

Product Catalog



Made, tested & supported in the U.S.A.



Foundation of Visibility

Starts with seeing every bit, byte, and packet®

Garland Technology's best-in-class Network TAP and purpose-built Packet Broker solutions provide an innovative, industry leading 360° visibility view for modern visibility fabrics.

Garland's unique TAP to Tool™ Architecture puts the focus on the performance and visibility of your security and monitoring tools. Offering modular and open vendor solutions, we provide the scalability and flexibility to deploy what you need, when you need it.

It all starts with the packet. On your journey for complete visibility truth, Garland Technology provides visibility, along with increased performance, optimization, scalability and adaptability that adds value to your investment, while mitigating risk.

Adaptability. Scalability. Flexibility. Highest Quality. Simple to Deploy. Add Value.

The Garland Leadership



Chris Bihary, CEO/Co-Founder

Chris Bihary has been in the network performance industry for over 20 years. Bihary has established collaborative partnerships with technology companies to complement product performance through the integration of network test access points.



Jerry Dillard, CTO/Co-Founder

Jerry Dillard leverages two decades in design and engineering to ensure maximum performance within today's network environments. Dillard, as the inventor of the Bypass Network Test Access Point (TAP), has secured his legacy as he continues to provide network solutions for data centers worldwide.

Our Commitment to Quality

Garland Technology's focus will remain centered around reliability while delivering the greatest economical solutions for today's network teams and the most complex and extensive data center environments worldwide.

The "Garland Quality Standard" ensures all network TAPs are stress tested with live network data and validated, with zero failures in the field. Made, tested, and supported in the U.S.A.



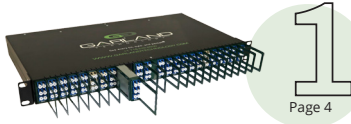
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Garland Technology | Products

Garland Technology ensures complete 360° network visibility by delivering a full platform of network access products including: Breakout TAPs, Aggregator and Regeneration TAPs, Advanced All-In-1 Filtering TAPs, Inline Edge Security Bypass TAPs, Cloud solutions, as well as purpose built Network Packet Broker devices including Advanced Aggregators and Advanced Features.

Network Test Access Points (TAPs)



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Breakout Network TAPs: Passive Fiber and Copper Page 4 Page 12

Fiber network TAPs range in network speeds of 1G, 10G, 25, 40G and 100G. Fiber Network TAPs are passive. Copper network TAPs in network speeds of 10/100M or 10M/100M/1000M (1G). Passive Fiber and Copper. Breakout TAPs make a 100% copy of your network's data without affecting traffic for network monitoring.



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Aggregator Network TAPs Page 15

Aggregator/regeneration network TAPs are used to capture 100% full duplex network traffic and are available in copper 10/100/1000M (1G) and fiber 1G and 10G, single or multi-mode. Aggregation TAPs support breakout and regeneration/SPAN modes for network monitoring.



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XtraTAP™: All-In-1 Network TAPs Page 21

All-In-1 filtering network TAPs, available in 1G, allow you to filter out the packets and traffic that is not needed by the tool to perform its function. Filtering ensures that monitoring ports do not become oversubscribed with unneeded data.



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EdgeSafe™: Bypass Network TAPs Page 24

Bypass network TAPs with failsafe for inline security tools, monitors the appliances' health. Available in 100/1000M/1G and 10G, these TAPs support bypass tap 'breakout,' aggregation and regeneration/SPAN modes, allowing you to optimize the lifecycle of your appliance.



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Cloud Solutions Page 29

Network Packet Visibility for Public Cloud Environment. Prisms is the most advanced, easiest, and most affordable solution to get cloud packets to monitoring tools and services.

Network Packet Broker Solutions



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PacketMAX™: Advanced Aggregators Page 30

Advanced Aggregators are devices designed to increase efficiency and port utilization in network speeds of 1G, 10G, 25G, 40G and 100G. This is achieved by aggregating and pre-filtering traffic prior to sending out to Network Packet Broker's for advanced filtering or taking the place of network packet brokers in applications where only L2-L4 filtering is required.



PacketMAX™: Advanced Features Page 33

Advanced Features is a standalone platform to extend the feature set of any product. The system is designed to support large window deduplication, packet slicing and time stamping. Deduplication and packet slicing can significantly reduce the processing overhead from security or monitoring tools.



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Hybrid Network Packet Brokers Page 34

Purpose-built Network Packet Brokers, available in 1G and 10G with TAP functionality, the PacketSTAX™ and EdgeLens® provide access to network traffic from multiple links, helping to centralize and improve efficiencies by sharing packets between the monitoring and inline security appliances.

Accessories



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Pluggables Transceivers and Cables Page 38

The most efficient network infrastructure is one that allows traffic to flow seamlessly from end to end and allows for 100% visibility, and access where and when you need it.

1

Breakout TAPs

Passive Fiber and Copper

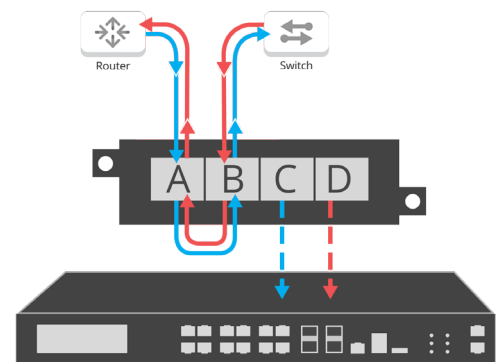
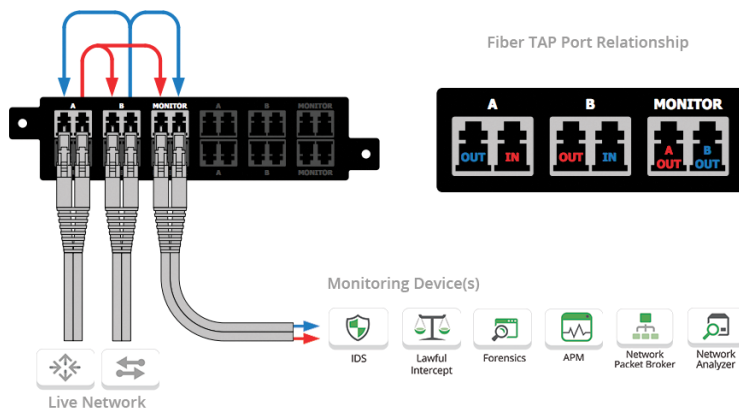
Garland Technology's **Passive Fiber Test Access Points (TAPs)** are high-density, non-powered devices that makes a full copy of any network's data without affecting network traffic, providing visibility and the high-performance monitoring solution required to efficiently manage even the most complex network infrastructure.

Garland Technology offers fiber network TAPs in network speeds of 1G, 10G, 25G, 40G and 100G and supports OS1/OS2, OM1/OM2/OM3/OM4/OM5 media.

Garland Technology's **Copper Test Access Points (TAPs)** sets the industry's benchmark with features to include link speed synchronization, link failure propagation, media conversion, fail-safe technology, power over ethernet, and utilization rules and alerts, allowing Garland Technology to provide the visibility required to efficiently manage even the most complex network infrastructure.

Garland Technology offers copper network TAPs in network speeds of 10/100M or 10M/100M/1000M (1G).

NETWORK FLOW



- 100% network visibility
- 100% secure and invisible; no IP address; no Mac address; cannot be hacked
- Passes physical layer errors
- Packet injection and packet slicing available.
- Portable, plug & play units or 1U or 2U chassis systems

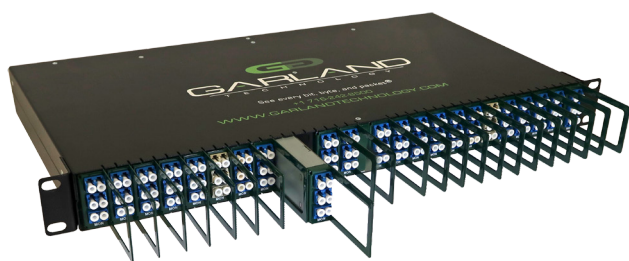
APPLICATIONS

- > Network & Application Monitoring
- > Network & Application Analysis
- > Network & Application Performance

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

SelectTAP™: Fiber Modular Chassis

1G/10G/25G/40G/100G



- Customize TAPs by media and/or speeds
- Change TAP modules on-the-fly or in the future
- Accommodates 16 to 24 modules, depending on configuration (24 LC TAP Modules, 16 MPO/MTP® TAP Modules, 16 BiDi LC TAP Modules)
- Supports Single-mode: OS1 and Multi-mode: OM3/OM4 media for long range and short range environments*
- Supports Cisco BiDirectional optical technology
- New prism based technology reduces bit errors on OM3/OM4/OM5 applications, providing 100% utilization
- No power source required
- Tested and Certified

1U Modular Chassis



| Model # | Network Speed | Ports | # of TAPs | Split Ratio* | Wavelengths | Media | Connector/Mode |
|---------------------------|-----------------------|---|-----------|------------------------|---|---------------|----------------------------|
| FMC-1U | Fiber Modular Chassis | | | | | | |
| OS2501M | 1/10/25/40/100G |  | 1 | 50/50 | 1310/1550nm | Fiber-OS1/OS2 | Fiber-LC Single-Mode Fiber |
| OS2701M | 1/10/25/40/100G | | 1 | 70/30 | 1310/1550nm | Fiber-OS1/OS2 | Fiber-LC Single-Mode Fiber |
| OM1501M | 1/10G |  | 1 | 50/50 | 850/1300nm | Fiber-OM1/OM2 | Fiber-LC Multi-Mode Fiber |
| OM1701M | 1/10G | | 1 | 70/30 | 850/1300nm | Fiber-OM1/OM2 | Fiber-LC Multi-Mode Fiber |
| OM4501M | 1/10/25G |  | 1 | 50/50 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM4701M | 1/10/25G | | 1 | 70/30 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM5501M | 1/10/25/40/100G* |  | 1 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM5701M | 1/10/25/40/100G* | | 1 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM4501-40GSR4BiDiM | 40G |  | 1 | 50/50 | 800-950nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM4701-40GSR4BiDiM | 40G | | 1 | 70/30 | 800-950nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM5501-40GSR4BiDiM | 40/100G* |  | 1 | | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM5701-40GSR4BiDiM | 40/100G* | | 1 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OS2502-BiDiM | 1G/10G |  | 2 | 50/50 | 1270~1350nm/ 1450~1530nm/ 1510~1590nm | Fiber-OS2 | Fiber-LC Single-Mode |
| OS2501-BiDiM | 1G/10G | | 1 | 50/50 | 1270~1350nm/ 1450~1530nm/ 1510~1590nm | Fiber-OS2 | Fiber-LC Single-Mode |
| OM4501-SR4BM | 40/100G |  | 1 | 50/50 | 850nm | Fiber-OM3/OM4 | MTP-12 Multi-Mode Fiber |
| OM4701-SR4BM | 40/100G | | 1 | 70/30 | 850nm | Fiber-OM3/OM4 | MTP-12 Multi-Mode Fiber |
| OM5501-SR4BM | 40/100/400G* | | 1 | 50/50 | 850-950nm | Fiber OM5 | MTP12 Multi-Mode Fiber |
| OM5701-SR4BM | 40/100/400G* | | 1 | 70/30 | 850-950nm | Fiber OM5 | MTP12 Multi-Mode Fiber |
| OM4501-100GSR10AM | 100G | | 1 | 50/50 | 850nm | Fiber-OM3/OM4 | MTP-24 Multi-Mode Fiber |
| OM4701-100GSR10AM | 100G | | 1 | 70/30 | 850nm | Fiber-OM3/OM4 | MTP-24 Multi-Mode Fiber |
| OS23321X3M | 1G/10G | | 1 | 33.3/ 33.3/ 33.3 | 1310/1550nm | Fiber-OS2 | Fiber LC Single-Mode Fiber |
| OM43321X3M | 1G/10G | | 1 | 33.3/ 33.3/ 33.3 | 850nm | Fiber-OM3/OM4 | Fiber LC Multi-Mode Fiber |

