GARLAND TECHNOLOGY
See every bit, byte, and packet®

DATASHEET

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.

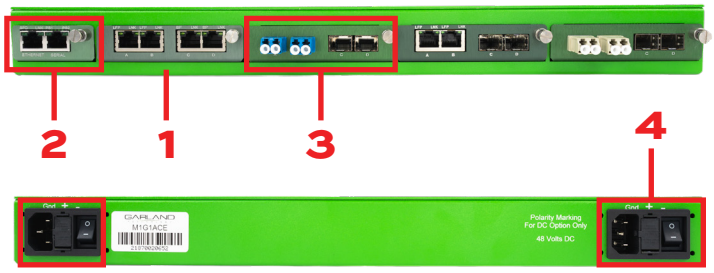
Have Questions?
sales@garlandtechnology.com | +1 716.242.8500 | GarlandTechnology.com

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.

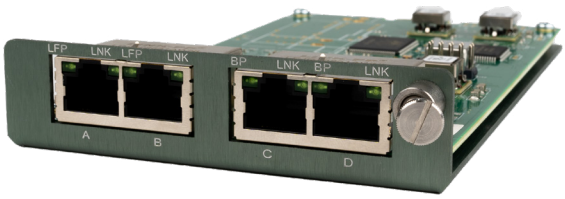
Part #s for Chassis and Power Supply

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	10/100/1000M	2 SX Multi-mode, passive LC-Fiber	2 Copper-RJ45 2SFP	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.

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

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

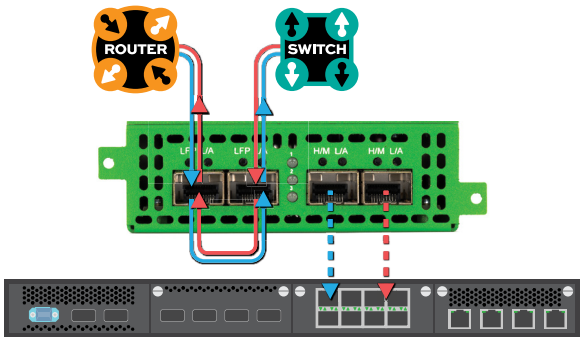
Warranty

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.

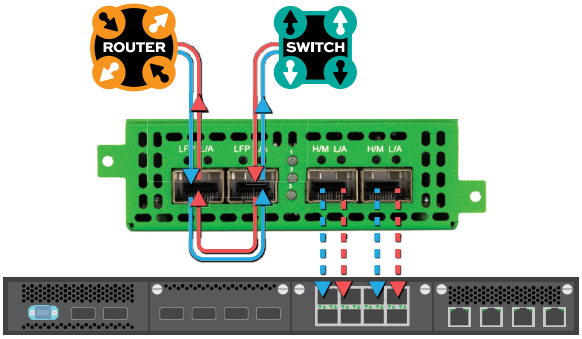
Design-IT Demo

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.

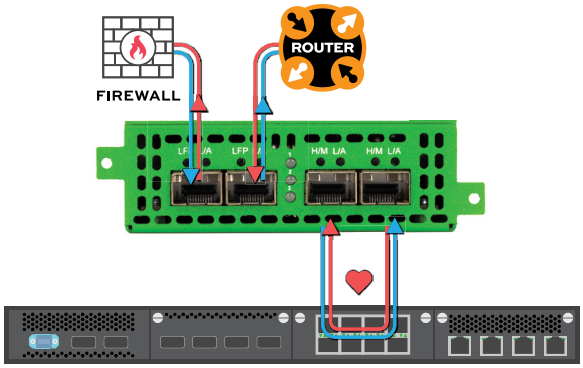
The XtraTAP Modular Network TAP platform is versatile and useful. The individual TAP modules work in one or more TAP modes individually. (See page 3 for the TAP mode capability by part number.) Also, the TAP modules can work in tandem by leveraging the backplane connections by row for filtering and aggregation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



