

Join The Conversation



# GARLAND

T E C H N O L O G Y

See every bit, byte, and packet<sup>®</sup>

[Garlandtechnology.com](http://Garlandtechnology.com)

## 2015 Product Catalog

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## *Chris Bihary, CEO and Co-Founder*

Chris has been connecting companies and their data for over 15 years. He began helping companies to access their networks in the early 2000's and his designs are still working in well over 500+ worldwide firms. He has an obsession for figuring out the simplest solution for the most difficult network access problems and has working relationships with Cisco, ForeScout, HP AllianceOne, Imperva, Palo Alto Networks, Riverbed and Sourcefire now a part of Cisco. Chris and these partners have collaborated to design networks for mutual clients. Chris is often asked why he is in the business of "Test Access Point" (TAPS) technology; his answer is always the same. "Businesses need simple solutions to complicated network access problems. I have a knowledge base that can help them connect to their network. The right technology for my clients is just a quick sketch away - I have an obsession for "connecting" clients with the right design no matter what application they have chosen so they can focus on their business, not their network."

## *Jerry Dillard, CTO and Co-Founder*

Jerry has been developing engineering solutions for over 20 years. He is a pure engineer. Jerry designs products that solve network access problems. He designs Garland Technology products in a way that they do not introduce additional problems into your network. His career started after he graduated from the University of Alabama. His solid background in network engineering helped General Dynamics and Lockheed Martin Tactical Aircraft Systems drive network systems. Jerry went on to start a company that not only sold directly to end clients but also provided products in the network area as an OEM. Jerry's products were so well respected that other companies put their name on his products. As the CTO of Garland Technology he is a driving force in making Garland Technology the 100 Percent company – "100% in customer satisfaction, 100% in employee satisfaction, 100% in product reliability and network visibility. When you place a Garland Technology product in your network we are 100% sure you will be happy with your decision."

## *Why We Do What We Do*

Garland Technology is all about connections – connecting your network to your appliance, connecting your data to your IT team, and reconnecting you to your core business. Choose from a full line of access products: network TAPS that support aggregation, regeneration, bypass, and breakout modes, packet brokering products, as well as cables and pluggables. Avoid introducing additional software, points of failure, and bulk into your network with Garland products; these hardware solutions let you see every bit, byte, and packet.

Not an expert in TAP technology and network connectivity? That's all right – Garland's design and education-based approach will take you from square one to network design specialist. Garland will also work with your vendor of choice in the solution areas covering Network Analyzers, Intrusion Detection, Intrusion Prevention Systems, Bandwidth Management, Computer Forensics, Data Capture, Content Filtering, Data Leakage Prevention, and Lawful Interception. Your Garland Technology network designer will work directly with you and your team to meet your needs with these vendors and provide you with the best solution.



# Portable Network TAPs

## Garland Portable Solutions

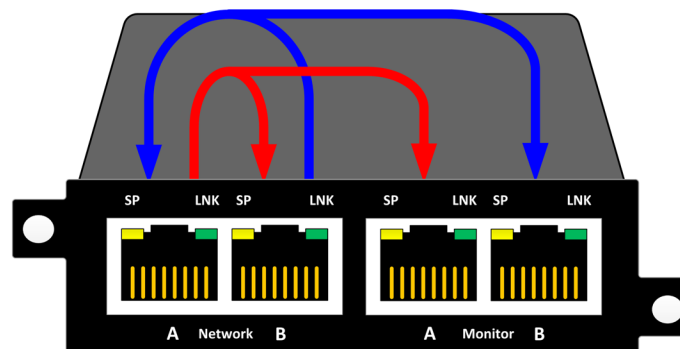
Portable TAPs are a great solution for monitoring your computer networks. The portable line is ideal for remote sites and is easy to install into any network segment. Let Garland provide you the access you need for your network monitoring tools, security devices, and analyzers.

### Key Benefits to Portable TAPs

- Copper TAP to Copper Monitoring Ports
- Supports Breakout TAP Mode
- Passes physical layer errors
- Easy to configure with switches on back!
- Small and Portable
- Rack shelf supports up to 4 TAPs/1U
- P1GCCB only: Link Speed Synch
- Supports Jumbo Frames

## Product Details

Model #	Media		Modes				Network Speed
	Network	Monitor	Breakout	Aggregation	Regenerating/ SPAN	Bypass	
PT100	Copper	Copper	✓				10/100M
P100CCA	Copper	Copper	✓	✓			10/100M
P1GCCB	Copper	Copper	✓				10/100/1000M



Capture full duplex traffic with zero- and low-power copper TAPs. Portable TAPs are perfect for performance monitoring and troubleshooting.





