**EdgeSafe™: Integrated Bypass Network TAP**  
1G | 1U Chassis | High Availability Solution

Network test access points (TAPs) are hardware tools that allow you to monitor and access your network. Garland's Inline Edge Security Bypass TAPs are typically used with inline security appliances such as next generation firewalls and intrusion prevention systems. All bypass TAPs are purpose-built hardware devices that let you see every bit, byte and packet.

Bypass TAPs are used to connect a monitored network segment to an inline active appliance and monitor the appliance's health. If your appliance goes off-line for any reason the Bypass TAP will automatically switch to 'bypass mode' keeping your network up while you to resolve the issue.

**Key Features**

- 1U - 6 Port High Availability (HA) solution, TAP once and connect one primary and one secondary in-band appliance and up to two out-of-band monitoring appliances.
- 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.
- 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.
- Fiber to Copper media conversion.
- Supports Jumbo frames.
- Supports Link Failure Propagation (LFP) - In the event the primary network connection is lost, the failover mechanism forces the network to a backup/secondary network.
- Supports multiple modes: breakout, aggregation or bypass.
- Supports packet injection and packet slicing in aggregation mode
- Serial port management
- Passes physical errors.
- FPGA design
- 100% secure and invisible; no IP address, no Mac address; cannot be hacked.
- Made, tested and certified in USA.

**Network Flow**

- **Bypass Mode: Active Inline**
  - Bypass TAP Taps into network traffic.
  - Network traffic is monitored by the TAP.
  - Traffic is split between the primary and secondary appliances.

- **Bypass Mode: Off-Line**
  - Bypass TAP is switched to bypass mode to prevent unnecessary data traffic.
  - Traffic is not monitored by the TAP.

- **Power loss**
  - Bypass TAP recognizes a power failure and switches to bypass mode.
  - Traffic is automatically redirected to the secondary appliance.

**APPLICATIONS:**

- TAP once and connect one primary and one back up in-band appliance and two out-of-band monitoring appliances.
- Take your in-band appliance off line without interrupting data traffic for: Updates, Maintenance, Troubleshooting.
- High availability when network downtime is not an option.

**SOLUTIONS:**

HA Bypass TAPs are ideal for:

- **In-Band**
  - Next-Generation Firewalls
  - Data Leakage Prevention
  - Intrusion Prevention System
  - Web Application Firewall
  - Distributed Denial of Service Appliances

- **Out-of-Band**
  - Network Analyzer
  - Forensics
  - Intrusion Detection System
  - Wireshark

**Competitive Edge**

- High Availability solution in 1U design
- Media conversion: Fiber to Copper
- Bypass TAP Invented by Jerry Dillard, CTO and Co-Founder
- Tested and Certified

**Have Questions?**

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<table>
<thead>
<tr>
<th>Model #</th>
<th>Network Speed</th>
<th>Media</th>
<th>Modes</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT1G8CCBP</td>
<td>1G</td>
<td>2 Copper-RJ45</td>
<td>Breakout</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Aggregation</td>
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<td></td>
<td></td>
<td>6 Copper-RJ45</td>
<td>Ports GH</td>
</tr>
<tr>
<td>INT1G8SCBP</td>
<td>1G</td>
<td>2 LX Single-mode, LC-Fiber</td>
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**Additional Specifications**

- **Power:** Dual Internal AC Supplies
- **Voltage:** 85V - 264V AC
- **Current:** .44A @ 110V AC, .22A @ 230V AC
- **Max. Consumption:** 50 Watts
- **Ambient Temp.:** 0°C to +40°C / +32°F to +104°F
- **Storage Temp.:** -20°C to +70°C / -4°F to +158°F
- **Operating Re. Humidity:** 90% non-condensing

**Dimensions** (HxWxD):
1.75" x 17.40" x 13.45"
(44.45mm x 441.96mm x 341.63mm)

**Weight:** 3.25 lbs (1.47 kg)

**Use Case**

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.