GARLAND TECHNOLOGY
See every bit, byte, and packet®

100G DATA SHEET

EdgeSafe™: 100G Bypass Modular Network TAP

100G | 1U Chassis | Failsafe | Inline Management, Protection, and Recovery

Network test access points (TAPs) are hardware tools that allow you to monitor and access your network. Garland's Inline Edge Security Bypass TAPs (active TAPs), also referred to as a 'bypass switch', not only provide complete network visibility, by passing all live wire data to inline security tools, but also provide failsafe and heartbeat technology to monitor the tool's health.

When architecting your inline security tools, such as firewalls and intrusion prevention systems (IPS), incorporating bypass technology is a fundamental best practice to avoid costly network downtime. A Bypass TAP provides the ability to manage your inline tool any time without having to take down the network or impact business availability for maintenance or upgrades.

Key Features

- TAP both 100G-SR4, and 100G-LR4 Links | Monitor ports 100G-SR4 or 100G-LR4
- Take your appliance offline without interrupting data traffic for sandboxing, updates, maintenance, and troubleshooting
- Guarantee 100% production network uptime with configurable appliance heartbeat and dual, field-replaceable power supplies
- Supports bypass, tap 'breakout,' aggregation and regeneration/SPAN modes
- Scalable modular design with media conversion
- Up to (2x) 100G TAPs in a 1U chassis
- Each TAP module is field replaceable
- Configurable heartbeat resolution
- Supports both local and remote management
- Support for packet injection, jumbo frames, and link failure propagation with TACACS, SNMP and Syslog

APPLICATIONS:

- Monitor 2 inline 100G appliances with failover protection.
- Provide inline lifecycle management for sandboxing, updates, maintenance, and troubleshooting.
- Media conversion for 100G

SOLUTIONS:

100G Bypass TAPs are ideal for:

- NGFW — Firewalls
- DLP — Data Leakage Prevention
- IPS — Intrusion Prevention System
- WAF — Web Application Firewall
- DDoS — Distributed Denial of Service Appliances
- SIEM — Security Information and Event Management (SIEM)

Competitive Edge

- Guarantee network uptime for 2 inline appliances with fail over
- Convert 100G fiber media
- Configurable Heartbeat Resolution
- Bypass TAP Invented by Jerry Dillard, CTO and Co-Founder
- Tested and Certified

TESTED CERTIFIED GUARANTEED

Have Questions?

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Chassis System	
Model #	**Description**
M100G1AC	100G-1U Chassis System: Supports up to 2 modular Bypass TAPs. Dual internal AC power supplies.
M100G1DC	100G-1U Chassis System: Supports up to 2 modular Bypass TAPs. Dual internal DC power supplies.

Model #	Network Speed	Bypass TAP Module	Media		Modes			
			Network	Monitor	Breakout	Aggregation	Regeneration/ SPAN	Bypass
M100GSR4BP	100G	SR Multi-mode Fiber	2 SR4 Multi-mode, MTP12	2 QSFP28 Cages	Yes	Yes	Yes	Yes
M100GLR4BP	100G	LR Single-mode Fiber	2 LR4 Single-mode LC-Fiber	2 QSFP28 Cages	Yes	Yes	Yes	Yes
M100GSR10BP	100G	SR Multi-mode Fiber	2 SR4 Multi-mode, MTP24	2 CFP4 Cages	Yes	Yes	Yes	Yes

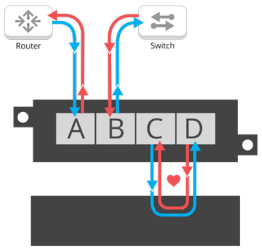
Available Transceivers		
Model #	**Description**	**Modules used with**
QSFP+28SR4	QSFP28 100Gigabit-SR4 Multi-mode fiber MTP/MPO12 connector	M100GSR4BP M100GLR4B
QSFP+28LR4	QSFP28 100Gigabit-LR4 Single-mode fiber LC connector	M100GSR4BP M100GLR4B
CFP4-100GSR10	CFP4 100Gigabit-SR10 Multi-mode fiber MTP/MPO24 connector	M100GSR10BP

Additional Chassis Specifications

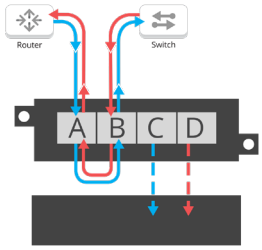
Power Consumption: 180w max
Operating Temp: 0C to 40C / +32F to +104F
Operating Humidity: 0%-90% non-condensing
Chassis Dimensions: 1.75"H x 17.25"W x 23"D (44.45 mm H x 439mm W x 586mm D)

Network Flow

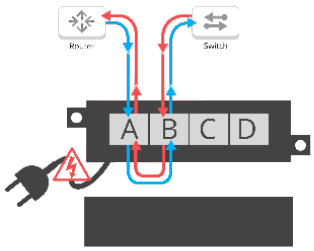
Bypass Mode: Active Inline



Bypass Mode: Out-of-band



Failsafe - Power loss



EdgeSafe Bypass TAPs continuously checks the responsiveness of the inline tool by sending "heartbeat" packets between it and the tool. If the tool is not responding, the TAP will "bypass" the inline tool, allowing network traffic to flow without interruption.

EdgeSafe Bypass TAPs continue to send traffic and heartbeat packets out-of-band to the inline tool even after the tool stops responding. As soon as the tool becomes operational, replaced or re-optimized, the EdgeSafe will re-route traffic back through the tool to ensure it is continuing to protect the network.

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