OS2 Fiber supports OS1 & OS2; OM1 Fiber supports OM1 & OM2; OM5 Fiber supports OM3 & OM4. Supports: 90/10, 80/20, 50/50, 70/30, 60/40 *100G SWDM4

Single-mode Passive Fiber Network TAPs

1G/10G/25G/40G/100G | Portable



- 1U rack mount kit holds up to 4 modules, each module can have 1, 2, 3, or 4 TAPs
- Single-mode with LC Connectors
- Supports long range and extended range single-mode environments.
- Split ratios available in 50/50; 60/40; 70/30; 80/20 and 90/10
- Portable, Plug & Play easy installation
- No power source required
- Tested and Certified



RMP-1U



| Model # | Network Speed | Ports | # of TAPs | Split Ratio* | Wavelengths | Media | Connector/Mode |
|---------|-----------------|-------|--|--------------|-------------|-----------|----------------------------|
| RMP-1U | | | 1U Rack Mount Kit - Hold up to 4 Modules, each Module can have 1, 2, 3 or 4 TAPs | | | | |
| OS1501 | 1/10/25/40/100G | | 1 | 50/50 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-Mode Fiber |
| OS1701 | 1/10/25/40/100G | | 1 | 70/30 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-Mode Fiber |
| OS2501 | 1/10/25/40/100G | | 1 | 50/50 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-Mode Fiber |
| OS2701 | 1/10/25/40/100G | | 1 | 70/30 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-Mode Fiber |
| OS1502 | 1/10/25/40/100G | | 2 | 50/50 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-Mode Fiber |
| OS1702 | 1/10/25/40/100G | | 2 | 70/30 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-Mode Fiber |
| OS2502 | 1/10/25/40/100G | | 2 | 50/50 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-Mode Fiber |
| OS2702 | 1/10/25/40/100G | | 2 | 70/30 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-Mode Fiber |
| OS1503 | 1/10/25/40/100G | | 3 | 50/50 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-Mode Fiber |
| OS1703 | 1/10/25/40/100G | | 3 | 70/30 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-Mode Fiber |
| OS2503 | 1/10/25/40/100G | | 3 | 50/50 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-Mode Fiber |
| OS2703 | 1/10/25/40/100G | | 3 | 70/30 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-Mode Fiber |
| OS1504 | 1/10/25/40/100G | | 4 | 50/50 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-Mode Fiber |
| OS1704 | 1/10/25/40/100G | | 4 | 70/30 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-Mode Fiber |
| OS2504 | 1/10/25/40/100G | | 4 | 50/50 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-Mode Fiber |
| OS2704 | 1/10/25/40/100G | | 4 | 70/30 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-Mode Fiber |

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

Multi-mode Passive Fiber Network TAPs

1G/10/25/40/100G | Portable



- 1U rack mount kit holds up to 4 modules, each module can have 1, 2, 3, or 4 TAPs
- Multi-mode fiber with LC Connectors
- New Prism based technology that reduces bit errors on OM3 + OM4/OM5 applications, providing 100% utilization
- Split ratios available in 50/50; 60/40; 70/30; 80/20 and 90/10
- No power source required



RMP-1U



| Model # | Network Speed | Ports | # of TAPs | Split Ratio* | Wavelengths | Media | Connector/Mode |
|---------|--|-------|-----------|--------------|-------------|---------------|---------------------------|
| RMP-1U | 1U Rack Mount Kit - Hold up to 4 Modules, each Module can have 1, 2, 3 or 4 TAPs | | | | | | |
| OM1501 | 1/10G | | 1 | 50/50 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-Mode Fiber |
| OM1701 | 1/10G | | 1 | 70/30 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-Mode Fiber |
| OM3501 | 1/10/25G | | 1 | 50/50 | 850/1300nm | Fiber-OM3 | Fiber-LC Multi-Mode Fiber |
| OM4501 | 1/10/25G | | 1 | 50/50 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM4701 | 1/10/25G | | 1 | 70/30 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM5501 | 1/10/25/40/100G* | | 1 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM5701 | 1/10/25/40/100G* | | 1 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM1502 | 1/10G | | 2 | 50/50 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-Mode Fiber |
| OM1702 | 1/10G | | 2 | 70/30 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-Mode Fiber |
| OM3502 | 1/10/25G | | 2 | 50/50 | 850/1300nm | Fiber-OM3 | Fiber-LC Multi-Mode Fiber |
| OM4502 | 1/10/25G | | 2 | 50/50 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM4702 | 1/10/25G | | 2 | 70/30 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM5502 | 1/10/25/40/100G* | | 2 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM5702 | 1/10/25/40/100G* | | 2 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM1503 | 1/10G | | 3 | 50/50 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-Mode Fiber |
| OM1703 | 1/10G | | 3 | 70/30 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-Mode Fiber |
| OM3503 | 1/10/25G | | 3 | 50/50 | 850/1300nm | Fiber-OM3 | Fiber-LC Multi-Mode Fiber |
| OM4503 | 1/10/25G | | 3 | 50/50 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM4703 | 1/10/25G | | 3 | 70/30 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM5503 | 1/10/25/40/100G* | | 3 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM5703 | 1/10/25/40/100G* | | 3 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM1504 | 1/10G | | 4 | 50/50 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-Mode Fiber |
| OM1704 | 1/10G | | 4 | 70/30 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-Mode Fiber |
| OM3504 | 1/10/25G | | 4 | 50/50 | 850/1300nm | Fiber-OM3 | Fiber-LC Multi-Mode Fiber |
| OM4504 | 1/10/25G | | 4 | 50/50 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM4704 | 1/10/25G | | 4 | 70/30 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-Mode Fiber |
| OM5504 | 1/10/25/40/100G* | | 4 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM5704 | 1/10/25/40/100G* | | 4 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |

Custom split ratios are available in 60/40, 80/20 or 90/10, please inquire. *100G SWDM4

Single-mode Passive Fiber HD Network TAP

1G/10G/25G/40G/100G | High Density | 1U Chassis



- 100% secure and invisible; no IP address; no Mac address; cannot be hacked
- Single mode passive optical for up to 100Gb Ethernet
- Passes physical layer errors
- 1U chassis holds 28 or 56 TAPs - 56 TAP units are populated front and back
- Plug & Play easy installation, no configuration; no additional
- Tested and certified

| Model # | Network Speed | Chassis | # of TAPs | Split Ratio* | Wavelengths | Media | Connector/Mode |
|---------|-----------------|---------|-----------|--------------|-------------|-----------|----------------------------|
| OS15028 | 1/10/25/40/100G | 1U | 28 | 50/50 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-mode Fiber |
| OS17028 | 1/10/25/40/100G | 1U | 28 | 70/30 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-mode Fiber |
| OS25028 | 1/10/25/40/100G | 1U | 28 | 50/50 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-mode Fiber |
| OS27028 | 1/10/25/40/100G | 1U | 28 | 70/30 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-mode Fiber |
| OS15056 | 1/10/25/40/100G | 1U | 56 | 50/50 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-mode Fiber |
| OS17056 | 1/10/25/40/100G | 1U | 56 | 70/30 | 1310/1550nm | Fiber-OS1 | Fiber-LC Single-mode Fiber |
| OS25056 | 1/10/25/40/100G | 1U | 56 | 50/50 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-mode Fiber |
| OS27056 | 1/10/25/40/100G | 1U | 56 | 70/30 | 1310/1550nm | Fiber-OS2 | Fiber-LC Single-mode Fiber |

Custom split ratios are available in 60/40, 80/20, 90/10, please inquire. *56 1U Fiber TAPs are populated front and back.

Multi-mode Passive Fiber HD Network TAP

1G/10G/25G/40G/100G | High Density | 1U Chassis



- 100% secure and invisible; no IP address; no Mac address; can't be hacked
- Passes physical layer errors
- Supports Breakout Mode and Jumbo frames
- 1U chassis holds 28 or 56 TAPs - 56 TAP units are populated front & back
- Plug & Play easy installation, no configuration; no additional power
- Tested and certified

| Model # | Network Speed | Chassis | # of TAPs | Split Ratio* | Wavelengths | Media | Connector/Mode |
|---------|------------------|---------|-----------|--------------|-------------|---------------|---------------------------|
| OM15028 | 1/10G | 1U | 28 | 50/50 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-mode Fiber |
| OM17028 | 1/10G | 1U | 28 | 70/30 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-mode Fiber |
| OM35028 | 1/10G/25G | 1U | 28 | 50/50 | 850/1300nm | Fiber-OM3 | Fiber-LC Multi-mode Fiber |
| OM45028 | 1/10G/25G | 1U | 28 | 50/50 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-mode Fiber |
| OM47028 | 1/10G/25G | 1U | 28 | 70/30 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-mode Fiber |
| OM55028 | 1/10/25/40/100G* | 1U | 28 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM57028 | 1/10/25/40/100G* | 1U | 28 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM15056 | 1/10G | 1U | 56 | 50/50 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-mode Fiber |
| OM17056 | 1/10G | 1U | 56 | 70/30 | 850/1300nm | Fiber-OM1 | Fiber-LC Multi-mode Fiber |
| OM35056 | 1/10G/25G | 1U | 56 | 50/50 | 850/1300nm | Fiber-OM3 | Fiber-LC Multi-mode Fiber |
| OM45056 | 1/10G/25G | 1U | 56 | 50/50 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-mode Fiber |
| OM47056 | 1/10G/25G | 1U | 56 | 70/30 | 850nm | Fiber-OM3/OM4 | Fiber-LC Multi-mode Fiber |
| OM55056 | 1/10/25/40/100G* | 1U | 56 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |
| OM57056 | 1/10/25/40/100G* | 1U | 56 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode Fiber |

Custom split ratios are available in 60/40, 80/20, 90/10, please inquire. 56 1U Fiber TAPs are populated front and back. *100G SWDM4

