP modes individually. (See page 3 for the TAP mode capability by part number.) Also, the TAP modules can work in tandem by leveraging the backplane connections by row for filtering and aggregation functionality.



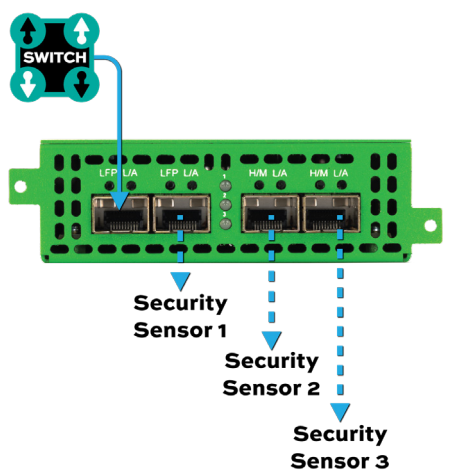
TAP “Breakout” Mode



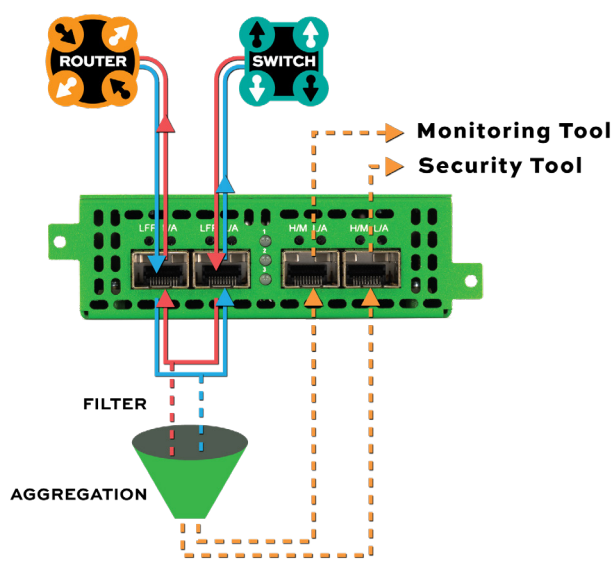
Aggregation Mode



Bypass Mode



