

# The FAB Packet Broker System

Monitor & Manage Your Network | 1G/10G/40G | 1U Chassis

Supports Filtering, Aggregating and Load Balancing Integrated System



The FAB Packet Broker System filters, aggregates and load balances your network's traffic for monitoring and management of your out-of-band network tools. This 1U box allows you to aggregate network traffic, load balance at high speeds (1G, 10G, 40G) and connect monitoring tools to multiple segments of your network. Garland's FAB is a full feature, all-in-one device and has no hidden licensing fees.

## Key Features

- Aggregate your network traffic to a single tool
- Load balance at high network speeds across multiple appliances
- Connect tools to multiple network segments
- Any-to-Any configurations: 1Gb, 10Gb, and 40Gb
- All ports can be configured as input ports or monitoring ports
- Remote Syslog, NTP
- Remote network management (RMON) with GUI or CLI interface
- TACACS and RADIUS remote user authentication
- Ingress and egress counters
- Copper SFPs support 10/100/1000 base
- Supports jumbo frames
- AC or DC hot swappable power supplies
- 1 Management port; 1 Console port
- All features are included, there are no per-port licensing fees
- Made in the USA

## Solutions

TAP Multiple 1G/10G links and filter, aggregate and load balance to a single 40G tool.  
Monitor 40G links and filter, aggregate and load balance to multiple 1G or 10G tools.



Wireshark

Network Analyzer

Intrusion Detection System



Application Performance Monitoring

Lawful Intercept



Packet Capture

Data Forensics

## APPLICATIONS:

- High density solution
- Advanced load balancing
- Filtering & Tagging

## FILTERS:

- User definable filters of Layer 2, 3 and 4
- Filters: IPv4/IPv6, L4Port, TCP, UDP, VLAN, MAC, Ethertype, IP Protocol, MPLS labels
- VLAN tag and MPLS header stripping
- Full line rate filtering
- Port locking
- Ingress and egress filtering

## Competitive Edge

- Session aware load balancing
- MPLS heading stripping
- VLAN tagging and stripping
- Remote management with CLI or GUI