BiDi Passive Fiber Network TAPs

40G-SR-BiDi | Cisco BiDirectional Optical Technology



1U Chassis with 21 TAPs

- Supports Cisco BiDirectional optical technology
- Unique design provides flexibility to TAP multi-mode OM3/OM4/OM5 fiber types
- New Prism based technology that reduces bit errors on OM3 + OM4 applications, providing 100% utilization.
- 1U rack mount kit holds up to 4 modules, each module can have 1, 2, or 3 portable TAPs - no power source required
- Exclusive high density 1U chassis with 21 TAPs
- Tested and Certified



| Model # | Network Speed | Ports | # of TAPs | Split Ratio* | Wavelengths | Media | Connector/Mode |
|--------------------|--|-------|-----------|--------------|---|---------------|----------------------|
| RMP-1U | 1U Rack Mount Kit, holds up to 4 Modules, each Module can have 1, 2, 3 or 4 TAPs | | | | | | |
| OM4501-40GSR4BiDi | 40G | | 1 | 50/50 | 850-950nm | Fiber-OM3/OM4 | Fiber-LC-Multi-Mode |
| OM4502-40GSR4BiDi | 40G | | 2 | 50/50 | 850-950nm | Fiber-OM3/OM4 | Fiber-LC-Multi-Mode |
| OM4503-40GSR4BiDi | 40G | | 3 | 50/50 | 850-950nm | Fiber-OM3/OM4 | Fiber-LC-Multi-Mode |
| OM5501-40GSR4BiDi | 40/100G | | 1 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM5502-40GSR4BiDi | 40/100G | | 2 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM5503-40GSR4BiDi | 40/100G | | 3 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM45021-40GSR4BiDi | 40G | | 21 | 50/50 | 800/950nm | Fiber-OM3/OM4 | Fiber-LC-Multi-Mode |
| OM55021-40GSR4BiDi | 40/100G | | 21 | 50/50 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM4701-40GSR4BiDi | 40G | | 1 | 70/30 | 850-950nm | Fiber-OM3/OM4 | Fiber-LC-Multi-Mode |
| OM4702-40GSR4BiDi | 40G | | 2 | 70/30 | 850-950nm | Fiber-OM3/OM4 | Fiber-LC-Multi-Mode |
| OM4703-40GSR4BiDi | 40G | | 3 | 70/30 | 850-950nm | Fiber-OM3/OM4 | Fiber-LC-Multi-Mode |
| OM5701-40GSR4BiDi | 40/100G | | 1 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM5702-40GSR4BiDi | 40/100G | | 2 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM5703-40GSR4BiDi | 40/100G | | 3 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OM47021-40GSR4BiDi | 40G | | 21 | 70/30 | 850-950nm | Fiber-OM3/OM4 | Fiber-LC-Multi-Mode |
| OM57021-40GSR4BiDi | 40/100G | | 21 | 70/30 | 850-950nm | Fiber OM5 | Fiber-LC-Multi-Mode |
| OS2502-BiDi | 1G/10G | | 2 | 50/50 | 1270~1350nm/ 1450~1530nm/ 1510~1590nm | Fiber-OS2 | Fiber-LC Single-Mode |
| OS2504-BiDi | 1G/10G | | 4 | 50/50 | 1270~1350nm/ 1450~1530nm/ 1510~1590nm | Fiber-OS2 | Fiber-LC Single-Mode |
| OS2506-BiDi | 1G/10G | | 6 | 50/50 | 1270~1350nm/ 1450~1530nm/ 1510~1590nm | Fiber-OS2 | Fiber-LC Single-Mode |

MPO/MTP® Multi-mode Passive Fiber Network TAPs

40G/100G-SR4 or 100G-SR10 | Portable



OM4501

- Multi-mode fiber in MTP-12 and MTP-24
- 100G-SR4 can be configured with 4 Channels of 25G in each direction
- New Prism based technology that reduces bit errors on OM3 + OM4/OM5 applications, providing 100% utilization.
- MPO/MTP® brand connectors for lowest dB loss
- 1U rack mount kit holds up to 4 modules, each module can have 1, 2 or 3 portable TAPs
- Portable, Plug & Play easy installation
- No power source required
- Tested and Certified



RMP-1U



| Model # | Network Speed | Ports | # of TAPs | Split Ratio* | Wavelengths | Media | Connector/Mode |
|------------------|---------------|-------|--|--------------|-------------|---------------|-------------------------|
| RMP-1U | | | 1U Rack Mount Kit - Hold up to 4 Modules, each Module can have 1, 2, 3 or 4 TAPs | | | | |
| OM4501-SR4B | 40G/100G | | 1 | 50/50 | 850nm | Fiber-OM3/OM4 | MTP-12 Multi-Mode Fiber |
| OM4701-SR4B | 40G/100G | | 1 | 70/30 | 850nm | Fiber-OM3/OM4 | MTP-12 Multi-Mode Fiber |
| OM5501-SR4B | 40/100/400G* | | 1 | 50/50 | 850-950nm | Fiber OM5 | MTP-12 Multi-Mode Fiber |
| OM5701-SR4B | 40/100/400G* | | 1 | 70/30 | 850-950nm | Fiber OM5 | MTP-12 Multi-Mode Fiber |
| OM4502-SR4B | 40G/100G | | 2 | 50/50 | 850nm | Fiber-OM3/OM4 | MTP-12 Multi-Mode Fiber |
| OM4702-SR4B | 40G/100G | | 2 | 70/30 | 850nm | Fiber-OM3/OM4 | MTP-12 Multi-Mode Fiber |
| OM5502-SR4B | 40/100/400G* | | 2 | 50/50 | 850-950nm | Fiber OM5 | MTP-12 Multi-Mode Fiber |
| OM5702-SR4B | 40/100/400G* | | 2 | 70/30 | 850-950nm | Fiber OM5 | MTP-12 Multi-Mode Fiber |
| OM4503-SR4B | 40G/100G | | 3 | 50/50 | 850nm | Fiber-OM3/OM4 | MTP-12 Multi-Mode Fiber |
| OM4703-SR4B | 40G/100G | | 3 | 70/30 | 850nm | Fiber-OM3/OM4 | MTP-12 Multi-Mode Fiber |
| OM5503-SR4B | 40/100/400G* | | 3 | 50/50 | 850-950nm | Fiber OM5 | MTP-12 Multi-Mode Fiber |
| OM5703-SR4B | 40/100/400G* | | 3 | 70/30 | 850-950nm | Fiber OM5 | MTP-12 Multi-Mode Fiber |
| | | | | | | | |
| OM4501-100GSR10A | 100G | | 1 | 50/50 | 850nm | Fiber-OM3/OM4 | MTP-24 Multi-mode Fiber |
| OM4702-100GSR10A | 100G | | 2 | 70/30 | 850nm | Fiber-OM3/OM4 | MTP-24 Multi-mode Fiber |
| OM4503-100GSR10A | 100G | | 3 | 50/50 | 850nm | Fiber-OM3/OM4 | MTP-24 Multi-mode Fiber |
| OM4701-100GSR10A | 100G | | 1 | 70/30 | 850nm | Fiber-OM3/OM4 | MTP-24 Multi-mode Fiber |
| OM4502-100GSR10A | 100G | | 2 | 50/50 | 850nm | Fiber-OM3/OM4 | MTP-24 Multi-mode Fiber |
| OM4703-100GSR10A | 100G | | 3 | 70/30 | 850nm | Fiber-OM3/OM4 | MTP-24 Multi-mode Fiber |

Split ratios available in 50/50; 60/40; 70/30; 80/20 and 90/10. *100G SWDM4

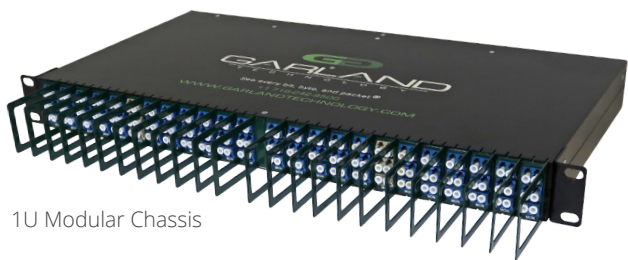
Passive Replication Network TAPs

1G/10G | Splits one single-mode, full duplex input to three outputs



Portable

- Replicate any network traffic
- Portable, Plug & Play
- Easy configuration, no power required
- Supports jumbo frames
- Optional one or two segment configurations per module
- Passes physical errors
- 100% secure and transparent, no IP address, No MAC address; cannot be hacked
- Tested and Certified



1U Modular Chassis



1U Chassis



| Model # | Network Speed | Ports | Network | Monitor | # of TAPs | Split Ratio* | Wavelengths | Media | Connector/ Mode |
|------------|-----------------------|-------|--|---------|-----------|----------------|-------------|-----------|----------------------------|
| RMP-1U | | | 1U Rack Mount Kit - Hold up to 4 Modules, each Module can have 1, 2, 3 or 4 TAPs | | | | | | |
| OS23321X3 | 1G/10Gbps | | 1 LC | 3 LC | 1 | 33.3/33.3/33.3 | 1310/1550nm | Fiber-OS2 | Fiber LC Single-Mode Fiber |
| OS23341X3 | 1G/10Gbps | | 1 LC | 3 LC | 2 | 33.3/33.3/33.3 | 1310/1550nm | Fiber-OS2 | Fiber LC Single-Mode Fiber |
| OS23361X3 | 1G/10Gbps | | 1 LC | 3 LC | 3 | 33.3/33.3/33.3 | 1310/1550nm | Fiber-OS2 | Fiber LC Single-Mode Fiber |
| OS233211X3 | 1G/10Gbps | | 1 LC | 3 LC | 21 | 33.3/33.3/33.3 | 1310/1550nm | Fiber-OS2 | Fiber LC Single-Mode Fiber |
| FMC-1U | Fiber Modular Chassis | | | | | | | | |
| OS23321X3M | 1G/10Gbps | | 1 LC | 3 LC | 2 | 33.3/33.3/33.3 | 1310/1550nm | Fiber-OS2 | Fiber LC Single-Mode Fiber |

Copper Network TAP

10M/100M or 10/100/1000M (1G) | Portable




- Failsafe design
- Link failure propagation
- Supports jumbo frame
- Portable, Plug & Play units for on-the-go trouble shooting
- 1U rack mount kit holds up to 4 modules, each module can have 1, 2, 3, or 4 TAPs
- Noiseless operation. No moving parts.
- Easy configure; switches on back
- PoE (Power over Ethernet)
- Tested and Certified



RMP-1U



| Model # | Network Speed | Chassis Size | # of TAPs | Passive | Power | Serial Port | Media | Connector/Mode |
|---------|---|--------------|-----------|---|-------|-------------|--------|----------------|
| RMP-1U |  | | | 1U Rack Mount Kit - Holds up to 4 Portable TAPs | | | | |
| PT100* | 10/100M | Portable | 1 | Yes | AC | No | Copper | Copper - RJ45 |
| P1GCCB* | 10/100/1000M (1G) | Portable | 1 | Failsafe Design | AC | No | Copper | Copper - RJ45 |

*Supports Power over Ethernet (PoE)

| Model # | Network Speed | Media | | Modes | | | |
|------------|---------------|------------------|---------|----------|-------------|--------------|--------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass |
| INT1G10CSA | 10/100/1000M | 4 Copper - RJ-45 | 2 SFP | Yes | Yes | Yes | No |

| Model # | Network Speed | Media | | Modes | | | | Packet Injection Support |
|---------|---------------|----------------|----------------|----------|-------------|--------------|--------|--------------------------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass | |
| P1GCCAS | 10/100/1000M | 2 Copper RJ-45 | 2 Copper RJ-45 | Yes | Yes | Yes | No | No |

| Model # | Network Speed | Media | | Modes | | | | Packet Injection Support | PoE Support |
|-------------|---------------|---------------|---------------|----------|-------------|-------------------|--------|--------------------------|-------------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration/SPAN | Bypass | | |
| P1GCCBP | 100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | Yes | No |
| P1GCCBPPOE+ | 100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | Yes | Yes |

Copper Modular Network TAP

10/100M and 10/100/1000M | 1U or 2U 1G Modular Chassis



1U Chassis

- 1U or 2U Data Center Solutions for 1G networks
- Dual AC or DC internal power supplies per Chassis
- Exclusive high density 1U = 4 TAPS | 2 U = 12 TAPS
- Remote management option with CLI or GUI
- Hot swappable
- Link failure propagation (LFP)
- Supports jumbo frames
- Flexible design - accommodates any 1G network scenario
- Scalable design - add modules as needed
- Tested and Certified



2U Chassis



Remote Access



| 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 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.

| Copper 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 Sync with Fail Safe |

*Supports Power over Ethernet (PoE)