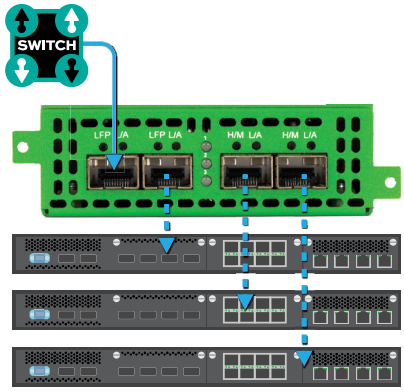
TAP "Breakout" Mode



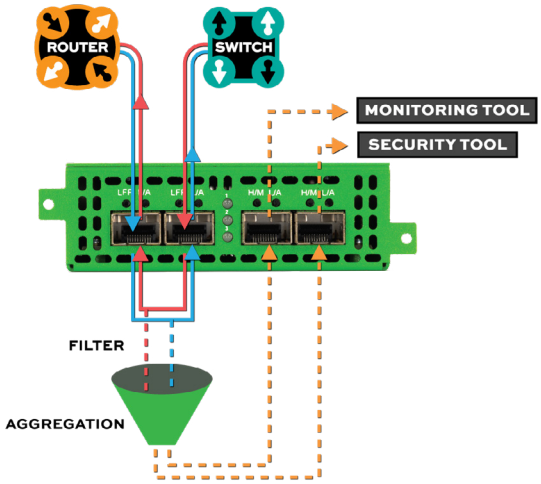
Aggregation Mode



Bypass Mode



Regeneration/SPAN Mode

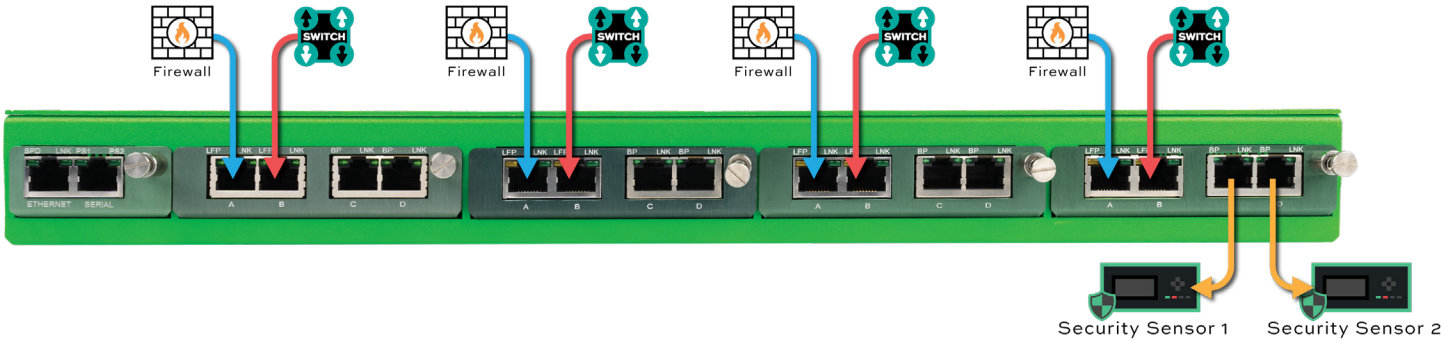


Filtering and Aggregation

Deployment Examples

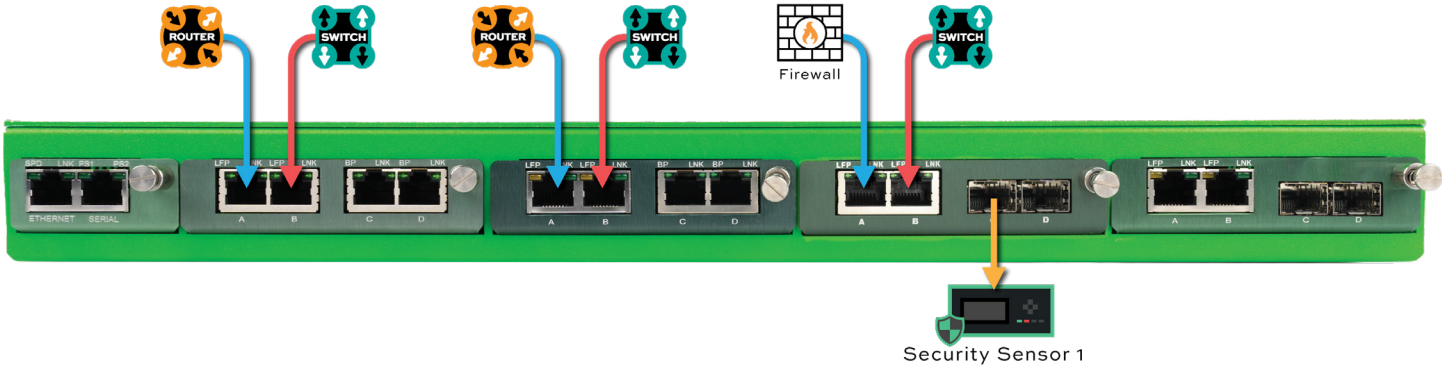
