GARLAND TECHNOLOGY
See every bit, byte, and packet®

1G 10G
DATA SHEET

EdgeLens® In-line Security

Packet Broker System | 1G/10G | 1U Chassis

A Fail-safe Bypass Network TAP with Filtering, Aggregating and Load Balancing

The EdgeLens® is a fail-safe bypass TAP with a built in network packet broker for complete management of the edge of your network. Deploy multiple in-line security tools and out-of-band monitoring tools while gaining 100% network access and visibility.

The EdgeLens® is your 1U box solution for all your network security and monitoring needs. When your 1G tools can no longer keep up with your 10G network or if you need to connect multiple tools to one network link the EdgeLens provides flexibility and scalability for your network's needs today and tomorrow.

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

Key Features

- 1U Integrated Chassis Options:
  -One -or- Four: 10G-SR or LR bypass TAPs (with failover) for security appliances
  -Ten -or-Sixteen: SFP/SFP+ ports for passive monitoring appliances
- Bypass TAP with heartbeat packets - active switching of traffic in event of failure
- Network Packet Broker supports: filtering, aggregating, load balancing, and regeneration
- Remote management with GUI or CLI
- SSH and HTTPS for secure management
- TACACS+ authentication
- Syslog support
- NTP support
- Dual AC or DC hot swappable power supplies
- 1 Management port; 1 Console port
- Made in the USA

Solutions

- Wireshark
- Network Analyzers
- Intrusion Detection System
- Next Generation Firewalls
- Distributed Denial of Service Appliances
- Secure Sockets Layer
- Data Forensics
- Data Leakage Prevention
- Application Performance Monitoring
- Lawful Intercept
- Content Filter
- Security Information and Event Management
- Packet Broker
- Deep Packet Inspection
- Packet Injection
- Packet Capture

APPLICATIONS:

- Management of in-line security tools and out-of-band monitoring tools
- High Availability (HA) scenario (active/active or active/passive)
- Chaining multiple in-line security tools
- Load balancing for increased bandwidth demands
- EtherChannel (Port Channel Architecture)
- Root cause analysis
- Historical lookback
- Validate policy changes

FILTERS:

- User definable filters of Layer 2, 3 and 4
- Mac, IP, MAC, TCP, MPLS, UDP, IPv4/IPv6, Ethertype, source and definition
- Protocol: HTTP, VoIP, FTP
- VLAN ID
- User Defined Byte (UDB)
- Ingress and egress filtering

Competitive Edge

- Heartbeat packet health check
- Network failsafe for active, in-line appliances
- Session aware load balancing
- MPLS heading stripping
- VLAN tagging and stripping

TESTED CERTIFIED GUARANTEED

Have Questions?

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Filtering

Filtering & Tagging

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

Aggregation

Aggregation

- Any to Any configuration
- Packet slicing
- Packet truncation
- Aggregate network traffic to single or multiple tools

Load Balancing

Load Balancing

Session aware load balancing

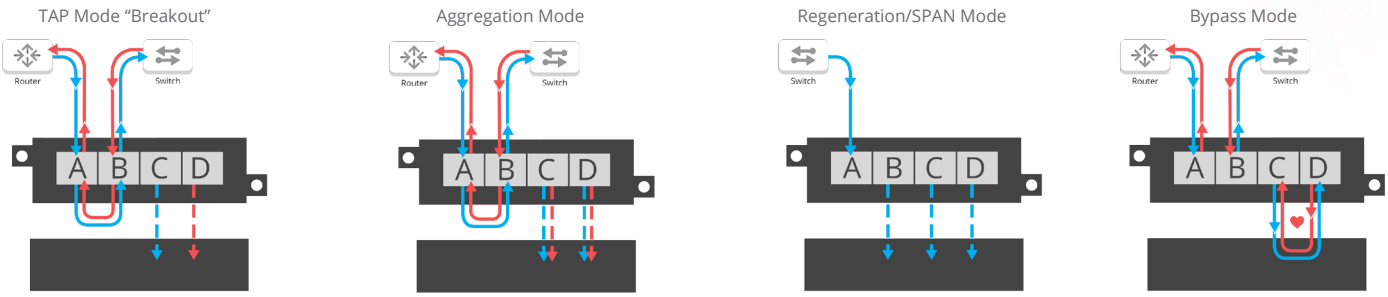
- 1G to 1G
- 10G to 1G
- 1G to 10G
- 10G to 10G

Regeneration

Regeneration

- Deliver data to security and monitoring tools
- In-line security tools can be deployed in serial (chaining) or in parallel

Failsafe Bypass TAP Features



Heartbeat packets are sent out of each monitoring port. If the heartbeat packets are not received from either direction, then Bypass mode takes effect. Heartbeat packets are never sent out onto the live network.