Military-Grade Industrial Network TAPs

10/100/1000M | Modular Portable Chassis | Breakout Mode



- Supports link speed synchronization
- Supports breakout mode
- Connectivity to copper ports
- Supports jumbo frames
- 1U rack mount holds up to two portable TAPs
- Passes physical errors
- Captures full duplex traffic up to 2Gbps without dropping packets
- 100% secure and transparent, no IP address, No MAC address; cannot be hacked
- Tested and Certified



| Model # | Network Speed | Media | | Modes | | | |
|------------------|---|--------------------------------|--------------------------------|----------|-------------|--------------|----------------------------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Link Speed Synchronization |
| M1GP1G-DC | Two slot Chassis - Holds up to 2 Modular TAPs | | | | | | |
| | Single external DC power supply unit | | | | | | |
| M100CCBm | 10/100M | 2 Mighty Mouse 10/100Mbps | 2 Mighty Mouse 10/100Mbps | Yes | No | No | Yes |
| M1GCCBm | 10/100/1000M | 2 Mighty Mouse 10/100/1000Mbps | 2 Mighty Mouse 10/100/1000Mbps | Yes | No | No | No |

2 Aggregator Network TAPs

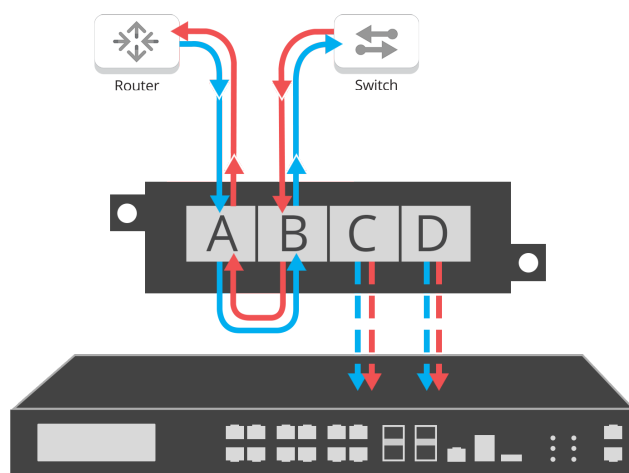
Garland Technology's full line of Aggregator and Regeneration Test Access Points (TAPs) are used to capture full-duplex network traffic where it can be sent to multiple monitoring appliances, providing the visibility required to efficiently manage today's most complex network infrastructures.

- 100% network visibility
- 100% secure and invisible; no IP address; no Mac address; cannot be hacked
- Media Conversion for:
 - Fiber 1G (SX, LX to copper/SFP)
- Copper TAPs in 10M/100M or 10/100/1000M (1G)
- Supports aggregation, tap 'breakout,' regeneration/SPAN, or bypass mode
- Portable, plug & play units, 1U or 2U chassis systems, or 1U modular system

APPLICATIONS

- Aggregation mode: Capture 100% full duplex traffic for multiple monitoring appliances or to a single monitoring port
- Tap "Breakout" mode: Use for full utilization to capture 100% traffic
- Regeneration/SPAN mode: Replicate network traffic to three ports
- TAP once: Test and validate in-band security appliances off line then deploy out-of-band (Universal TAPs only)
- TAP once and send to multiple monitoring devices
- Capture full duplex traffic from both directions
- Out-of-band monitoring

Network Flow



Aggregation Mode


UniversalTAP™: Copper Aggregator

100M/1G | Portable | Aggregation, Breakout, Regeneration, and Bypass



- Supports: aggregation, regeneration, tap "breakout," bypass
- Plug & Play; easy configuration; switches on back
- Use alone, or fit 4 portables into a rack mount kit
- Supports link failure propagation (LFP)
- Supports jumbo frames and passes physical errors
- Supports packet injection in aggregation mode
- Power over Ethernet (PoE) optional
- Noiseless, no fans
- FPGA Design
- Tested and Certified



| Model # | Network Speed | Media | | Modes | | | | Packet Injection Support | PoE Support |
|-------------|---|---------------|---------------|---|-------------|-----------------------|--------|--------------------------|-------------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration/ SPAN | Bypass | | |
| RMP-1U |  | | | 1U Rack Mount Kit - Holds up to 4 Portable TAPs | | | | | |
| P1GCCBP | 100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | Yes | No |
| P1GCSBP | 100/1000M | 2 Copper-RJ45 | 2 SFP | Yes | Yes | Yes | Yes | Yes | No |
| P1GCCBPPOE+ | 100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | Yes | Yes |
| P1GCSBPPOE+ | 100/1000M | 2 Copper-RJ45 | 2 SFP | Yes | Yes | Yes | Yes | Yes | Yes |

UniversalTAP™: 10G Modular Aggregator

10G | 1U Chassis | Aggregation, Breakout, Regeneration, and Bypass



- Supports: aggregation, regeneration, tap "breakout," bypass
- 10G Media Conversion: to SR, LR and ER
- Monitor four inline appliances with fail over assurance
- Supports jumbo frames, packet injection, link failure propagation
- 1U chassis system supports up to 4 TAPs
- Configure and manage remotely or locally
- Field programmable TAP modules
- Tested and Certified



| Chassis System | | | | | | | | |
|----------------|---|----------------------|---------------------------|--------------|----------|-------------|--------------|--------|
| Model # | Description | | | | | | | |
| M10G1ACv2 | 10G-1U Chassis System: Supports up to 4 modular Bypass TAPs. Dual internal AC power supplies. Voltage: 90 - 264 Volts | | | | | | | |
| M10G1DCv2 | 10G-1U Chassis System: Supports up to 4 modular Bypass TAPs. Dual internal DC power supplies. Voltage: 36 - 75 Volts | | | | | | | |
| Model # | Network Speed | Bypass TAP Module | Media | | Modes | | | |
| | | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass |
| M10GMSBPv2 | 10G | SR Multi-mode Fiber | 2 SR Multi-mode, LC-Fiber | 2 SFP+ Cages | Yes | Yes | Yes | Yes |
| M10GSSBPv2 | 10G | LR Single mode Fiber | 2 LR Single mode LC-Fiber | 2 SFP+ Cages | Yes | Yes | Yes | Yes |
| M10GESBPv2 | 10G | ER Single mode Fiber | 2 ER Single mode LC-Fiber | 2 SFP+ Cages | Yes | Yes | Yes | Yes |

UniversalTAP™: 1G Modular Aggregator

1G | 1U/2U | Aggregation, Breakout, Regeneration, and Bypass



1U Chassis

- 1U or 2U Data Center Solutions for 1G networks
- Exclusive high density 1U = 4 TAPS | 2 U = 12 TAPS
- Remote management option with CLI or GUI
- Hot swappable
- Link failure propagation (LFP)
- Supports jumbo frames
- Flexible design - accommodates any 1G network scenario
- Scalable design - add modules as needed
- Tested and Certified



2U Chassis



Remote Access



| 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 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.

| Aggregator 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 |

AggregatorTAP: Fiber

1G | Portable | Aggregation, Regeneration, and Breakout



- Media conversion: SX or LX to copper or SFP
- Supports: aggregation, regeneration/SPAN, tap "breakout" mode
- Plug & Play; easy configuration; switches on back of TAP
- Use alone, or fit 4 portables into a rack mount kit
- Supports jumbo frames and passes physical errors
- Tested and Certified



RMP-1U



| Model # | Network Speed | Media | | Modes | | | |
|---------|---------------|---|------------------|----------|-------------|--------------|--------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass |
| RMP-1U | | 1U Rack Mount Kit - Holds up to 4 Portable TAPs | | | | | |
| P1GMCA | 1G | 2 SX Multi-mode Fiber - LC | 2 Copper - RJ-45 | Yes | Yes | Yes | No |
| P1GMSA | 1G | 2 SX Multi-mode Fiber - LC | 2 SFP | Yes | Yes | Yes | No |
| P1GSCA | 1G | 2 LX Single-mode Fiber-LC | 2 Copper - RJ-45 | Yes | Yes | Yes | No |
| P1GSSA | 1G | 2 LX Single-mode Fiber-LC | 2 SFP | Yes | Yes | Yes | No |

AggregatorTAP: 100Base-FX

100BASE-FX | Portable | Aggregation, Regeneration, and Breakout



- Media conversion; 100Base-FX to copper
- Portable, Plug & Play
- Easy configuration; switches on back of TAP
- Supports: aggregation, regeneration/SPAN, tap "breakout" mode
- Supports jumbo frames, passes physical errors
- 1U rack mount holds up to four portable TAPs
- A & B live network ports are passive, zero interruption if network is powered up or down
- 100% secure and transparent, no IP address, No MAC address; cannot be hacked
- Tested and Certified



RMP-1U



| Model # | Media | | Modes | | | |
|----------|---|---------------------------------------|----------|-------------|--------------|--------|
| | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass |
| RMP-1U | 1U Rack Mount Kit - Holds up to 4 Portable TAPs | | | | | |
| P100FXCA | 100Base-FX | 2 Copper - RJ-45 100/1000M (1Gbps) | Yes | Yes | Yes | No |

AggregatorTAP: Passive

100M | Portable | Aggregation and Power over Ethernet (PoE)



- Passive 100M
- Two (2) 1G Aggregated Monitoring ports
- Aggregation-mode only TAP
- Supports Power over Ethernet (PoE)
- Portable, plug and play design
- Supports jumbo frames and passes physical errors
- Single external power supply
- Tested and Certified



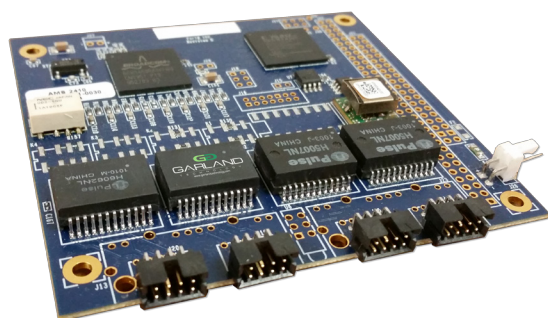
RMP-1U



| Model # | Network Speed | Media | | Modes | | | |
|---------|---------------|----------------|----------------------|---|-------------|--------------|--------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass |
| RMP-1U | | | | 1U Rack Mount Kit - Holds up to 4 Portable TAPs | | | |
| P100CCA | 100M | 2 Copper RJ-45 | 2 Copper 1000M RJ-45 | No | Yes | Yes | No |

AggregatorTAP: Passive

100M | Stack Design | Aggregation and Power over Ethernet (PoE)



- Passive 100M
- Two (2) 1G Aggregated Monitoring ports
- Aggregation-mode only TAP
- Supports Power over Ethernet (PoE)
- Supports jumbo frames and passes physical errors
- Stack design with board-to-board connectors
- Media: Dual-row, 8 circuits, copper alloy base, gold flashed
- Single external power supply
- Tested and Certified



| Model # | Network Speed | Media | | Modes | | | |
|---------|---------------|---------|---------|----------|-------------|--------------|--------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass |
| PC104 | 100M | 2-PCB | 2-PCB | No | Yes | Yes | No |

AggregatorTAP: Copper

10/100/1000M (1G) | Portable | Aggregation, Regeneration, and Breakout




- Passive, listen only for monitoring devices
- No Packet Injection
- Supports Link Speed Synchronization
- Supports: aggregation, regeneration/SPAN, tap "breakout" mode
- Plug & Play; easy configuration; switches on back
- Use alone, or fit 4 portables into a rack mount kit
- Tested and Certified



RMP-1U



| Model # | Network Speed | Media | | Modes | | | | Packet Injection Support |
|---------|---|----------------|---|----------|-------------|--------------|--------|--------------------------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass | |
| RMP-1U |  | | 1U Rack Mount Kit - Holds up to 4 Portable TAPs | | | | | |
| P1GCCAS | 10/100/1000M | 2 Copper RJ-45 | 2 Copper RJ-45 | Yes | Yes | Yes | No | No |
| P1GCSAS | 10/100/1000M | 2 Copper RJ-45 | 2 SFP | Yes | Yes | Yes | No | No |

AggregatorTAP: Copper High Density

1G | 1U | Aggregation, Regeneration, and Breakout



- 1U High Density Solution: TAP up to 4 network segments; Aggregate traffic to 1 or 2 monitoring ports; Can fit to 2 INT1G10CSA units in 1U space
- Supports: aggregation, regeneration/SPAN, tap "breakout" mode
- Link speed synchronization
- Link failure propagation (LFP)
- Supports jumbo frames and passes physical errors
- Tested and Certified.