**10/100 Megabit**  
**10/100/1000 Megabit**  
**1 Gigabit**  
**Copper**

**PT100**



Portable 10/100M Passive TAP  
Single Power Supply  
Passes Datalink Layer Errors

**P100CCA**



Portable 100M Aggregation Passive TAP  
2 Aggregation 1Gigabit Ports  
Single External Power Supply  
Passes Datalink Errors

**P1GCCB**



Portable 10/100/1000M Breakout TAP  
2 Copper RJ-45 Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Link Speed Synchronization  
Passes data-link layer errors



# Portable Network TAPs

## Garland Technology Portable TAP Solutions

Portable TAPs are a great solution for monitoring your computer networks. The portable line is ideal for remote sites and is easy to install into any network segment. Let Garland provide you the access you need for your network monitoring tools, security devices, and analyzers.

### Key Benefits

- Copper or Fiber TAP ports
- Copper, Fiber, or SFP monitoring ports
- Support Breakout, Aggregation, Regenerating, Span, and Bypass modes
- Support Jumbo Frames
- Packet Injection in select models
- Small and Portable

## Product Details

Model #	Media		Modes				Packet Injection Support	Network Speed
	Network	Monitor	Breakout	Aggregation	Regeneration/SPAN	Bypass		
P1GCCA	Copper	Copper	✓	✓	✓		✓	100/1000M
P1GCSA	Copper	SFP	✓	✓	✓		✓	100/1000M
P1GMCA	MM Fiber	Copper	✓	✓	✓			1000M
P1GMSA	MM Fiber	SFP	✓	✓	✓			1000M
P1GSCA	SM Fiber	Copper	✓	✓	✓			1000M
P1GSSA	SM Fiber	SFP	✓	✓	✓			1000M
P1GCCBP	Copper	Copper	✓	✓	✓	✓	✓	100/1000M
P1GCSBP	Copper	SFP	✓	✓	✓	✓	✓	100/1000M
P1GMCBP	MM Fiber	Copper	✓	✓	✓	✓	✓	1000M
P1GMSBP	MM Fiber	SFP	✓	✓	✓	✓	✓	1000M
P1GSCBP	SM Fiber	Copper	✓	✓	✓	✓	✓	1000M
P1GSSBP	SM Fiber	SFP	✓	✓	✓	✓	✓	1000M



# 10/100/1000 Megabit

## 1 Gigabit

### Copper

#### P1GCCA



Portable 100/1000M Aggregation TAP  
2 Copper RJ-45 Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

#### P1GCSA



Portable 1000M Aggregation TAP  
2 Copper RJ-45 Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

#### P1GMCA



Portable 1000M Aggregation TAP  
2 Multi-Mode Passive Fiber LC Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

#### P1GMSA



Portable 1000M Aggregation TAP  
2 Multi-Mode Passive Fiber LC Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

#### P1GSCA



Portable 1000M Aggregation TAP  
2 Single-Mode Passive Fiber LC Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

#### P1GSSA



Portable 1000M Aggregation TAP  
2 Single-Mode Passive Fiber LC Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

#### P1GCCBP



Portable 100/1000M Aggregation TAP  
2 Copper RJ-45 Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

#### P1GCSBP



Portable 100/1000M Aggregation TAP  
2 Copper RJ-45 Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

#### P1GMCBP



Portable 1000M Aggregation TAP  
2 Multi-Mode Passive Fiber Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

#### P1GMSBP



Portable 1000M Aggregation TAP  
2 Multi-Mode Passive Fiber Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

#### P1GSCBP



Portable 1000M Aggregation TAP  
2 Single-Mode Passive Fiber Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

#### P1GSSBP



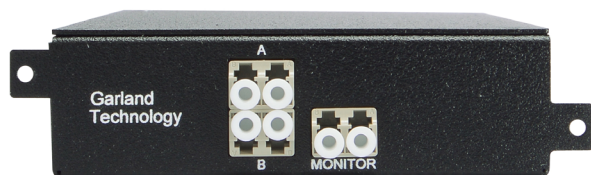
Portable 1000M Aggregation TAP  
2 Single-Mode Passive Fiber Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support



# Passive Fiber Single TAPs

10/100/1000 Megabit,  
1 Gigabit, 10 Gigabit,  
40 Gigabit, 100 Gigabit

## Single- and Multi-Mode Fiber TAPs



Our line of passive fiber TAPs offers enterprises and data centers of all sizes complete access to their network data.

Capture all of your traffic to use in conjunction with monitoring tools for IPS, IDS, lawful intercept, data capture, data leakage prevention, and more!

