

# 1G/10G/40G/100G Passive Fiber TAPs

## Single-mode | Breakout Network TAPs



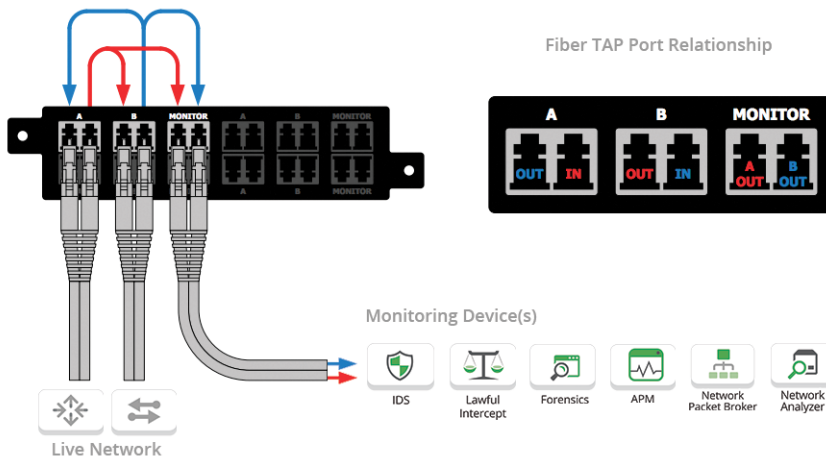
Network test access points (TAPs) are hardware tools that allow you to monitor your network. All fiber breakout TAPs are passive, purpose-built hardware devices that make a 100% copy of your network's data allowing your monitoring tools to see every bit, byte and packet.®

Passive TAPs are non-powered devices that will not cause the live network devices to lose link between one another if power is lost.

### Key Features

- 100% network visibility
- 100% secure and invisible; no IP address; no Mac address; cannot be hacked
- Passes physical layer errors
- Supports Breakout Mode
- Supports Jumbo frames
- 1U rack mount kit holds up to 4 modules, each module can have 1, 2, 3 or 4 TAPs
- Plug & Play easy installation, no configuration; no power source required
- Made, tested and certified in the USA

### Network Flow



### APPLICATIONS:

- Network & Application Monitoring
- Network & Application Analysis
- Network & Application Performance
- Data Center-Longhaul fiber environment

+ Breakout Mode is ideal when utilization is very high and packet loss is not an option.

### SOLUTIONS:

Passive optical TAPs are ideal for:

- IDS: Intrusion Detection Systems
- APM: Application Performance Monitoring
- Lawful Intercept
- Network Packet Broker: Packet Capture
- DPI: Deep Packet Inspection
- Network Analyzer
- Forensics

### TECHNOLOGY PARTNERS:

Garland Technology's Breakout TAPs have been approved for use by:



### Competitive Edge

- No upgrade needed. Unlike the competition, this handles your network today and tomorrow and will work in all of your applications.
- Supports long range and extended range single-mode environments.
- Tested and Certified



### Have Questions?

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# 1G/10G/40G/100G Passive Fiber TAPs

Modular | Single-mode | Breakout Network TAPs

Model #	Network Speed	Ports	# of TAPs	Split Ratio*	Wavelengths	Media	Connector/Mode
OS1501	Up to 100G		1	50/50	1310/1550nm	Fiber-OS1	Fiber-LC Single-Mode Fiber
OS1701	Up to 100G		1	70/30	1310/1550nm	Fiber-OS1	Fiber-LC Single-Mode Fiber
OS2501	Up to 100G		1	50/50	1310/1550nm	Fiber-OS2	Fiber-LC Single-Mode Fiber
OS2701	Up to 100G		1	70/30	1310/1550nm	Fiber-OS2	Fiber-LC Single-Mode Fiber
OS1502	Up to 100G		2	50/50	1310/1550nm	Fiber-OS1	Fiber-LC Single-Mode Fiber
OS1702	Up to 100G		2	70/30	1310/1550nm	Fiber-OS1	Fiber-LC Single-Mode Fiber
OS2502	Up to 100G		2	50/50	1310/1550nm	Fiber-OS2	Fiber-LC Single-Mode Fiber
OS2702	Up to 100G		2	70/30	1310/1550nm	Fiber-OS2	Fiber-LC Single-Mode Fiber
OS1503	Up to 100G		3	50/50	1310/1550nm	Fiber-OS1	Fiber-LC Single-Mode Fiber
OS1703	Up to 100G		3	70/30	1310/1550nm	Fiber-OS1	Fiber-LC Single-Mode Fiber
OS2503	Up to 100G		3	50/50	1310/1550nm	Fiber-OS2	Fiber-LC Single-Mode Fiber
OS2703	Up to 100G		3	70/30	1310/1550nm	Fiber-OS2	Fiber-LC Single-Mode Fiber
OS1504	Up to 100G		4	50/50	1310/1550nm	Fiber-OS1	Fiber-LC Single-Mode Fiber
OS1704	Up to 100G		4	70/30	1310/1550nm	Fiber-OS1	Fiber-LC Single-Mode Fiber
OS2504	Up to 100G		4	50/50	1310/1550nm	Fiber-OS2	Fiber-LC Single-Mode Fiber
OS2704	Up to 100G		4	70/30	1310/1550nm	Fiber-OS2	Fiber-LC Single-Mode Fiber
RMP-1U	1U Rack Mount Kit - Hold up to 4 Modules, each Module can have 1, 2, 3 or 4 TAPs						

