GARLAND TECHNOLOGY
See every bit, byte, and packet®

DATA SHEET

EdgeSafe™: 1G Bypass Modular Network TAP

1G | 1U or 2U Chassis | Scalable design with media conversion

Network test access points (TAPs) are hardware tools that allow you to monitor and access your network. Garland's Inline Edge Security Bypass TAPs are typically used with inline security appliances such as next generation firewalls and intrusion prevention systems. All bypass TAPs are purpose-built hardware devices that let you see every bit, byte and packet.®

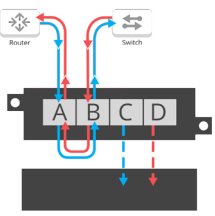
Bypass TAPs are used to connect a monitored network segment to an inline active appliance and monitor the appliance's health. If your appliance goes off line for any reason the Bypass TAP will automatically switch to 'bypass mode' keeping your network up while you to resolve the issue.

The EdgeSafe™: 1G Bypass Modular Network TAP supports bypass, breakout, aggregation and regeneration/SPAN modes.

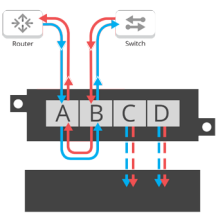
Key Features

- Management and Non-Management options:
  -Management Card: Ethernet with GUI - and - Serial with CLI controller
  -Non-management chassis available;
  (management card can be added at later date)
- Dual internal AC or DC power supplies
- TAP modules are hot swappable, fully configurable and interchangeable
- Accommodates GT legacy modular TAPs
- Network Failsafe recognizes power outages and automatically closes the relay circuitry in less than 8 milliseconds then reconnects the two network devices connected to Ports A & B.
- Supports jumbo frames and passes physical errors.
- 100% secure and invisible; no IP address, no MAC address; cannot be hacked
- Made, tested and certified in USA

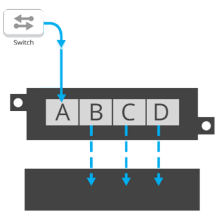
TAP Mode "Breakout"



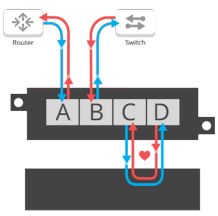
Aggregation Mode



Regeneration/SPAN Mode



Bypass Mode



APPLICATIONS:

- Remote Managment
- High density data center design.
- Network efficiency; only filter the packets required.
- Media Conversion for 1G networks

SOLUTIONS:

Aggregation / Regeneration

Port mapping between multiple TAPs and ports for aggregation / regeneration. Aggregate data to a single link or regenerate the traffic up to 4 links for 1U or up to 12 links for 2U.

Multiple analyzers and security tools see and share the same data, which reduces the number of ports required by the monitoring tools and security devices.

Media Conversion

Converting media allows you to use monitoring tools that you already have or use monitoring tools that cost less.

- Fiber (SX, LX, ZX) to copper (TX)
- Copper (TX) to fiber (SX, LX, ZX)
- Short range fiber (SX) to long range fiber (LX or ZX).

Competitive Edge

- Flexible design - accommodates any 1G network scenario
- Scalable design - add modules as needed
- Remote management with Ethernet GUI (optional)
- Highest density 1G integrated TAP packet broker on the market

TESTED CERTIFIED GUARANTEED

Have Questions?

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EdgeSafe™: 1G Bypass Modular Network TAP

1G | 1U or 2U Chassis | Scalable design with media conversion

Chassis options

Model #	Chassis/TAPs*	Power Supplies	Voltage	Current (nominal)	Consumption (maximum)	Dimensions (WxHxD)
M1G1ACE	1U; up to 4 TAPs	Dual Internal AC	100-240VAC	0.75A@115VAC	86.25 Watts	17.40" x 1.75" x 13.45" (441.96mm x 44.45mm x 341.63mm)
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	17.40" x 3.47" x 13.45" (441.96mm x 88.14mm x 341.63mm)
M1G2DCE	2U; up to 12 TAPs	Dual Internal DC	36-60VDC	2.8A@48VDC	134.4 Watts	
M1GC*	Management card: Ethernet/GUI - and - Serial/CLI for M1GxxxE					

*Blanking plates (Model #: Tray-BG) are used if management card is not required or if not all TAP modules are populated. Management card and additional GT TAP modules can be added to chassis.

Bypass TAP options

Model #	Network Speed	Media		Modes					Packet Injection Support	Packet Slicing
		Network	Monitor	Breakout	Aggregation	Regeneration/SPAN	Filtering	Bypass	(in Aggregation mode)	
M1GCCBP	100/1000M	2 Copper-RJ45	2 Copper-RJ45	Yes	Yes	Yes	No	Yes	Yes	Yes
M1GCSBP	100/1000M	2 Copper-RJ45	2 SFP	Yes	Yes	Yes	No	Yes	Yes	Yes
M1GMCBP	1G	2 SX Multi-mode, passive LC-Fiber	2 Copper-RJ45	Yes	Yes	Yes	No	Yes	Yes	Yes
M1GMSBP	1G	2 SX Multi-mode, passive LC-Fiber	2 SFP	Yes	Yes	Yes	No	Yes	Yes	Yes
M1GSCBP	1G	2 LX Single-mode, passive LC-Fiber	2 Copper-RJ45	Yes	Yes	Yes	No	Yes	Yes	Yes
M1GSSBP	1G	2 LX Single-mode, passive LC-Fiber	2 SFP	Yes	Yes	Yes	No	Yes	Yes	Yes

Breakout TAP options

Model #	Network Speed	Media		Modes					Features
		Network	Monitor	Breakout	Aggregation	Regeneration/SPAN	Filtering	Bypass	
M100CCB*	10/100M	2 Copper-RJ45, passive	2 Copper-RJ45	Yes	No	No	No	No	Passive
M1GCCB	10/100/1000M	2 Copper-RJ45	2 Copper-RJ45	Yes	No	No	No	No	Link Synch with Fail Safe

*Supports Power over Ethernet (POE)

Aggregation TAP options

Model #	Network Speed	Media		Modes					Packet Injection Support	Packet Slicing
		Network	Monitor	Breakout	Aggregation	Regeneration/SPAN	Filtering	Bypass		
M1GCCBP	100/1000M	2 Copper-RJ45	2 Copper-RJ45	Yes	Yes	Yes	No	Yes	Yes	Yes
M1GCSBP	100/1000M	2 Copper-RJ45	2 SFP	Yes	Yes	Yes	No	Yes	Yes	Yes
M1GMCA	1G	2 SX Multi-mode, passive LC-Fiber	2 Copper-RJ45	Yes	Yes	Yes	No	No	No	Yes
M1GMSA	1G	2 SX Multi-mode, passive LC-Fiber	2 SFP	Yes	Yes	Yes	No	No	No	Yes
M1GSCA	1G	2 LX Single-mode, passive LC-Fiber	2 Copper-RJ45	Yes	Yes	Yes	No	No	No	Yes
M1GSSA	1G	2 LX Single-mode, passive LC-Fiber	2 SFP	Yes	Yes	Yes	No	No	No	Yes

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