**All OMxxxx TAP models support only Breakout mode. See our portable and modular lines to learn more about our other modes and features!**

Model #	Mode	Wavelengths	Ratio
OM1501	Multi-Mode 62.5 micron OM1	Dual 850/1300nm	50/50
OM1701	Multi-Mode 62.5 micron OM1	Dual 850/1300nm	70/30
OM3501	Multi-Mode 50 micron OM3	Dual 850/1300nm	50/50
OM3701	Multi-Mode 50 micron OM3	Dual 850/1300nm	70/30
OS1501	Single-Mode 9 micron OS1	Dual 1310/1550nm	50/50
OS1701	Single-Mode 9 micron OS1	Dual 1310/1550nm	70/30

Model #	Description
RMP - 1U	1U Rackmount Plate - Holds up to 4 TAPs

# Passive Fiber Dual TAPs

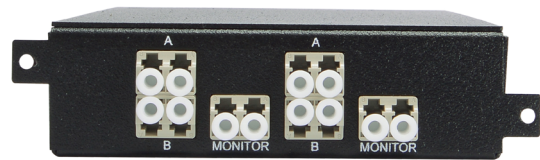


10/100/1000 Megabit,  
1 Gigabit, 10 Gigabit,  
40 Gigabit, 100 Gigabit

## Customizable Access Solutions

All of our TAPs split ratios are available in 50:50 and 70:30, but are also customizable to fit your needs.  
Other common ratios:

- 60:40
- 80:20
- 90:10



**All OMxxxx TAP models support only Breakout mode. See our portable and modular lines to learn more about our other modes and features!**

Model #	Mode	Wavelengths	Ratio
OM1502	Multi-Mode 62.5 micron OM1	Dual 850/1300nm	50/50
OM1702	Multi-Mode 62.5 micron OM1	Dual 850/1300nm	70/30
OM3502	Multi-Mode 50 micron OM3	Dual 850/1300nm	50/50
OM3702	Multi-Mode 50 micron OM3	Dual 850/1300nm	70/30
OS1502	Single-Mode 9 micron OS1	Dual 1310/1550nm	50/50
OS1702	Single-Mode 9 micron OS1	Dual 1310/1550nm	70/30

Model #	Description
RMP - 1U	1U Rackmount Plate - Holds up to 4 TAPs



# Passive Fiber Quad TAPs

10/100/1000 Megabit,  
1 Gigabit, 10 Gigabit,  
40 Gigabit, 100 Gigabit



**All OMxxxx TAP models support only Breakout mode. See our portable and modular lines to learn more about our other modes and features!**

Model #		Mode	Wavelengths	Ratio
OM1504		Multi-Mode 62.5 micron OM1	Quad 850/1300nm	50/50
OM1704		Multi-Mode 62.5 micron OM1	Quad 850/1300nm	70/30
OM3504		Multi-Mode 50 micron OM3	Quad 850/1300nm	50/50
OM3704		Multi-Mode 50 micron OM3	Quad 850/1300nm	70/30
OS1504		Single-Mode 9 micron OS1	Quad 1310/1550nm	50/50
OS1704		Single-Mode 9 micron OS1	Quad 1310/1550nm	70/30

Model #	Description
RMP - 1U	1U Rackmount Plate - Holds up to 4 TAPs



# High Density Fiber TAPs



10/100/1000 Megabit,  
1 Gigabit, 10 Gigabit,  
40 Gigabit, 100 Gigabit

Utilize up to 28 or 56 TAPs in a 1U rackspace - perfect for high density data centers.



**All OMxxxx TAP models support only Breakout mode. See our portable and modular lines to learn more about our other modes and features!**

Model #	Mode	Wavelengths	Ratio
OM15028	Multi-Mode 62.5 micron OM1	850/1300 nm	50/50
OM17028	Multi-Mode 62.5 micron OM1	850/1300 nm	70/30
OM35028	Multi-Mode 50 micron OM3	850/1300 nm	50/50
OM37028	Multi-Mode 50 micron OM3	850/1300 nm	70/30
OS15028	Single-Mode 9 micron OS1	1310/1550 nm	50/50
OS17028	Single-Mode 9 micron OS1	1310/1550 nm	70/30
OM15056	Multi-Mode 62.5 micron OM1	850/1300 nm	50/50
OM17056	Multi-Mode 62.5 micron OM1	850/1300 nm	70/30
OM35056	Multi-Mode 50 micron OM3	850/1300 nm	50/50
OM37056	Multi-Mode 50 micron OM3	850/1300 nm	70/30
OS15056	Single-Mode 9 micron OS1	1310/1550 nm	50/50
OS17056	Single-Mode 9 micron OS1	1310/1550 nm	70/30



# Modular Chassis with Management

10/100/1000M  
1Gigabit  
Copper and Fiber

## Visibility solutions that put you in control

Looking for a customizable and configurable answer to your access problems? Combining our modular TAPs (M1GCCB, M1GxxA and M1GxxBP) with a Modular Chassis with Management gives you the room for growth and control you need in a modern data center.