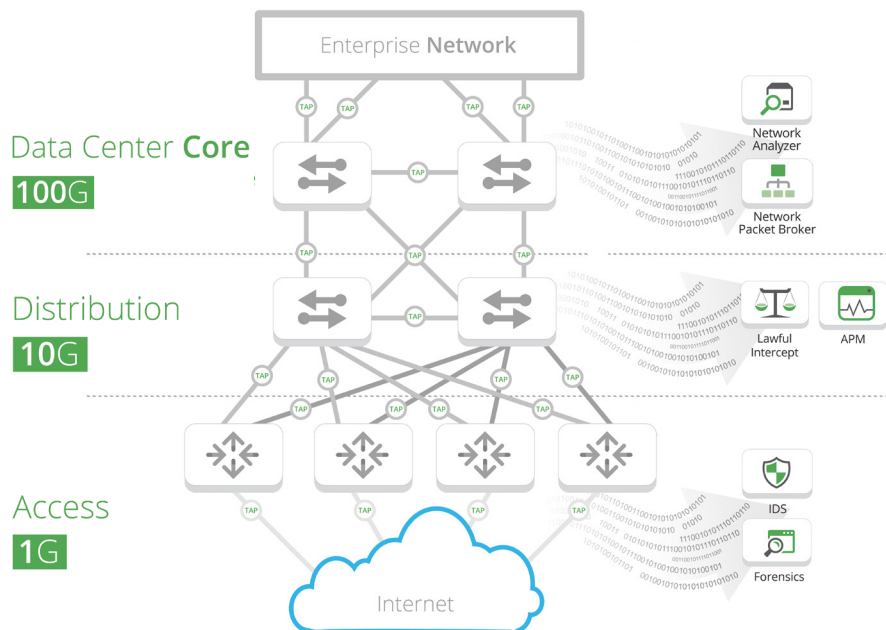
## Additional Specifications

**Single mode Fiber Type:**  
Corning 9/125 micron  
**Directivity:**  
≥50dB  
**Temperature:**  
-40 to +85C  
**Packaging:** Stainless steel tube, 3.05mm (dia) x 55mm (len)

**Additional Dimensions:**  
(HxWxD): 1.72" x 3.9" x 6.8" (43.69mm x 99.06mm x 172.72mm)  
**Weight:**  
1.45 lbs (0.66 kg)  
**Ambient Temperature:**  
0C to +40C / +32F to +104F  
**Storage Temperature:**  
-20C to +70C / -4F to +158F  
**Humidity:**  
90% non-condensing  
\*There is no power needed for these TAPs

\* Custom split ratios are available in 60/40, 80/20 or 90/10, please inquire.

## Use Case



## Optical Fiber Insertion Loss for OS1, OS2 with 1310/1550nm

Splitter: Single-Mode (OS1, OS2) with LC Connector*		
Split Ratio	Network Port	Monitor Port
50/50	3.6 dB	3.6 dB
70/30	1.9 dB	5.8 dB
Splitter plus loss with one mated pair**		
Split Ratio	Network Port	Monitor Port
50/50	3.9 dB	3.9 dB
70/30	2.2 dB	6.1 dB

\* Measured loss through splitter only \*\* Measured loss through splitter; plus one mated pair (two fibers terminated and connected together with a fiber optic coupler). For methodology read: Tech Notes on [Measuring Budget Light Loss](#).



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