RMP-1U



| Model # | Network Speed | Media | | Modes | | | |
|------------|----------------------------------|------------------|---------|----------|-------------|--------------|--------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass |
| RMP-1U | 1U Rack Mount Plate Kit Included | | | | | | |
| INT1G10CSA | 10/100/1000M | 4 Copper - RJ-45 | 2 SFP | Yes | Yes | Yes | No |

3

XtraTAP™: All-In-1

Filtering Network TAPs

Garland Technology's Filtering Test Access Points (TAPs) ensure that monitoring ports do not become oversubscribed with unneeded data by filtering through the packets and traffic not needed, ultimately providing the visibility required to efficiently manage the most complex network infrastructures.

The modular packet broker chassis system features a flexible and scalable design to meet your network needs today and tomorrow.

- Scalable Modular TAPs System:
 - 2U holds up to 12 TAPs - backplane filtering within TAP row
 - 1U holds up to 4 TAPs - backplane filtering between TAPs
- Management Options: Ethernet with GUI - and - Serial with CLI controller
- Dual internal AC or DC power supplies
- TAP modules are hot swappable, fully configurable and interchangeable
- 100% secure and invisible; no IP address, no MAC address; cannot be hacked

APPLICATIONS

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

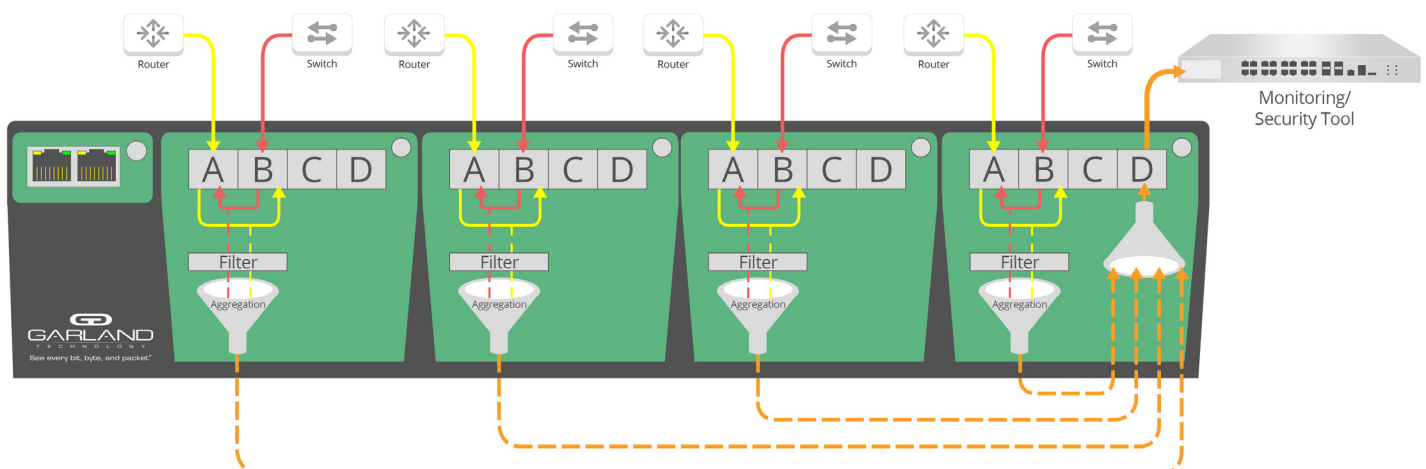
MEDIA CONVERSION:

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

FILTERS:

- Port Mapping of layers 2, 3, and 4.
- Filterings: MAC, VLAN, IP, DSCP, TCP, UDP
- Protocol: HTTP, VoIP, FTP
- VLAN ID

Network Flow



XtraTAP™: All-In-1

1G | Portable | Filtering, Breakout, Aggregation, and Regen | Remote Management



P1GCCFE

- Easy remote access and management with GUI/CLI card
- Set utilization alerts to avoid oversubscription
- Filter and aggregate to monitoring/analyzer tools
- Supports filtering, tap "breakout," aggregation and regeneration/SPAN modes
- Copper TAPs support Link Speed Synchronization
- 100% secure and invisible; no IP address, no MAC address; cannot be hacked.
- Supports Jumbo frames
- 1U rack mount holds up to 4 portable TAPs
- Tested and Certified



RMP-1U



| Model # | Network Speed | Network | Monitor |
|---------|---------------|--|---------------|
| RMP-1U | | 1U Rack Mount Kit - Hold up to 4 Portable TAPs | |
| P1GCCFE | 10/100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 |
| P1GCSFE | 10/100/1000M | 2 Copper-RJ45 | 2 SFP |
| P1GMCFE | 1G | 2 SX Multi-mode | 2 Copper-RJ45 |
| P1GMSFE | 1G | 2 SX Multi-mode | 2 SFP |
| P1GSCFE | 1G | 2 LX Single-mode | 2 Copper-RJ45 |
| P1GSSF | 1G | 2 LX Single-mode | 2 SFP |

XtraTAP™: All-In-1 Modular

1G | Portable | Filtering, Breakout, Aggregation, and Regen | Remote Management



1U Chassis

- 1U or 2U Data Center Solutions for 1G networks
- Exclusive high density 1U = 4 TAPS | 2 U = 12 TAPS
- Remote management option with CLI or GUI
- Supports filtering, tap "breakout," aggregation and regeneration/SPAN modes
- Hot swappable
- Link failure propagation (LFP)
- Supports jumbo frames
- Flexible design - accommodates any 1G network scenario
- Scalable design - add modules as needed
- Tested and Certified



2U Chassis



Remote Access



| 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 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.

| Filtering TAP options | | | | | | | | | |
|-----------------------|---------------|------------------------------------|---------------|----------|-------------|-------------------|-----------|--------|----------------------------|
| Model # | Network Speed | Media | | Modes | | | | | Link Speed Synchronization |
| | | Network | Monitor | Breakout | Aggregation | Regeneration/SPAN | Filtering | Bypass | |
| M1GCCF | 10/100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | No | Yes |
| M1GCSF | 10/100/1000M | 2 Copper-RJ45 | 2 SFP | Yes | Yes | Yes | Yes | No | Yes |
| M1GMCF | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | No | No |
| M1GMSF | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 SFP | Yes | Yes | Yes | Yes | No | No |
| M1GSCF | 1G | 2 LX Single-mode, passive LC-Fiber | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | No | No |
| M1GSSF | 1G | 2 LX Single-mode, passive LC-Fiber | 2 SFP | Yes | Yes | Yes | Yes | No | No |



EdgeSafe™

Bypass Network TAPs

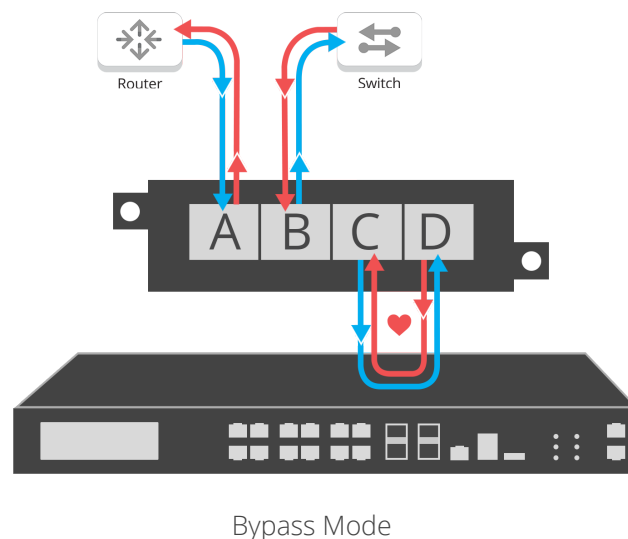
The First Line of Defense is Complete Network Visibility Truth.

Unlike SPAN ports, Bypass TAPs provide complete network visibility, by passing all live wire data to active, inline security tools, while monitoring the device's health. If your security tool goes off-line, the bypass TAP automatically 'switches to bypass mode' keeping your network link up while you resolve the issue. Garland Technology knows security; Jerry Dillard, Garland's CTO, invented the Bypass TAP leading to Garland's EdgeSafe™ Bypass TAPs and EdgeLens® Inline Security Packet Broker with failsafe technology that guarantees 100% network uptime and lets your security tools see every bit, byte, and packet.®

APPLICATIONS •

- TAP once and connect one primary and one back up in-band appliance and two out-of-band monitoring appliances
- Take your inline appliance off-line without interrupting data traffic for: updates, maintenance and troubleshooting
- Network security and monitoring of inline appliances
- Media conversion for fiber, SR, LR, and ER
- Monitor 4 inline appliance with fail over assurance
- Supports breakout, aggregation, regeneration, and bypass modes
- High availability when network downtime is not an option

Network Flow •



For Inline Security Packet Broker with Bypass functionality, please see Hybrid NPBs for the EdgeLens®

EdgeSafe™: Bypass Network TAP

1G | Portable | Failsafe | Remote management or manual programming




- Supports bypass, tap "breakout," aggregation and regeneration/SPAN modes
- Network Failsafe Technology
- Supports: Copper RJ45, SFP, LC - single and multi-mode
- Plug and Play, no configuration
- Use alone, or fit 4 portables in a 1U rack mount kit
- Bypass TAP Invented by Jerry Dillard, CTO and Co-Founder
- Power over Ethernet (PoE) optional
- Tested and Certified



RMP-1U



| Model # | Network Speed | Network | Monitor | Packet Injection Support |
|--------------------|---|----------------------------|---|--------------------------|
| RMP-1U |  | | 1U Rack Mount Kit - Holds up to 4 Portable TAPs | |
| Remote Management | | | | |
| P1GCCBPE | 100/1000M | 2 Copper RJ-45 | 2 Copper-RJ45 | Yes |
| P1GCSBPE | 100/1000M | 2 Copper RJ-45 | 2 SFP | Yes |
| P1GCCBPPOE+E | 100/1000M | 2 Copper RJ-45 | 2 Copper RJ-45 | Yes |
| P1GCSBPPOE+E | 100/1000M | 2 Copper RJ-45 | 2 SFP | Yes |
| P1GMCBPE | 1G | 2 SX Multi-mode | 2 Copper RJ-45 | Yes |
| P1GMSBPE | 1G | 2 SX Multi-mode | 2 SFP | Yes |
| P1GSCBPE | 1G | 2 LX Single-mode | 2 Copper-RJ45 | Yes |
| P1GSSBPE | 1G | 2 LX Single-mode | 2 SFP | Yes |
| Manual Programming | | | | |
| P1GCCBP | 100/1000M | 2 Copper-RJ45 | 2 Copper -RJ45 | Yes |
| P1GCSBP | 100/1000M | 2 Copper-RJ45 | 2 SFP | Yes |
| P1GCCBPPOE+ | 100/1000M | 2 Copper-RJ45 | 2 Copper -RJ45 | Yes |
| P1GCSBPPOE+ | 100/1000M | 2 Copper-RJ45 | 2 SFP | Yes |
| P1GMCBP | 1G | 2 SX Multi-mode, Fiber-LC | 2 Copper -RJ45 | Yes |
| P1GMSBP | 1G | 2 SX Multi-mode, Fiber-LC | 2 SFP | Yes |
| P1GSCBP | 1G | 2 LX Single-mode, Fiber-LC | 2 Copper -RJ45 | Yes |
| P1GSSBP | 1G | 2 LX Single-mode, Fiber-LC | 2 SFP | Yes |