Simply plug your computer into the management port and issue detailed commands to your TAPs.

### Key Benefits

- Support all 1G interfaces
- Fiber TAPs are passive
- 1U and 2U chassis support 4 or 12 TAPs
- High Density design
- Passes Physical Layer Errors
- Can run 100% Utilization with Heartbeat

### Technology

- Supports Jumbo Frames
- Control everything from your computer

## Product Details

Model #	Number of TAPs	Product Description	Power Supply
M1G1ACS	4	1U Modular Chassis with Serial Mangement Ports, Dual Internal AC Power Supplies; Supports 4 TAP modules	Dual AC
M1G1DCS	4	1U Modular Chassis with Serial Mangement Ports, Dual Internal DC -48vdc Power Supplies; Supports 4 TAP modules	Dual DC -48vdc
M1G2ACS	12	2U Modular Chassis with Serial Mangement Ports, Dual Internal AC Power Supplies; Supports 12 TAP modules	Dual AC
M1G2DCS	12	2U Modular Chassis with Serial Mangement Ports, Dual Internal DC -48vdc Power Supplies; Supports 12 TAP modules	Dual DC -48vdc



M1G2xxx Chassis housing  
2 copper TAP modules



# Modular Chassis without Management



10/100/1000M

1Gigabit

Copper and Fiber

Ready for you -  
right out of the box

Need a fast and reliable access solution? These Chassis, used with our modular TAPs (M1GCCB, M1GxxA and M1GxxBP), provide your organization the versatility of modular TAPs and the ease of plug-n-play no configuration solutions.

Once you've plugged your TAPs into the chassis, let them go to work - without any need for external management.

## Key Benefits

- Support all 1G interfaces
- Fiber TAPs are passive
- 1U and 2U chassis support 4 or 12 TAPs
- High Density design
- Passes Physical Layer Errors
- Can run 100% Utilization with Heartbeat

## Technology

- Supports Jumbo Frames

## Product Details

Model #	Number of TAPs	Product Description	Power Supply
M1G1AC	4	1U Modular Chassis Dual Internal AC Power Supplies Supports 4 TAP modules	Dual AC
M1G1DC	4	1U Modular Chassis with Dual Internal DC -48vdc Power Supplies Supports 4 TAP modules	Dual DC -48vdc
M1G2AC	12	2U Modular Chassis with Dual Internal AC Power Supplies Supports 12 TAP modules	Dual AC
M1G2DC	12	2U Modular Chassis with Dual Internal DC -48vdc Power Supplies Supports 12 TAP modules	Dual DC -48vdc



M1G1xxx Chassis with  
Copper TAP modules



# Modular Aggregation/Regeneration TAPs

100/1000 Megabit  
1Gigabit  
Copper and Fiber

## Garland Modular TAP Solutions

Modular TAPs are a great solution for monitoring your computer networks. The modular line is ideal for data centers and growing networks. With modular TAPs, you only purchase the products you need - with the option of adding more as your needs change.

Be sure to see our chassis for 1U and 2U, high-density options for the modules you need.

### Key Benefits to Modular TAPs

- Configurable TAPs support Aggregation, Regeneration, and Breakout modes
- Packet Slicing Supported in Aggregation Mode
- Fiber TAPs are passive
- Modular design supports 1U and 2U chassis
- High Density design
- Passes Physical Layer Errors
- Can run 100% Utilization with Heartbeat Technology
- Supports Jumbo Frames

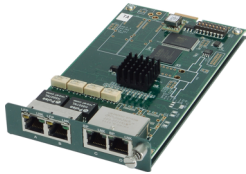
## Product Details

Model #	Media		Modes				Packet Injection Support	Network Speed
	Network	Monitor	Breakout	Aggregation	Regeneration/SPAN	Bypass		
M1GCCB	Copper	Copper	✓					10/100/1000M
M1GCCA	Copper	Copper	✓	✓	✓		✓	100/1000M
M1GCSA	Copper	SFP	✓	✓	✓		✓	100/1000M
M1GMCA	MM Fiber	Copper	✓	✓	✓			1000M
M1GMSA	MM Fiber	SFP	✓	✓	✓			1000M
M1GSCA	SM Fiber	Copper	✓	✓	✓			1000M
M1GSSA	SM Fiber	SFP	✓	✓	✓			1000M
M1GCCBP	Copper	Copper	✓	✓	✓	✓	✓	100/1000M
M1GCSBP	Copper	SFP	✓	✓	✓	✓	✓	100/1000M
M1GMCBP	MM Fiber	Copper	✓	✓	✓	✓	✓	1000M
M1GMSBP	MM Fiber	SFP	✓	✓	✓	✓	✓	1000M
M1GSCBP	SM Fiber	Copper	✓	✓	✓	✓	✓	1000M
M1GSSBP	SM Fiber	SFP	✓	✓	✓	✓	✓	1000M