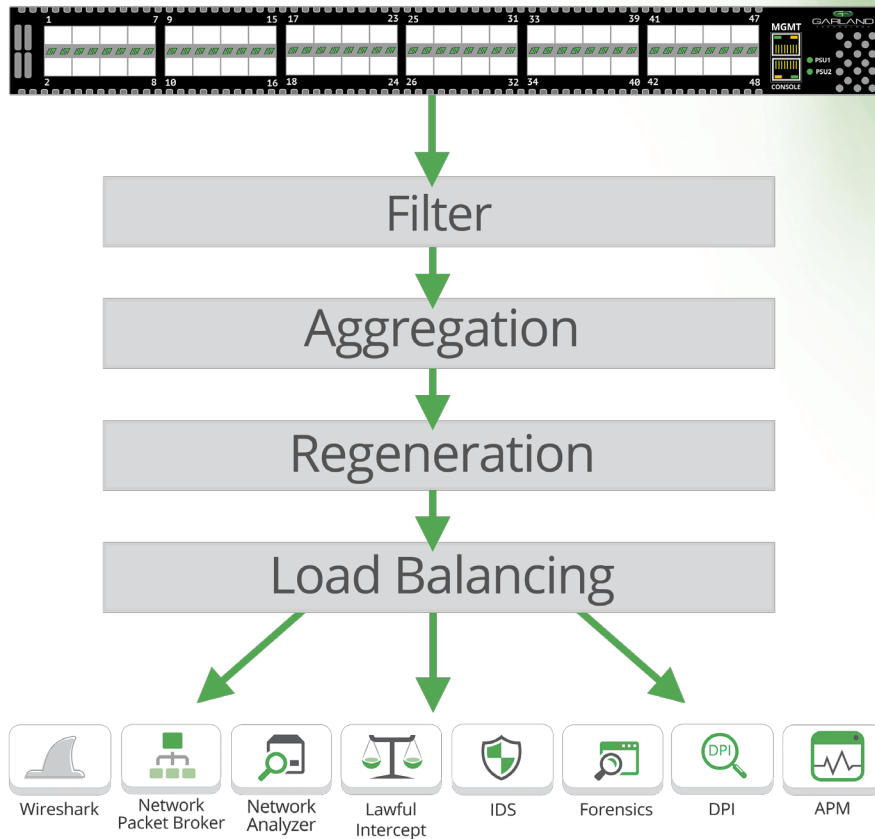


## Have Questions?

sales@garlandtechnology.com  
+716.242.8500  
garlandtechnology.com

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Filtering

## Filtering & Tagging

The FAB's filters direct the flow of traffic, filters can: deny traffic, pass all traffic, pass traffic by certain criteria and tag packets. The FAB's VLAN filters can tag packets, remove tags from packets and truncate packets.



Aggregation

## Aggregation

- Any to Any configuration
- Easily monitor EtherChannel (bonded links)
- Aggregate network traffic to single or multiple tools



Load Balancing

## Load Balancing

Session aware load balancing

- 1G to 1G • 10G to 1G • 40G to 1G
- 1G to 10G • 10G to 10G • 40G to 10G
- 1G to 40G • 10G to 40G • 40G to 40G



Regeneration

## Regeneration

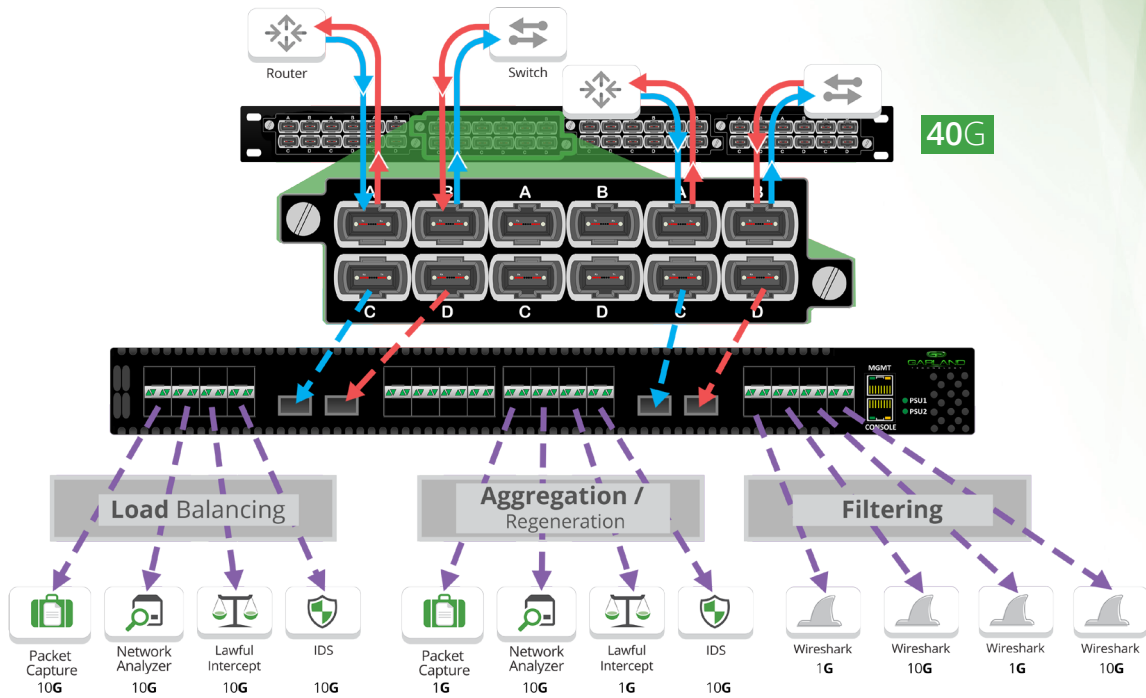
- Deliver data to all monitoring tools
- Double your data ports with passive fiber TAPs in 1G/10G/40G