Aggregate on the backplane to 2 sensors

4 TAP modules are copper ports



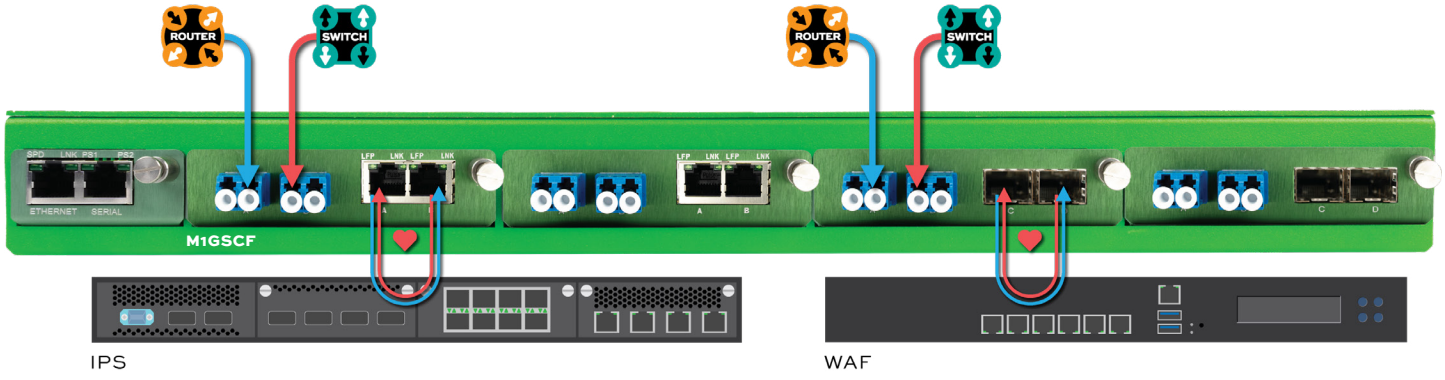
Aggregate on the backplane to 1 sensors

2 TAP modules are copper | 2 TAP modules are copper and SFP



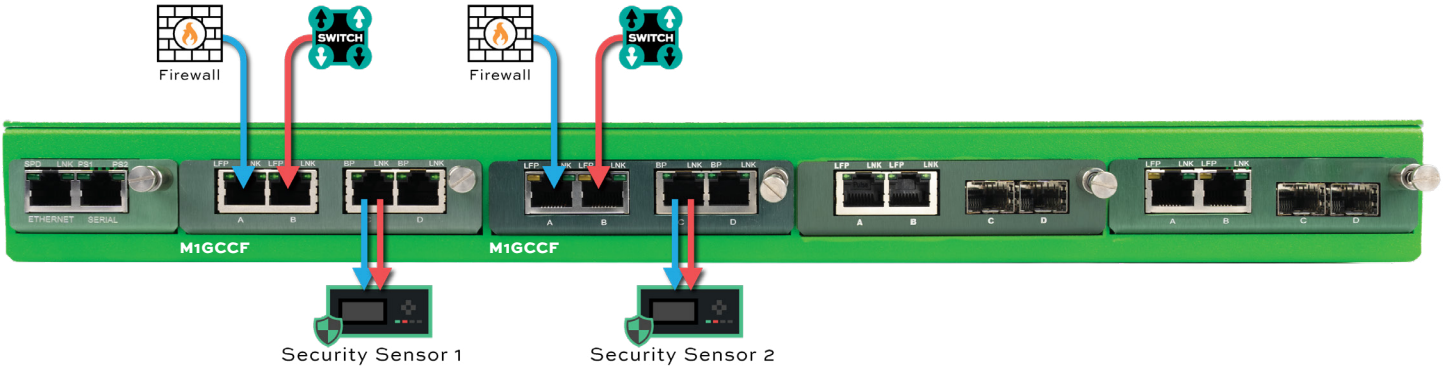
Bypass individual TAP modules deployed inline