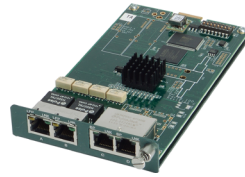
## Product Details

M1GCCA



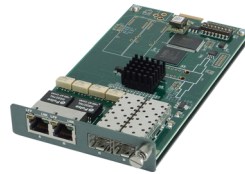
Modular 100/1000M Aggregation TAP  
2 Copper RJ-45 Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

M1GCCB



Modular 10/100/1000M Breakout TAP  
2 Copper RJ-45 Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Passes data-link layer errors  
Plug-n-Play No Configuration

M1GCSA



Modular 1000M Aggregation TAP  
2 Copper RJ-45 Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

M1GMCA



Modular 1000M Aggregation TAP  
2 Multi-Mode Passive Fiber LC Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

M1GMSA



Modular 1000M Aggregation TAP  
2 Multi-Mode Passive Fiber LC Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

M1GSCA



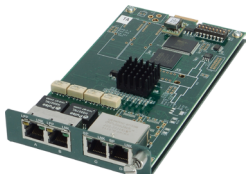
Modular 1000M Aggregation TAP  
2 Single-Mode Passive Fiber LC Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

M1GSSA



Modular 1000M Aggregation TAP  
2 Single-Mode Passive Fiber LC Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN

M1GCCBP



Modular 100/1000M Aggregation TAP  
2 Copper RJ-45 Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

M1GCSBP



Modular 100/1000M Aggregation TAP  
2 Copper RJ-45 Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

M1GMCBP



Modular 1000M Aggregation TAP  
2 Multi-Mode Passive Fiber Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

M1GMSBP



Modular 1000M Aggregation TAP  
2 Multi-Mode Passive Fiber Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

M1GSCBP



Modular 1000M Aggregation TAP  
2 Single-Mode Passive Fiber Tap Ports  
2 Copper RJ-45 Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support

M1GSSBP



Modular 1000M Aggregation TAP  
2 Single-Mode Passive Fiber Tap Ports  
2 SFP Monitoring Ports  
Single Power Supply  
Supports Breakout, Aggregation, SPAN  
Packet Injection Support



# Modular Bypass TAPs with Heartbeat

10 Gigabit

## Putting our Heart Into your Network

The M10G line of TAPs are powerful, comprehensive access solutions. Supporting network speeds up to 10G, these Bypass TAPs support all modes and Garland's heartbeat technology.

While these Modules will not fit into our regular M1G1 and M1G2 chassis, the M10G1AC and M10G1DC chassis offer a 1U solution and fit up to 4 TAPs each and have 1 management port per module.

## Key Benefits to a Heartbeat System

- Configurable TAP modules
- Support all 10G interfaces
- High Density design - reduce rack space and power connections!
- 1 Management port per module
- Supports Jumbo Frames
- Bi-directional heartbeats
- Runs at 100% utilization with heartbeats
- Packet Injection in Aggregation mode

## TAP Details

Model #	Media		Modes				Packet Injection Support	Network Speed
	Network	Monitor	Breakout	Aggregating	Regenerating/SPAN	Bypass		
M10GMSBP	MM Fiber	SFP+	✓	✓	✓	✓	✓	10G
M10GSSBP	SM Fiber (LR)	SFP+	✓	✓	✓	✓	✓	10G
M10GESBP	SM Fiber (ER)	SFP+	✓	✓	✓	✓	✓	10G

## Chassis Details

Model #	Number of TAPs	Product Description	Power Supply
M10G1AC	4	1U 10 Gigabit Chassis Supports 4 M10GxxBP TAPs Dual AC Power Supplies	Dual AC
M10G1DC	4	1U 10 Gigabit Chassis Supports 4 M10GxxBP TAPs Dual DC -48v Power Supplies	Dual DC -48vdc



## M10G1AC

1U 10 Gigabit Chassis  
Supports 4 M10GxxBP TAPs  
Dual AC Power Supplies

## M10G1DC

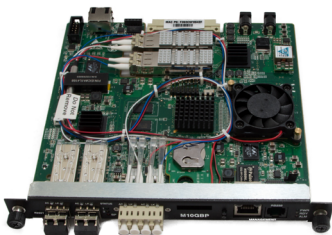
1U 10 Gigabit Chassis  
Supports 4 M10GxxBP TAPs  
Dual DC -48v Power Supplies



The M10G1 1U chassis are available in Dual AC and Dual DC power supplies.