EdgeSafe™: Integrated Bypass Network TAP

1G | 1U Chassis | High Availability Solution



- 6 Port High Availability (HA) solution; TAP once and connect one primary and one back up inline appliance and two out-of-band monitoring appliances
- Supports: Copper RJ-45 and short and long range fiber (SX, LX, ZX)
- Dual internal power supplies
- High Availability solution in 1U design
- Media conversion: Fiber to Copper
- Bypass TAP Invented by Jerry Dillard, CTO and Co-Founder
- Tested and Certified



| Model # | Network Speed | Media | | Modes | | | |
|------------|---------------|----------------------------|---------------|--------------|-------------|--------------|------------|
| | | Network | Monitor | Breakout | Aggregation | Regeneration | Bypass |
| INT1G8CCBP | 1G | 2 Copper-RJ45 | 6 Copper-RJ45 | Ports CDEFGH | GH | No | Ports CDEF |
| INT1G8SCBP | 1G | 2 LX Single-mode, LC-Fiber | 6 Copper-RJ45 | Ports CDEFGH | GH | No | Ports CDEF |
| INT1G8MCBP | 1G | 2 SX Multi-mode, LC-Fiber | 6 Copper-RJ45 | Ports CDEFGH | GH | No | Ports CDEF |

EdgeSafe™: 1G Bypass Modular Network TAP

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



1U Chassis

- Ideal for data centers and media conversion
- 1U holds up to 4 TAPS; 2U holds up to 12 TAPS
- Remote management option with CLI or GUI
- Hot swappable
- Supports: Copper RJ-45 and short and long range fiber (SX, LX, ZX)
- Supports bypass, tap "breakout," aggregation and regeneration/SPAN modes
- Flexible design - accommodates any 1G network scenario
- Scalable design - add modules as needed
- Tested and Certified



2U Chassis



Remote Access



| 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 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 | | |
| 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 |

EdgeSafe™: 10G Bypass Modular Network TAP

10G | 1U Chassis | Scalable design with media conversion



- Monitor four inline security appliances with fail over assurance
- Dual internal power supplies
- TAP modules are field upgradable
- Guarantee network uptime for 4 inline appliances with fail over and dual internal power supplies.
- Media conversion for fiber: SR, LR and ER
- Bypass TAP Invented by Jerry Dillard, CTO and Co-Founder.
- Tested and Certified



1U Chassis



| Model # | Description | | | | | | | |
|------------|---|----------------------|---------------------------|--------------|----------|-------------|-----------------------|--------|
| M10G1ACv2 | 10G-1U Chassis System: Supports up to 4 modular Bypass TAPs. Dual internal AC power supplies. Voltage: 85 - 264 Volts, 100 Watt total power consumption with 4 TAPs | | | | | | | |
| M10G1DCv2 | 10G-1U Chassis System: Supports up to 4 modular Bypass TAPs. Dual internal DC power supplies. Voltage: 36 - 72 Volts; 100 Watt total power consumption with 4 TAPs | | | | | | | |
| Model # | Network Speed | Bypass TAP Module | Media | | Modes | | | |
| | | | Network | Monitor | Breakout | Aggregation | Regeneration/ SPAN | Bypass |
| M10GMSBPv2 | 10G | SR Multi-mode Fiber | 2 SR Multi-mode, LC-Fiber | 2 SFP+ Cages | Yes | Yes | Yes | Yes |
| M10GSSBPv2 | 10G | LR Single mode Fiber | 2 LR Single mode LC-Fiber | 2 SFP+ Cages | Yes | Yes | Yes | Yes |
| M10GESBPv2 | 10G | ER Single mode Fiber | 2 ER Single mode LC-Fiber | 2 SFP+ Cages | Yes | Yes | Yes | Yes |

*Theoretical distance - defined as half a distance as stated by the IEEE 802.3 standard.

EdgeSafe™: 40G Bypass Modular Network TAP

40G/10G | 1U Chassis | Scalable design with media conversion



- TAP any 10G links and convert to SR, LR, or, ER
- TAP both 40G-SR4, and 40G-LR Links
- Configurable Heartbeat Packets and Heartbeat resolution
- Supports both Local and remote management
- Support for packet injection, jumbo frames, link failure propagation with TACACS, SNMP and Syslog
- Tested and Certified



| Model # | Description | | | | | | | |
|-----------|---|----------------------|----------------------------|---------------|----------|-------------|-------|--------|
| M40G1AC | 40G/10G-1U Chassis System: Supports up to 3 modular Bypass TAPs. Dual internal AC power supplies. | | | | | | | |
| Model # | Network Speed | Bypass TAP Module | Media | | Modes | | | |
| | | | Network | Monitor | Breakout | Aggregation | Regen | Bypass |
| M40GMSBP | 40G | SR Multi-mode Fiber | 2 SR4 Multi-mode, MTP12 | 2 QSFP+ Cages | Yes | Yes | Yes | Yes |
| M40GSSBP | 40G | LR Single mode Fiber | 2 LR4 Single mode LC-Fiber | 2 QSFP+ Cages | Yes | Yes | Yes | Yes |
| M10GMS2BP | 10G | SR Multi-mode Fiber | 4 SR Multi-mode, LC-Fiber | 4 SFP+ Cages | Yes | Yes | Yes | Yes |
| M10GSS2BP | 10G | LR Single mode Fiber | 4 LR Single mode LC-Fiber | 4 SFP+ Cages | Yes | Yes | Yes | Yes |



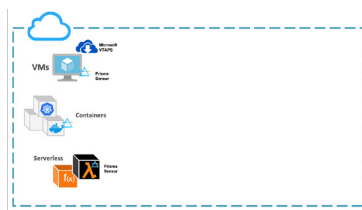
Cloud

Cloud Packet Visibility

Network Packet Visibility for Public Cloud Environment

Prisms is the most advanced, easiest, and most affordable solution to get cloud packets to monitoring tools and services. Prisms allows organizations to access, process and deliver packet-level traffic from VMs and containers in any public cloud. Our next generation agent technology sends processed packet traffic to your tools and services both in-cloud and off-cloud.

With Prisms, customers activate and run the tools of their choice to gain the critical visibility and control they need. Prisms allows organizations to accelerate their cloud transformations with clarity and confidence.

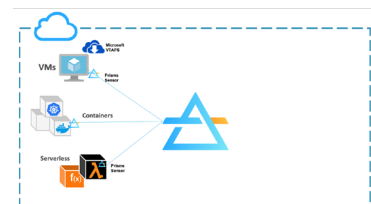


Acquire

Acquire packet traffic from any cloud source. Solve agent sprawl with a single, scalable sensor for all your cloud tools

Capture, see, send and orchestrate packets from:

- Cloud provider infrastructure like agentless Azure VTAPs and VxLAN devices like cloud firewalls and routers.
- Cloud workloads like VMs, containers, and soon PaaS
- North - South and East - West packets
- Inter- and intra- cloud packets

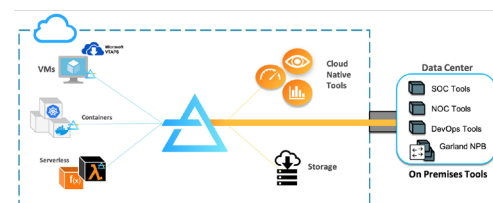


Process

Advanced Packet Processing Filters, Prepares & Optimizes Replicated Streams

Prisms' Service Processor (PSP) is an elastic processing engine that prepares packet streams for distribution to your tool destinations.

The PSP is container-based and infinitely scalable. It sits inside your own cloud subscription which maximizes security while minimizing impact on resources and exit charges.



Distribute

Distribute processed cloud packet traffic to any IP address – in the cloud or off-cloud

Distribute cloud packet traffic to any team, tool or process you require. Replicate the same source packet stream to multiple destinations to save cost, compute overhead and management strain.

Replicate full packet streams for storage, monitoring and compliance or use advanced sampling to send the heartbeat of your cloud to your teams and tools.



PacketMAX™

Advanced Aggregator and Advanced Features

Garland Technology's PacketMAX™: Advanced Aggregators are devices designed to increase efficiency and port utilization of network packet brokers. Aggregators improve ROI by reducing the total cost of a network visibility fabric and increasing the efficiency of existing infrastructure.

APPLICATIONS

- Aggregation of multiple TAP/SPAN ports for increased utilization
- Connect to Network Packet Broker or directly to tools
- High Density filtering, aggregation and load balancing
- Aggregation solution for large and medium size data centers
- Aggregation for enterprise and service provider networks

Garland Technology's PacketMAX™: Advanced Features, is designed as a standalone platform to extend the feature set of any product. The system is designed to support large window deduplication, packet slicing and time stamping. Deduplication and packet slicing can significantly reduce the processing overhead from security or monitoring tools.

APPLICATIONS

- Extend the feature set of Garland's Advanced Aggregators or any existing infrastructure
- Reduce the load to security or monitoring tools by removing duplicate packets introduced by SPAN ports
- Reduce the volume of traffic by keeping only important header information
- Add time stamps to any or all packets for increased understanding of latency and distortions within the visibility fabric
- Extending the life of existing security and monitoring tools by reducing traffic volume

PacketMAX™: 1G Advanced Aggregator

1G/10G | 1U Chassis | 52 Port | Filtering, Aggregation, and Load Balancing



FILTER HIGHLIGHTS:

- User defined filters for Layer 2, 3, and 4
- IPv4/IPv6, MAC, L4Port, VLAN, Ethertype, IP protocol
- Supports GRE Tunneling and Termination
- Supports VLAN stripping, QinQ support
- Full line rate filtering
- Packet modification

- Aggregate traffic to a single or multiple tools (1:1, 1:N, N:1, N:N)
- Supports 10M/100M/1G/10G network speeds
- OpenFlow/SDN enabled
- Start and Terminate GRE Tunnels and VXLAN Tunnels
- Up to 52 fully supported ports - no additional per-port license fees
- Supports jumbo frames
- Hot swappable, dual AC power supplies

- 1k filters
- Session/flow aware load balancing
- Configurable hash-based load balancing
- Flow replication and port mirroring
- Data burst buffering
- Management through GUI, and SNMP



| Model # | Ports | Network Speed | 1G Ports | 10G Ports | Power * | Watts |
|----------|-------|---------------|-----------|-----------|---------------------------------|-------|
| AA1G52AC | | 1/10G | (48) RJ45 | (4) SFP+ | 1+1 redundant AC Power Supplies | 65W |

PacketMAX™: 10G Advanced Aggregator

1G/10G/40G | 1U Chassis | 54 Port | Filtering, Aggregation, and Load Balancing



FILTER HIGHLIGHTS:

- User defined filters for Layer 2, 3, and 4
- IPv4/IPv6, MAC, L4Port, VLAN, Ethertype, IP protocol
- Supports MPLS stripping, single and stacked
- Supports VLAN stripping, QinQ support
- Full line rate filtering
- Packet modification

- Aggregate traffic to a single or multiple tools (1:1, 1:N, N:1, N:N)
- Supports 1G/10G/40G network speeds
- OpenFlow/SDN enabled
- IPv4/IPv6 and UDF Filter support
- Start and Terminate GRE Tunnels
- Start and Terminate VXLAN Tunnels
- Up to 72 fully supported ports - no additional per-port license fees
- Port splitting functionality