Regeneration/SPAN Mode

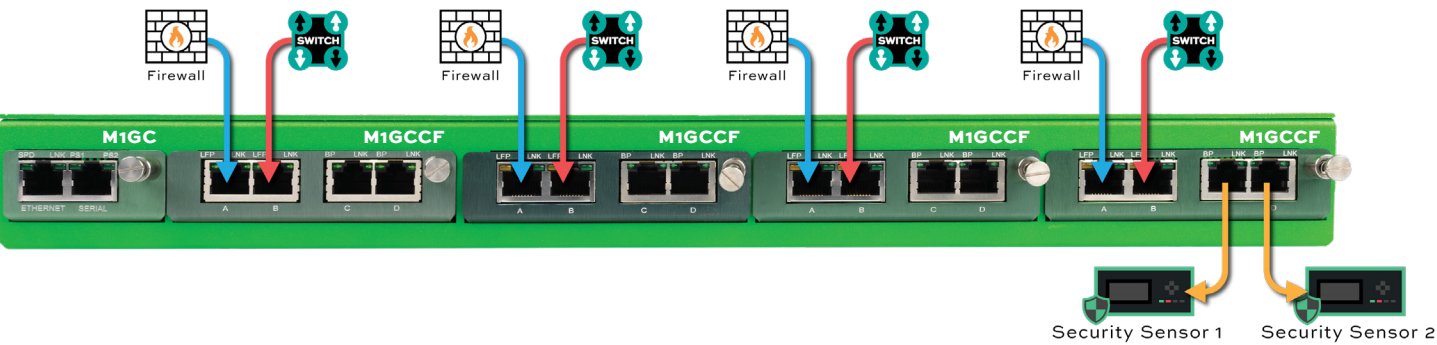


Filtering and Aggregation

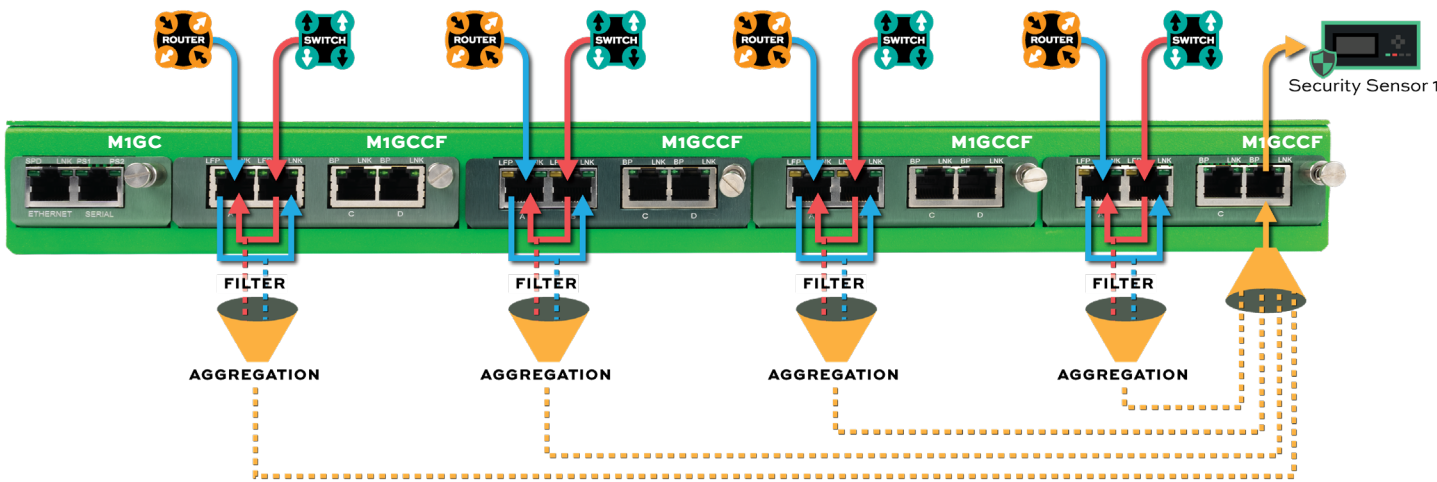


Deployment Examples

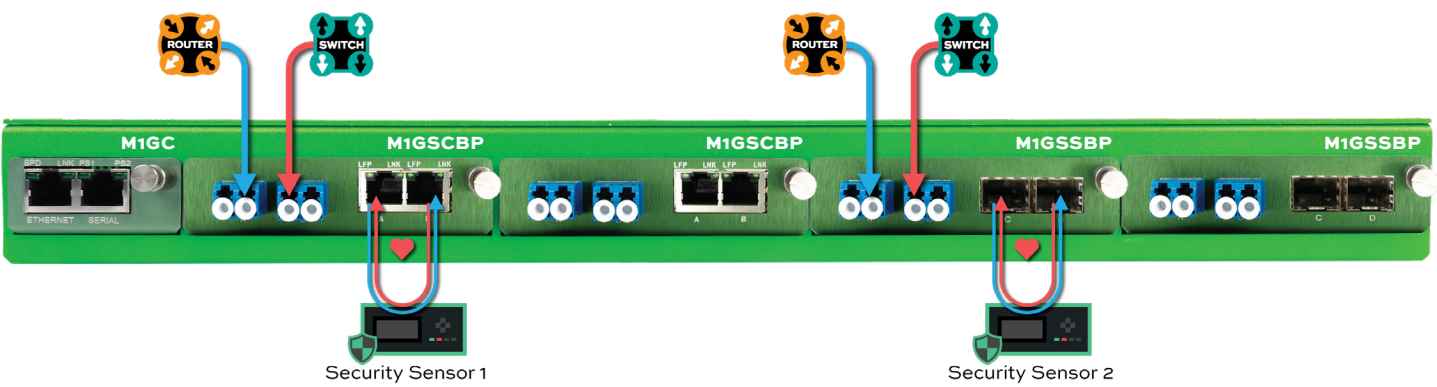
Aggregate on the backplane to 2 sensors



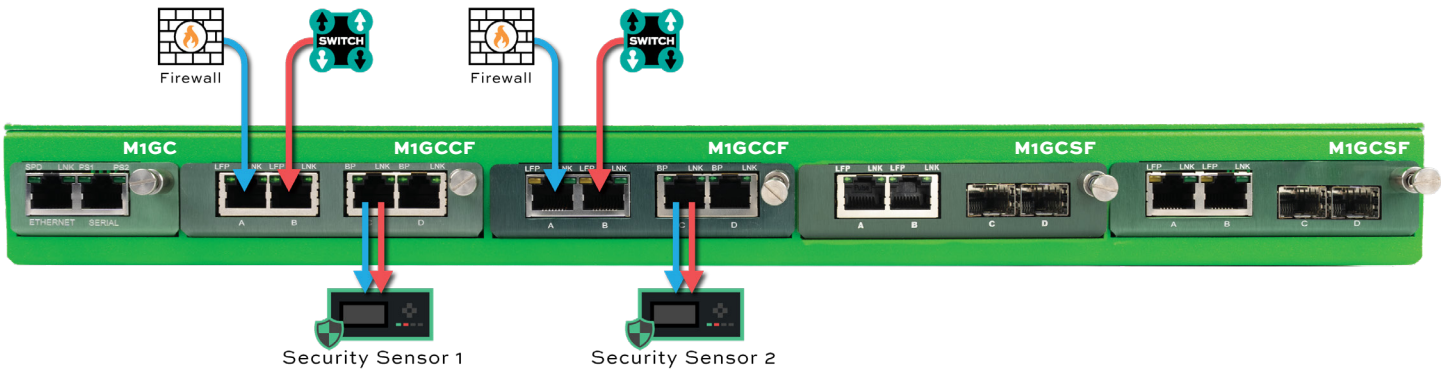
Filter and aggregate to 1 sensors



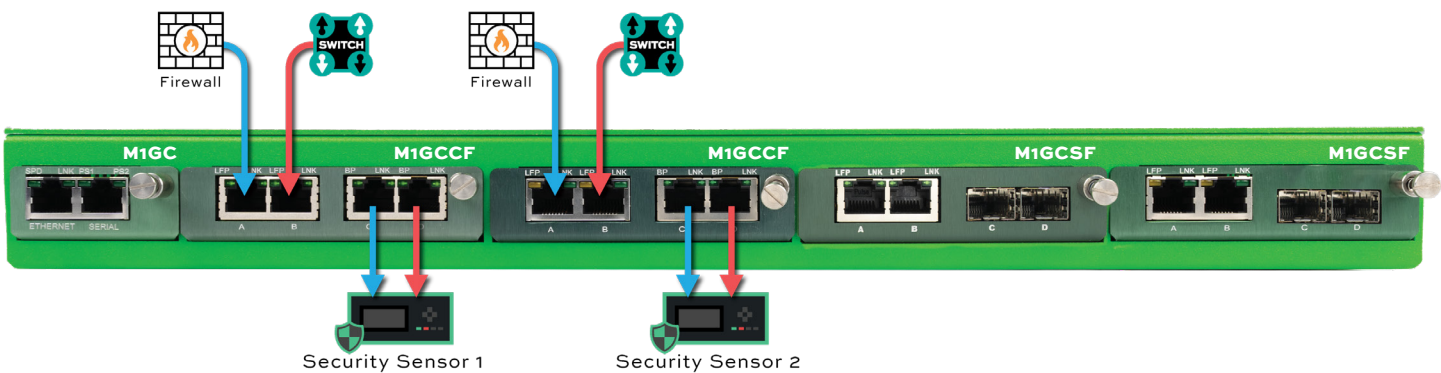