# The FAB Packet Broker System

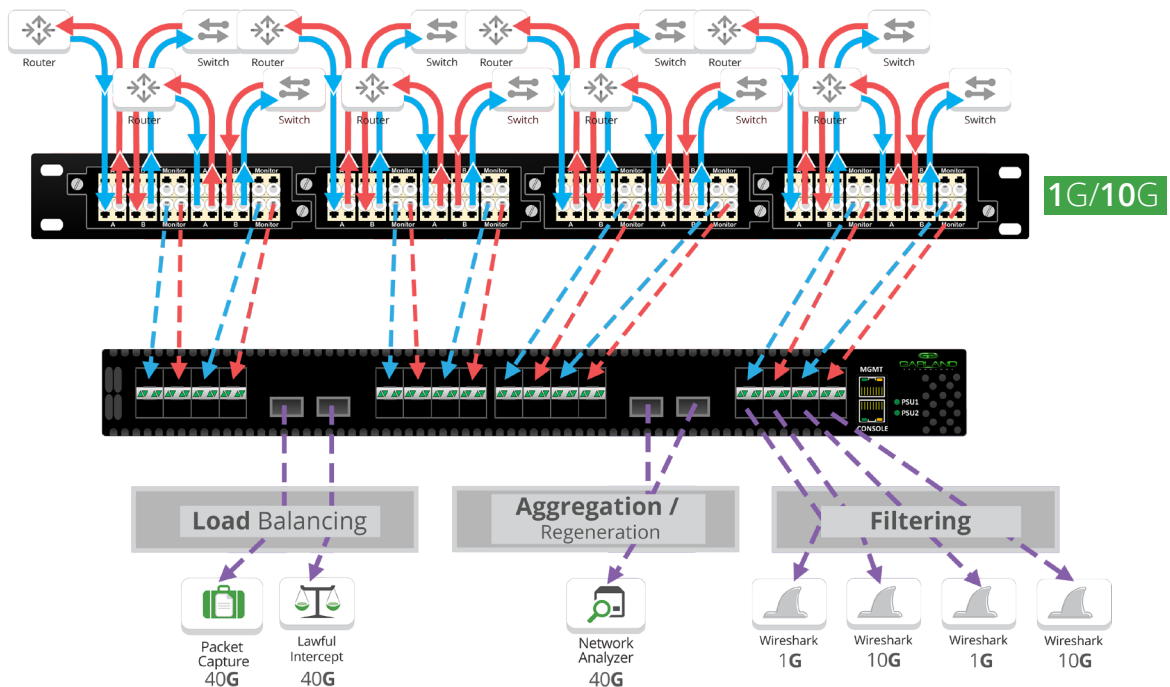
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## Use Cases

Monitor your 40G Links and Filter, Aggregate and Load Balance to multiple 1G or 10G Monitoring Solutions





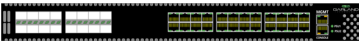



TAP Multiple 1G/10G Links and Filter, Aggregate and Load Balance to a single 40G Monitoring Tool



# The FAB Packet Broker System

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Filtering TAP options							
Model #	Ports	Network Speed	SFP/SFP+ Ports	Copper Ports	QSFP Ports (40G)	Power Consumption	Dual Hot Swappable Power Supplies*
FAB10G8AC		1G/10G	8 SFP/SFP+	No	No	156W	AC
FAB10G16AC		1G/10G	16 SFP/SFP+	No	No	166W	AC
FAB10G24AC		1G/10G	24 SFP/SFP+	No	No	176W	AC
FAB10G48AC		1G/10G	48 SFP/SFP+	No	No	195W	AC
FAB10G40AC		1G/10G	16 SFP/SFP+	24 10/100/1000M Copper	No	160W	AC
FAB40G36AC		1G/10G/40G	32 SFP/SFP+	No	4 - 40G QSFP	195W	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.

## 1U Chassis Specifications:

Max system throughput: 1.44TBPS  
 Support for: SFP / SFP+, LS, LR, SX, LX, TX, ER, SR  
 Operating Temp.: 0C to 40C / 32F to 104F  
 Operating Humidity: 5 to 90%

Dimensions: 1.75"H x 17.25"W x 24.50"D  
 (44.45 mm H x 448.15mm W x 622.3mm D)  
 Airflow: 200lf/m  
 (2) AC Power Supplies included



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