- Supports jumbo frames
- Hot swappable, dual power supplies AC standard, DC available
- 1k filters
- Session/flow aware load balancing
- Configurable hash-based load balancing
- Flow replication and port mirroring
- Data burst buffering
- Management through GUI, and SNMP



| Model # | Ports | Network Speed | 10G Ports | 40G Ports | Power | Watts | SNMP/ Syslog Support |
|-----------|-------|---------------|----------------|-----------|-------|-------|----------------------|
| AA10G54AC | | 1G/10G/40G | (48) SFP/SFP+, | (6) QSFP+ | AC | 195 | Yes |
| AA10G54DC | | 1G/10G/40G | (48) SFP/SFP+, | (6) QSFP+ | DC | 195 | Yes |

PacketMAX™: 40G Advanced Aggregator

10G/40G/100G | 1U Chassis | 24 Port | Filtering, Aggregation, and Load Balancing



FILTERS:

- User defined filters for Layer 2, 3, and 4
- IPv4, MAC, L4Port, VLAN, Ethertype, IP protocol
- Supports VXLAN decapsulation/encapsulation
- Supports VLAN Stripping, QinQ support
- Full line rate filtering
- Packet modification

- Aggregate traffic to a single or multiple tools (1:1, 1:N, N:1, N:N)
- Supports 10G/40G/100G network speeds
- IPv4 and UDF Filter support
- Timestamping - Layer 2 Header
- 24 fully supported ports - no additional per-port license fees
- Port splitting functionality
- Supports jumbo frames
- 4,000 filter rules

- Session/flow aware load balancing
- Hash-based load balancing and Round-Robin distribution
- Forward latency, less than 1uscc
- Hot swappable, dual Power Supplies, AC standard, DC available
- Management through CLI, GUI, and SNMP
- RADIUS and TACACS remote user authentication
- sFlow Support



| Model # | Ports | Network Speed | 40G Port | 100G Port | Power Supplies |
|-----------|-------|---------------|------------|------------|----------------|
| AA40G24AC | | 10/40/100G | (20) QSFP+ | (4) QSFP28 | AC |
| AA40G24DC | | 10/40/100G | (20) QSFP+ | (4) QSFP28 | DC |

PacketMAX™: 100G Advanced Aggregator

10G/25G/40G/100G | 1U Chassis | 32 Port | Filtering, Aggregation, and Load Balancing



FILTER HIGHLIGHTS:

- User defined filters for Layer 2, 3, and 4
- IPv4/IPv6, MAC, L4Port, VLAN, Ethertype, IP protocol
- Supports MPLS stripping, single and stacked
- Supports VLAN stripping, QinQ support
- Full line rate filtering
- Packet modification

- Aggregate traffic to a single or multiple tools (1:1, 1:N, N:1, N:N)
- Supports 10G/25G/40G/100G network speeds
- OpenFlow/SDN enabled
- IPv4/IPv6 and UDF Filter support
- Start and Terminate GRE Tunnels
- Start and Terminate VXLAN Tunnels
- 32 fully supported ports - no additional per-port license fees
- Port splitting functionality

- Supports jumbo frames
- Hot swappable, dual power supplies AC standard, DC available
- 1k filters
- Session/flow aware load balancing
- Configurable hash-based load balancing
- Flow replication and port mirroring
- Data burst buffering
- Management through GUI, and SNMP



| Model # | Ports | Network Speed | 40G Port | 100G Port | Power * | Watts | SNMP /Syslog support |
|------------|-------|---------------|------------|-------------|----------|-------|----------------------|
| AA100G32AC | | 10/25/40/100G | (32) QSFP+ | (32) QSFP28 | AC Power | 410 | Yes |
| AA100G32DC | | 10/25/40/100G | (32) QSFP+ | (32) QSFP28 | DC Power | 410 | Yes |

PacketMAX™: 100G 64 Port Advanced Aggregator

10G/25G/40G/100G | 2U Chassis | 64 Port | Filtering, Aggregation, and Load Balancing





FILTERS HIGHLIGHTS:

- User defined filters for Layer 2, 3, and 4
- IPv4/IPv6, MAC, L4Port, VLAN, Ethertype, IP protocol
- Supports MPLS stripping, single and stacked
- Supports VLAN stripping, QinQ support
- Full line rate filtering
- Packet modification

- Aggregate traffic to a single or multiple tools (1:1, 1:N, N:1, N:N)
- Supports 10G/25G/40G/100G network speeds
- OpenFlow/SDN enabled
- Start and Terminate GRE Tunnels
- Start and Terminate VXLAN Tunnels
- 64 fully supported ports - no additional per-port license fees
- Port splitting functionality
- Hot swappable, dual power supplies AC standard, DC available

- Supports jumbo frames
- 1k filters
- Session/flow aware load balancing
- Configurable hash-based load balancing
- Flow replication and port mirroring
- Data burst buffering
- Management through GUI, and SNMP



| Model # | Ports | Network Speed | 40G Port | 100G Port | Power * | Watts | SNMP /Syslog support |
|------------|---|---------------|------------|-------------|----------|-------|----------------------|
| AA100G64AC |  | 10/25/40/100G | (64) QSFP+ | (64) QSFP28 | AC Power | 600 | Yes |
| AA100G64DC |  | 10/25/40/100G | (64) QSFP+ | (64) QSFP28 | DC Power | 600 | Yes |

PacketMAX™: 10G Advanced Features

4x10G | Scalable packet processing system



Solutions:



Garlands AF10G4AC is ideal for:

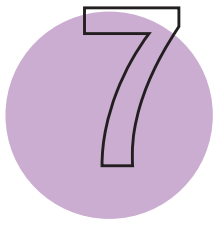
- Adding advanced features to existing equipment
- Supplementing features of new installs

- FPGA Based design for increased flexibility
- Large window deduplication (4M packet window, 250ms for an average size of 256B)
- Additional 1 PPS input for GPS or CDMA receiver used to discipline the PLL
- Timing Options: GPS (via SMA), PPS (via MCX), IEEE-1588/PTP (via RJ45), Optional OCXO

- NTP Time stamping
- 4ns time stamp resolution
- Configurable time stamping format
- Fully configurable packet slicing from 64-9000B
- Intuitive CLI for configuration
- Tested and certified



| Model # | | Network Speed | Ports | Power | Watts |
|----------|---|---------------|----------|---------------------------------|-------|
| AF10G4AC |  | 10G | (4) SFP+ | 1+1 redundant AC power supplies | 135W |
| AF10G4DC |  | 10G | (4) SFP+ | 1+1 redundant DC power supplies | 135W |



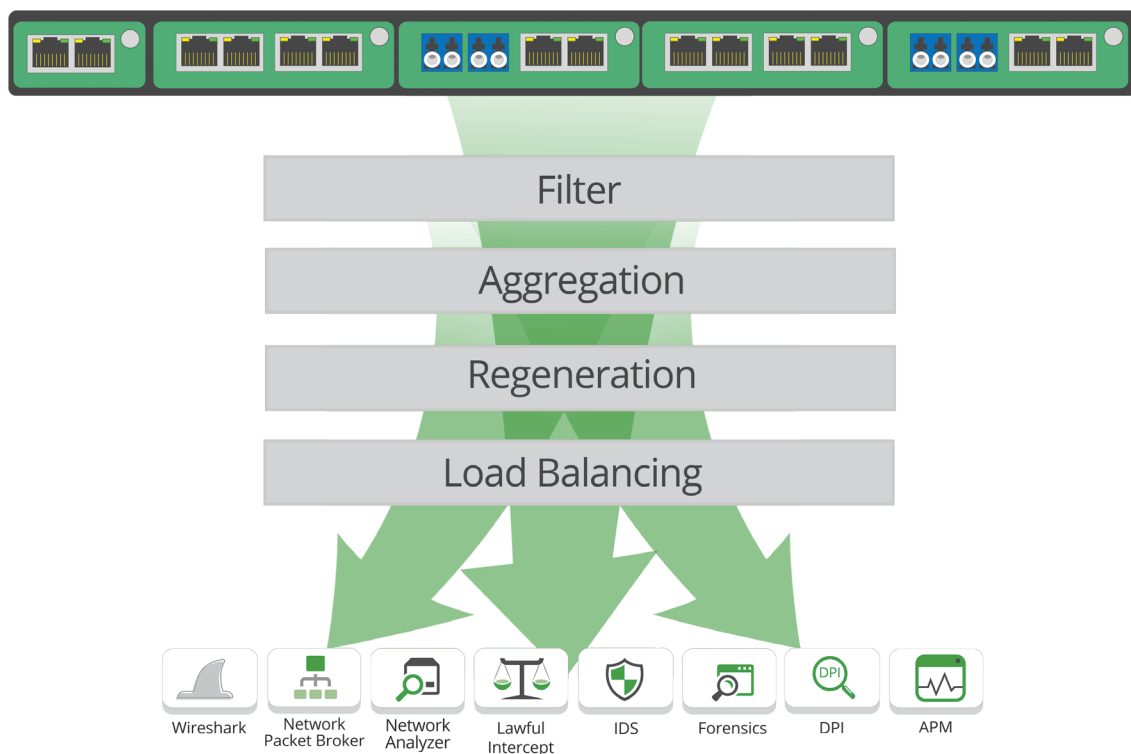
Hybrid Network Packet Brokers with Network TAP Functionality

Garland Technology's Purpose Built Network Packet Brokers (NPBs), the PacketSTAX™ and EdgeLens®, provide access to network traffic from multiple links, helping to centralize and improve efficiencies by sharing packets between the monitoring and security appliances. NPBs centralize network traffic making the tools function more efficiently by sharing packets between monitoring/security appliances. Additional features include: filtering, aggregating, regenerating, and load balancing.

- Available in 1G/10G network speeds
- Modular 1U, 2U Chassis or 1U Integrated Systems
- Supports all media - copper (TX), short range (SX and SR) and long range (LX, ZX, LR, ER) fiber
- Multi-mode or single-mode
- All features are included
- 100% network visibility
- 100% secure and invisible; no IP address; no Mac address; cannot be hacked

APPLICATIONS

- High density solution
- Packet analysis
- Root cause analysis
- Historical lookback
- Validate policy changes
- Remote Management
- Management of inline security tools and out-of-band monitoring tools
- Load balancing for increased bandwidth demands
- EtherChannel (Port Channel Architecture)
- Media Conversion
- Network efficiency; only filter the packets required



PacketSTAX™: Modular Hybrid Packet Broker

1G | 1U/2U Chassis | Port-to-Port Aggregator with Port Mapping Filtering



2U Chassis

- Supports filtering, tap "breakout," aggregation, regeneration/SPAN and bypass modes
- **Scalable Modular TAPs System:**
 - 2U holds up to 12 TAPs - backplane filtering within TAP row
 - 1U holds up to 4 TAPs - backplane filtering between TAPs and port
- **Management and Non-Management options:**
 - Management: CLI/GUI/SSH/HTTP/Telnet
 - Non-management chassis available; (management card can be added)



Remote Access

- **Port Mapping:** filter allows granular selection of network traffic at layers 2, 3 and 4 of the packet to provide monitoring tools only the traffic they are designed (or intended) to inspect
- **Multi-Tier Filtering Supports:** MAC, VLAN, IP, DSCP, TCP, UDP
- SNMP V2c/V3
- 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
- Packet slicing and packet injection (aggregate mode for copper network port TAPs)
- 100% secure and invisible; no IP address, no MAC address; cannot be hacked
- Tested and certified



| 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 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.

| Copper 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 Sync with Fail Safe |

*Supports Power over Ethernet (PoE)