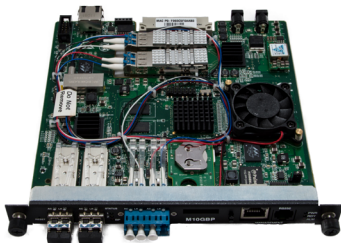
Not sure what you need? Ask a network designer at [info@garlandtechnology.com](mailto:info@garlandtechnology.com)!

## M10GMSBP



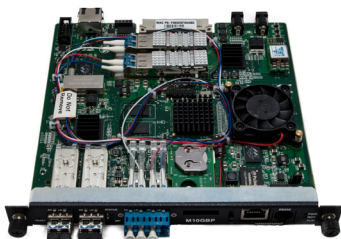
10 Gigabit-SR Bypass TAP Module  
2 Multi-mode SR Fiber Network Ports  
2 SFP+ Cage Monitoring Ports

## M10GSSBP



10 Gigabit-LR Bypass TAP Module  
2 Single-mode LR Fiber Network Ports  
2 SFP+ Cage Monitoring Ports

## M10GESBP



10 Gigabit-ER Bypass TAP Module  
2 Single-mode ER Fiber Network Ports  
2 SFP+ Cage Monitoring Ports





# Filtering Aggregating Load Balancing Systems

## FAB - Simplify Your Network

The Filtering Aggregating Load Balancer (FAB) is ideal for directing traffic flow from one or more sources to multiple monitoring or security devices. With every port supporting every feature and being fully configurable, the FAB gives you ultimate flexibility in network visibility.

The FAB supports 10/100/1000M Copper and 1G, 10G, and 40G Multi- and Single-mode Fiber systems with one-to-many, many-to-one, and many-to-many configurations.

Turn any port into an input or output port - with the FAB solution, you have ultimate control of your data.

### Key Benefits to the FAB

- One-to-many, many-to-one, many-to-many configurations
- All ports can be configured as input or monitoring ports
- 1U Chassis with dual power supplies
- Packet Slicing support
- Load balancing using multiple definitions
- Supports MPLS and Q in Q framing
- No per-port licensing fees
- Syslog friendly device management

The FAB has dual internal power supplies, available in AC and DC.



NEW! FAB supports user-based security right down to the port level

The FAB System offers 8, 16, 24, 36, or 48 ports.



The management and console ports allow you to change modes, check stats, and configure your FAB system.





**1 Gigabit  
10 Gigabit  
40 Gigabit**

#### FAB10G8AC



1/10G Filtering Aggregation Load Balancing System  
8 SFP/SFP+ Ports  
1U Integrated Chassis with Dual AC Power Supplies  
Supports Filtering, Aggregation, Load Balancing, Packet Slicing, Tag Stripping, VLAN Tagging, Jumbo Frames, and Regeneration (Any-to-Any)  
1 Management Port & 1 Console Port

#### FAB10G16AC



1/10G Filtering Aggregation Load Balancing System  
16 SFP/SFP+ Ports  
1U Integrated Chassis with Dual AC Power Supplies  
Supports Filtering, Aggregation, Load Balancing, Packet Slicing, Tag Stripping, VLAN Tagging, Jumbo Frames, and Regeneration (Any-to-Any)  
1 Management Port & 1 Console Port

#### FAB10G24AC



1/10G Filtering Aggregation Load Balancing System  
24 SFP/SFP+ Ports  
1U Integrated Chassis with Dual AC Power Supplies  
Supports Filtering, Aggregation, Load Balancing, Packet Slicing, Tag Stripping, VLAN Tagging, Jumbo Frames, and Regeneration (Any-to-Any)  
1 Management Port & 1 Console Port

#### FAB10G48AC



1/10G Filtering Aggregation Load Balancing System  
48 SFP/SFP+ Ports  
1U Integrated Chassis with Dual AC Power Supplies  
Supports Filtering, Aggregation, Load Balancing, Packet Slicing, Tag Stripping, VLAN Tagging, Jumbo Frames, and Regeneration (Any-to-Any)  
1 Management Port & 1 Console Port

#### FAB10G40AC



1/10G FAB System  
16 SFP/SFP+ Ports  
24 10/100/1000M Copper Ports  
1U Integrated Chassis with dual hot swappable power supplies  
Supports Filtering, Aggregation, Load Balancing, Packet Slicing, Tag Stripping, VLAN Tagging, Jumbo Frames, and Regeneration (Any-to-Any)  
1 management port, 1 console port