2 TAP modules are copper | 2 TAP modules are copper and SFP



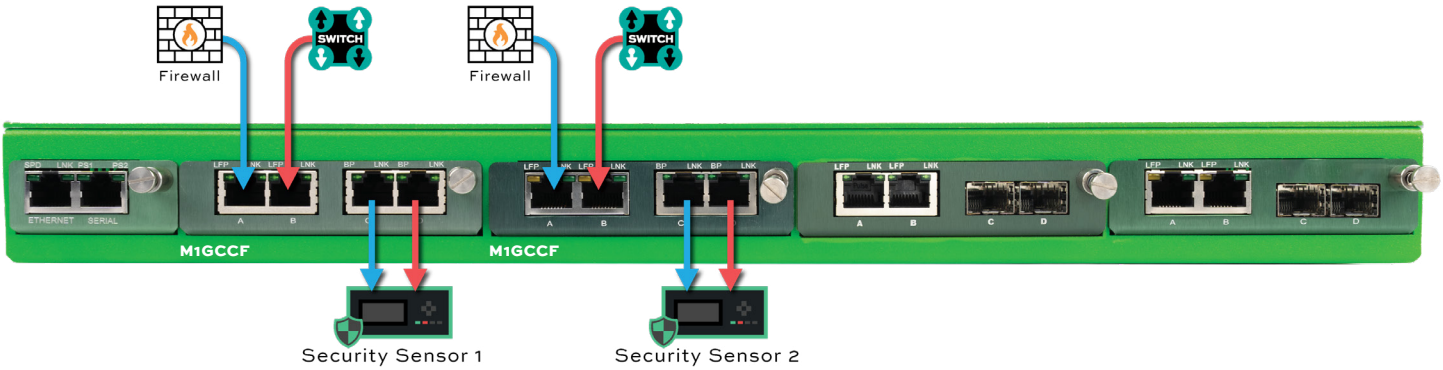
Aggregation

Individual TAP modules



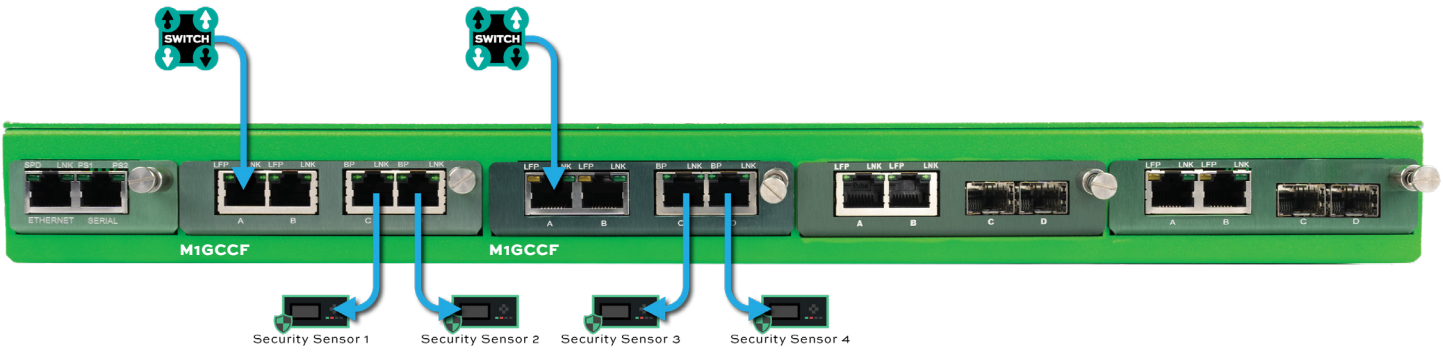
Breakout

Individual TAP modules



Regeneration

Individual TAP modules



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