PacketSTAX™: Modular Hybrid Packet Broker

1G | 1U/2U Chassis | Port-to-Port Aggregator with Port Mapping Filtering

| Bypass 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 |
| 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 |
| Filtering TAP options | | | | | | | | | | |
| Model # | Network Speed | Media | | Modes | | | | | Link Speed Synchronization | |
| | | Network | Monitor | Breakout | Aggregation | Regeneration/SPAN | Filtering | Bypass | | |
| M1GCCF | 10/100/1000M | 2 Copper-RJ45 | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | No | Yes | Yes |
| M1GCSF | 10/100/1000M | 2 Copper-RJ45 | 2 SFP | Yes | Yes | Yes | Yes | No | Yes | Yes |
| M1GMCF | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | No | No | No |
| M1GMSF | 1G | 2 SX Multi-mode, passive LC-Fiber | 2 SFP | Yes | Yes | Yes | Yes | No | No | No |
| M1GSCF | 1G | 2 LX Single-mode, passive LC-Fiber | 2 Copper-RJ45 | Yes | Yes | Yes | Yes | No | No | No |
| M1GSSF | 1G | 2 LX Single-mode, passive LC-Fiber | 2 SFP | Yes | Yes | Yes | Yes | No | No | No |
| Aggregator 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 |

EdgeLens® Inline Security Packet Broker

1G/10G | 1U Chassis | Fail-safe | Filtering, Aggregation, and Load Balancing



- Supports filtering, aggregating, load balancing, and regeneration
- TAP a 1G link or 10G link and deliver data to 1G & 10G appliances
- TAP once and connect multiple inline appliances
- Integrated 1U chassis bypass TAP system
- Dual AC hot swappable power supplies
- 1 Management port; 1 Console port
- Heartbeat packet health check
- Network failsafe for active, inline appliances
- Session aware load balancing
- MPLS Header Stripping
- VLAN Tagging and Stripping

FILTERS:

- User defined filters for layer 2, 3, and 4
- MAC, IPv4/IPv6, TCP/UDP, MPLS, and Ethertype
- Protocol: HTTP, VoIP, FTP
- VLAN ID
- User Defined Byte (UDB)
- Ingress and egress filtering



| Model # | Ports | Network Speed | SFP/SFP+ Ports | Bypass TAPs | Power Consumption | Dual Hot Swappable Power Supplies* |
|-------------------|-------|---------------|----------------|---------------------------------------|-------------------|------------------------------------|
| INT10G2SRBP10SFP+ | | 1G/10G | 10 SFP/SFP+ | (1) 1G-SX/10G-SR TAP 2 fiber ports | 115 Watts | AC |
| INT10G2LRBP10SFP+ | | 1G/10G | 10 SFP/SFP+ | (1) 1G-SX/10G-LR TAP 2 fiber ports | 115 Watts | AC |
| INT10G8SRBP16SFP+ | | 1G/10G | 16 SFP/SFP+ | (4) 1G-SX/10G-SR TAP 8 fiber ports | 139 Watts | AC |
| INT10G8LRBP16SFP+ | | 1G/10G | 16 SFP/SFP+ | (4) 1G-SX/10G-LR TAP 8 fiber ports | 139 Watts | AC |

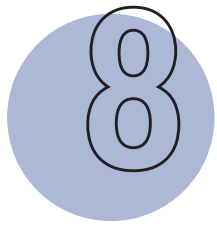
| Power Supply options | |
|----------------------|--|
| PS10-HS-DC | Hot Swappable DC -48vdc Power Supplies |
| PS10-HS-AC | Hot Swappable AC Power Supplies (*Two included with each EdgeLens order) |

(2) Two power supplies are required for each chassis

| Available Pluggables & Cables: | |
|--------------------------------|---|
| Model # | Description |
| SFPTX | SFP 10/100/1000 Copper RJ-45 Connector |
| SFPSX | SFP 1000Base-SX Multi-Mode Fiber LC Connector |
| SFPLX | SFP 1000Base-LX Single Mode Fiber LC Connector |
| SFP+SR | SFP+ Dual Speed 1 Gigabit-SX / 10 Gigabit-SR Multi-Mode Fiber LC Connector |
| SFP+LR | SFP+ Dual Speed 1 Gigabit-LX / 10 Gigabit-LR Single Mode Fiber LC Connector |
| SFP+ER | SFP+ 10Gigabit-ER Single-Mode Fiber LC Connector |
| SFP+SR10 | SFP+ 10Gigabit-SR Multi-Mode Fiber LC Connector - only supports 10G |
| SFP+LR10 | SFP+ 10Gigabit-LR Multi-Mode Fiber LC Connector - only supports 10G |
| TWINAX1M* | Twinax Copper Direct Connect Cable SFP+ 10Gigabit 1 Meter |

*Also available in 5 and 10 meters.





Pluggables and Cables

Management and Connectivity

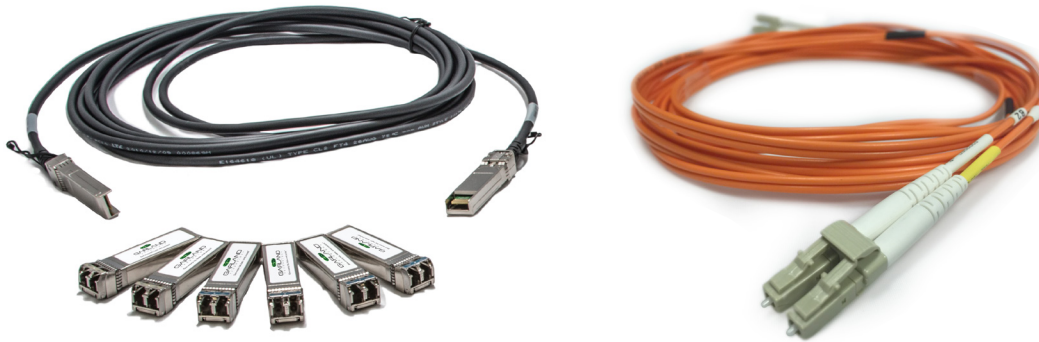
Connect your tools and TAPs to your network with quality made pluggables for copper and fiber optic networks. Garland Technology offers SFP and SFP+ pluggables that support 10/100/1000M copper and 1G, 10G, and 40G. Custom cable lengths are available in 1' and 1m increments.

Pluggable Transceivers



| Pluggable Transceivers | | |
|------------------------|---------------|---|
| Model # | Network Speed | Description |
| SFPTX | 1 Gbps | 1000BASE-TX, SFP 10/100/1000 RJ45 copper |
| SFPSX | 1 Gbps | 1000BASE-SX, SFP Multimode Fiber 850nm |
| SFPLX | 1 Gbps | 1000BASE-LX, SFP Singlemode Fiber 1310nm - 10km |
| SFPEX40km | 1 Gbps | 1000BASE-EX, SFP Singlemode Fiber 1310nm - 40km |
| SFPEX90km | 1 Gbps | 1000BASE-EX, SFP Singlemode Fiber 1550nm - 90km |
| SFP+T | 10 Gbps | 10GBASE-T, SFP+ 100M/1G/10G RJ45 copper |
| SFP+SR | 10 Gbps | 10GBASE-SR, SFP+ Multimode Fiber 850nm (1 or 10G) |
| SFP+LR | 10 Gbps | 10GBASE-LR, SFP+ Singlemode Fiber 1310nm - 10km (1 or 10G) |
| SFP+ER | 10 Gbps | 10GBASE-ER, SFP+ Singlemode Fiber 1550nm - 40km |
| SFP+ZR80 | 10 Gbps | 10GBASE-ZR, SFP+ Singlemode Fiber 1550nm - 80km |
| SFP+SR10G | 10 Gbps | 10GBASE-SR, SFP+ Multimode Fiber 850nm (only supports 10G) |
| SFP+LR10G | 10 Gbps | 10GBASE-LR, SFP+ Singlemode Fiber 1310nm - 10km (only supports 10G) |
| QSFP+40G | 40Gbps | 40GBASE-SR4, QSFP+ Multimode Fiber, MPO/MTP-12 Connector |
| QSFP+40-LR4 | 40Gbps | 40GBASE-LR4, QSFP+ Singlemode Fiber, LC Connector |
| QSFP+10GLR | 40Gbps | 40GBASE-LR Singlemode with MTP/MPO connector for Fan-out Cables |
| QSFP+40GBiDi | 40Gbps | 40GBASE-SR BiDi, QSFP+ Multimode Fiber with LC Connectors |
| QSFP+28SR4 | 100Gbps | 100GBASE-SR4, QSFP+28 Multimode Fiber, MPO/MTP-12 Connector |
| QSFP+28LR4 | 100Gbps | 100GBASE-LR4, QSFP+28 Singlemode Fiber, LC Connector |

Cables



| Twinax / Direct Attach Cables: | |
|---|--|
| Model # | Description |
| TWINAX1M | Twinax Copper Direct Connect Cable SFP+ to SFP+ 10Gigabit, Pre-Cut 1 Meter |
| TWINAX3M | Twinax Copper Direct Connect Cable SFP+ to SFP+ 10Gigabit, Pre-Cut 3 Meter |
| TWINAX5M | Twinax Copper Direct Connect Cable SFP+ to SFP+ 10Gigabit, Pre-Cut 5 Meter |
| TWINAX7M | Twinax Copper Direct Connect Cable SFP+ to SFP+ 10Gigabit, Pre-Cut 7 Meter |
| TWINAX10M | Twinax Copper Direct Connect Cable SFP+ to SFP+ 10Gigabit, Pre-Cut 10 Meter |
| TWINAX40G.5M | Direct Attach Copper Cable QSFP+ to QSFP+ 40Gigabit, Pre-Cut Half Meter |
| TWINAX40G1M | Direct Attach Copper Cable QSFP+ to QSFP+ 40Gigabit, Pre-Cut 1 Meter |
| TWINAX40G2M | Direct Attach Copper Cable QSFP+ to QSFP+ 40Gigabit, Pre-Cut 2 Meter |
| TWINAX40G3M | Direct Attach Copper Cable QSFP+ to QSFP+ 40Gigabit, Pre-Cut 3 Meter |
| TWINAX100G1M | Direct Attach Copper Cable QSFP28 to QSFP28 100Gigabit, Pre-Cut 1 Meter |
| TWINAX100G3M | Direct Attach Copper Cable QSFP28 to QSFP28 100Gigabit, Pre-Cut 3 Meter |
| TWINAX100G5M | Direct Attach Copper Cable QSFP28 to QSFP28 100Gigabit, Pre-Cut 5 Meter |
| Fan-out Cables: QSFP to LC Connections | |
| MTP12F-LC8MOM4_3 | MPO/MTP to 8x 10Gb Multimode Fiber connections with LC connectors, 3 Meters (Cable) |
| MTP12F-LC8MOS2_3 | MPO/MTP to 8x 10Gb Singlemode Fiber connections with LC connectors, 3 Meters (Cable) |
| Breakout Cables: QSFP to 10G SFP+ Connections | |
| QSFP-4SFP+_1 | Direct Attach Copper Cable QSFP+ to 4x 10Gb SFP+, Pre-Cut 1 Meter |
| QSFP-4SFP+_2 | Direct Attach Copper Cable QSFP+ to 4x 10Gb SFP+, Pre-Cut 2 Meter |
| QSFP-4SFP+_3 | Direct Attach Copper Cable QSFP+ to 4x 10Gb SFP+, Pre-Cut 3 Meter |
| Breakout Cables: 100G QSFP28 to 25G SFP28 Connections | |
| QSFP28-4SFP28-Cable_1 | Direct Attach Copper Cable QSFP28 to 4x 25Gb SFP28, Pre-Cut 1 Meter |
| QSFP28-4SFP28-Cable_3 | Direct Attach Copper Cable QSFP28 to 4x 25Gb SFP28, Pre-Cut 3 Meter |

Foundation of.

Visibility

Starts with seeing every bit, byte, and packet®



See every bit, byte, and packet®