#### FAB40G36AC



1/10/40G Filtering Aggregation Load Balancing System  
4 40 Gigabit QSFP Ports  
36 SFP/SFP+ Ports  
1U Integrated Chassis with Dual AC Power Supplies  
Supports Filtering, Aggregation, Load Balancing, Packet Slicing, Tag Stripping, VLAN Tagging, Jumbo Frames, and Regeneration (Any-to-Any)  
1 Management Port & 1 Console Port



# High Availability Bypass TAP System

## Everything You Need for In-Line Tools

The Integrated 1U Bypass High Availability system provides complete fail-safe protection for any in-line appliance including:

- Firewalls
- Intrusion Prevention Systems (IPS)
- Data Leakage Protection (DLP)
- Web application user experience
- Content filtering

This hardware-only solution delivers a simple way to TAP a link once and connect to a plethora of devices. For any organization, downtime should be avoided at all costs - let Garland keep your network live.

## Key Benefits

- TAP once, connect up to 4 analyzers
- Double coverage on active and secondary links
- Supports Jumbo Frames
- Serial Management Port
- 100% Network Uptime
- Supports Aggregation, Bypass, and Regeneration

## Product Details

Model #	Media		Modes				Network Speed
	Network	Monitor	Breakout	Aggregation	Regeneration/SPAN	Bypass	
INT1G8CCBP	Copper	Copper	✓	✓	✓	✓	100/1000M
INT1G8MCBP	MM Fiber	Copper	✓	✓	✓	✓	100/1000M
INT1G8SCBP	SM Fiber	Copper	✓	✓	✓	✓	1000M







**10/100/1000M**  
**1Gigabit**  
**Copper and Fiber**

**INT1G8CCBP**



Bypass 1U Integrated Chassis  
2 100/1000 Copper Tap ports; 6 100/1000 Copper Monitoring Ports  
Ports C, D, E, F support Breakout and Bypass  
Ports G, H support Breakout & Aggregation Modes  
Dual Power Supply

**INT1G8MBCP**



Bypass 1U Integrated Chassis  
2 1000Base-SX Multi-Mode Fiber Tap ports; 6 100/1000 Copper Monitoring Ports  
Ports C, D, E, F support Breakout and Bypass  
Ports G, H support Breakout & Aggregation Modes  
Dual Power Supply

**INT1G8SCBP**



Bypass 1U Integrated Chassis  
2 1000Base-LX Single-Mode Fiber Tap ports; 6 100/1000 Copper Monitoring Ports  
Ports C, D, E, F support Breakout and Bypass  
Ports G, H support Breakout & Aggregation Modes  
Dual Power Supply



# Modular Bypass TAPs without Heartbeat

1 Gigabit  
10 Gigabit

## No Power, No Problem!

The zero power bypass TAPs are perfect for installing in-line appliances into your network. The M1GxxBPZP and M10GxxBPZP models offer the stability and access you need right out of the box. Similar to our OMxxxx and OSxxxx models, these are passive TAPs used in Fiber networks.

Bypass TAP mode allows you to install in-line appliances without adding a point of failure. See every bit of data in your network - and feel secure doing it!

### Key Benefits to Modular TAPs

- Support all 1G interfaces
- Fiber TAPs are passive
- Modular design supports 1U and 2U chassis
- High Density design
- Passes Physical Layer Errors
- Can run 100% Utilization with Heartbeat Technology
- Supports Jumbo Frames

## Product Details

Model #	Media		Modes				Packet Injection Support	Network Speed
	Network	Monitor	Breakout	Aggregation	Regeneration/SPAN	Bypass		
M1GM62BPZP	MM Fiber	MM Fiber	✓			✓		1000M
M1GS9BPZP	SM Fiber	SM Fiber	✓			✓		1000M
M10GM62BPZP	MM Fiber	MM Fiber	✓			✓		1000M
M10GS9BPZP	SM Fiber	SM Fiber	✓			✓		1000M