Bypass heartbeats are customizable, including:

- Heartbeat pattern
- Heartbeat frequency
- Number of link losses prior to activating -or- disability the Bypass

Network Failsafe recognizes power outages and automatically closes the relay circuitry in less than eight milliseconds then reconnects the two network devices connected to ports A and B.

- Configurable for Bypass fail open or fail close
- High Availability (HA) scenario (active/active or active/passive)
- Configure inline security tools in serial (chaining) or in parallel (load balancing)

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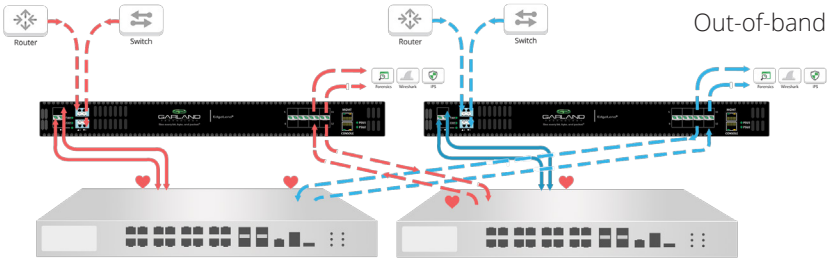
Use Cases

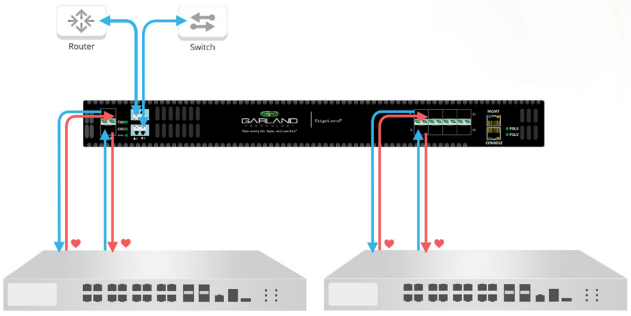
Advanced Load Balancing for Four In-Line Security Tools and Two Monitoring Tools

High Availability Design (HA)



Failover from primary to backup appliance

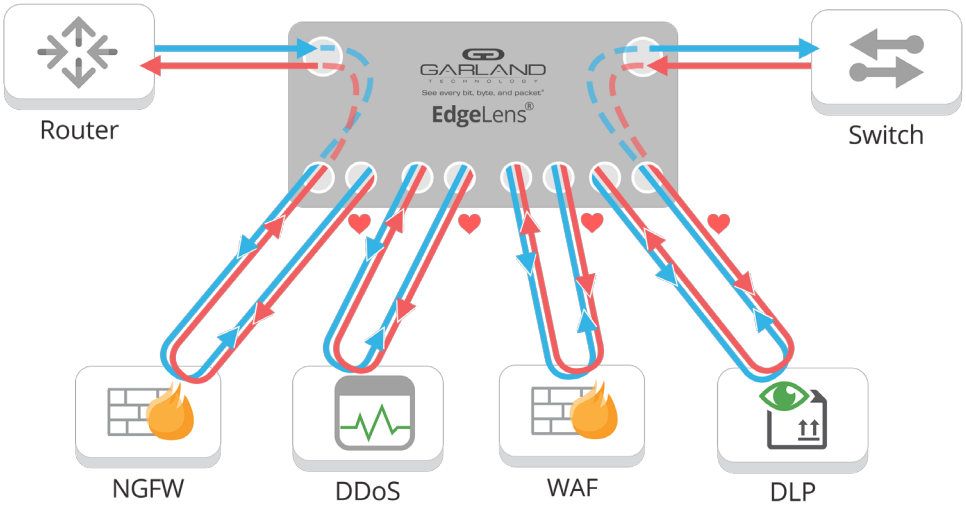
Active/Active (Crossfire)



Failover from primary to backup appliance with two monitoring ports

Active/Passive

10G Chaining - Support Up to Four Active, In-line Security Tools



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

1U Chassis Specifications:

Max. system throughput:
Support for: SFP(SX, LX and TX) and SFP+ (SR, LR, ER)
Operating Temp: 0 to 40° C or 32 to 104° F
Operating Humidity: 5 to 95%
Dimensions: 20" L x 1.75" H x 17.25" W
(508.00mm L x 44.45 mm H x 438.15mm W)
Airflow: 100 lF/m
(2) AC Power Supplies Included

APPROVALS:
Full RoHS compliance
EMC, FCC Class A, UL (Safety) Certifications

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