Bypass individual TAP modules deployed inline



Aggregation

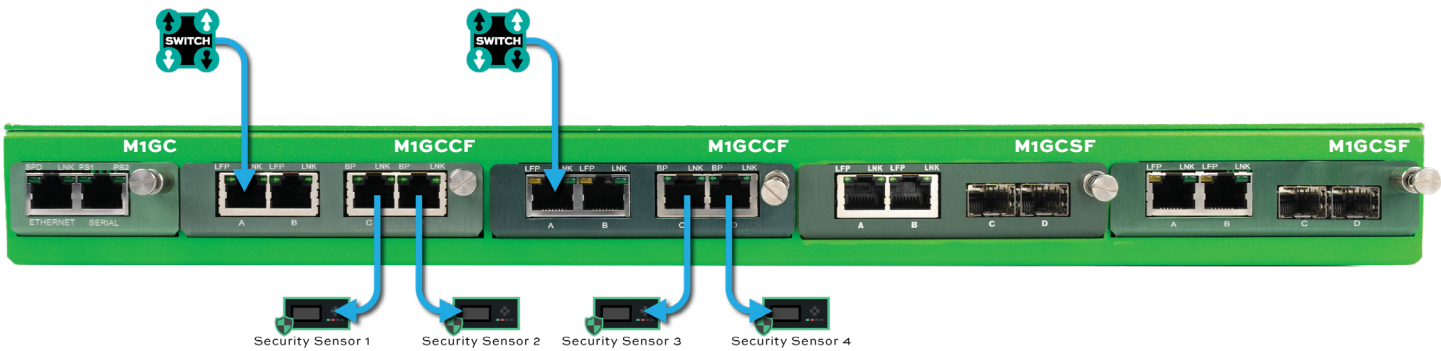


Breakout



Note: Breakout Mode requires the security sensor or tool to have (2) open physical interfaces to observe the mirrored network traffic.

Regeneration



Have Questions?

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