10/100/1000M,  
1Gigabit, 10Gigabit, 40Gigabit  
Copper and Fiber

## Product Details

Model #	Media	Product Description	Network Speed
SFPTX	Copper	SFP 10/100/1000 Copper RJ-45 Connector	10/100/1000M
SFPSX	MM Fiber	SFP 1000Base-SX Multi-Mode Fiber LC Connector	1000M
SFPLX	SM Fiber	SFP 1000Base-LX Single-Mode Fiber LC Connector	1000M
SFP+SR	MM Fiber	SFP+ 10Gigabit-SR Multi-Mode Fiber LC Connector	1/10G
SFP+LR	SM Fiber	SFP+ 10Gigabit-LR Single-Mode Fiber LC Connector	1/10G
SFP+ER	SM Fiber	SFP+ 10Gigabit-ER Single-Mode Fiber LC Connector	10G
TWINAX1M	Copper	Twinax Copper Direct Connect Cable SFP+ 10Gigabit 1 Meter	10G
TWINAX5M	Copper	Twinax Copper Direct Connect Cable SFP+ 10Gigabit 5 Meters	10G
TWINAX10M	Copper	Twinax Copper Direct Connect Cable SFP+ 10Gigabit 10 Meters	10G
QSFP	MM Fiber	QSFP+ 40Gigabit Multi-Mode Fiber LC Connector	40G
SFP+SR10G	MM Fiber	SFP+ 10Gigabit-SR Multi-Mode Fiber LC Connector **Required for M10G Line**	10G
SFP+LR10G	SM Fiber	SFP+ 10Gigabit-LR Single-Mode Fiber LC Connector **Required for M10G Line**	10G
SFP+ER10G	MM Fiber	SFP+ 10Gigabit-ER Single-Mode Fiber LC Connector **Required for M10G Line**	10G





# EdgeLens™ System

## Secure the Edge

The EdgeLens™ is ideal for all of your monitoring needs at the network's edge. When your 1G appliances can no longer keep up with your 10G network or you need to connect multiple tools to one network link, the EdgeLens™ provides your IT team with the necessary flexibility.

With this powerful 1U box, you can:

- TAP a 1G link and deliver data to 1G and 10G tools
- TAP a 10G link and deliver data to 1G and 10G tools
- TAP once and connect multiple in-line appliances

Learn more about the Garland Technology EdgeLens™ by visiting [garlandtechnology.com](http://garlandtechnology.com)

## Key Benefits

- Up to 4 segments of bypass/failover functionality
- Active switching of traffic in case of system failure
- High availability failover capabilities
- 10 Gigabit Multi (SR) and Single (LR) mode support
- 16 SFP+ Ports for extensive packet filtering, distribution, aggregation & mirroring
- Support for SFP (SX, LX and TX) and SFP+ (SR, LR, ER) on inline appliance ports
- Extensive CLI and WEB based management (GUI)
- Available in AC and DC Power



## The EdgeLens™ Family

Integrated 1U chassis single bypass TAP system  
Supports filtering, aggregating, load balancing and regeneration  
One (1) or Four (4) 1 Gigabit-SX/10 Gigabit-SR or LR TAPs  
Ten (10) or Sixteen (16) SFP/SFP+ ports  
Supports heartbeats for port pairs  
Dual AC hot swappable power supplies  
1 Management Port; 1 Console Port



#### INT10G2SRBP10SFP+



Integrated 1U chassis single bypass TAP system  
 Supports filtering, aggregating, load balancing and regeneration  
 One (1) 1 Gigabit-SX/10 Gigabit-SR TAP  
 Ten (10) SFP/SFP+ ports  
 Supports heartbeats for port pairs  
 Dual AC hot swappable power supplies  
 1 Management Port; 1 Console Port

#### INT10G2LRBP10SFP+



Integrated 1U chassis single bypass TAP system  
 Supports filtering, aggregating, load balancing and regeneration  
 One (1) 1 Gigabit-SX/10 Gigabit-LR TAP  
 Ten (10) SFP/SFP+ ports  
 Supports heartbeats for port pairs  
 Dual AC hot swappable power supplies  
 1 Management Port; 1 Console Port

#### INT10G2SRBP16SFP+



Integrated 1U chassis single bypass TAP system  
 Supports filtering, aggregating, load balancing and regeneration  
 Four (4) 1 Gigabit-SX/10 Gigabit-SR TAPs  
 Sixteen (16) SFP/SFP+ ports  
 Supports heartbeats for port pairs  
 Dual AC hot swappable power supplies  
 1 Management Port; 1 Console Port

#### INT10G8LRBP16SFP+



Integrated 1U chassis single bypass TAP system  
 Supports filtering, aggregating, load balancing and regeneration  
 Four (4) 1 Gigabit-SX/10 Gigabit-LR TAPs  
 Sixteen (16) SFP/SFP+ ports  
 Supports heartbeats for port pairs  
 Dual AC hot swappable power supplies  
 1 Management Port; 1 Console Port

Join The Conversation



# GARLAND

T E C H N O L O G Y

**See every bit, byte, and packet™**

[Garlandtechnology.com](http://Garlandtechnology.com)