PacketMAX™: Advanced Features

Time Stamping  |  Packet Slicing  |  Filtering, Aggregation & Load Balancing

PacketMAX™: Advanced Features are part of Garland Technology's purpose-built network packet broker lines. These Advanced Features appliances are built to extend the feature set of any product. The system is designed to support NTP time stamping, packet slicing, traffic aggregation, GRE Tunneling, hash-based load balancing, and round-robin distribution. Adding these features to your existing infrastructure, can significantly reduce the processing overhead from security or monitoring tools.

Garland's Advanced Features are scalable and flexible, offering a wide range of options to meet your needs. With available speeds from 1G/10G/40G/100G, and GRE, L2GRE, ERSPAN, VxLAN Tunneling all included with no additional per-port license fees, you have the ability to deploy what features you need, when you need it.

We believe that securing and monitoring your network is the ultimate goal. Network packet brokers are critical to accomplishing that goal providing access and management of network traffic from multiple links to optimize the performance your of network monitoring and security tools.

**Key Features**

- Supports 1G/10G/40G/100G
- NTP Time stamping
- Packet slicing
- High density filtering, aggregation, replication, hash-based load balancing / round-robin distribution
- Aggregate network traffic to a single or multiple tools (1:1, 1:N, N:1, N:N)
- Tunnel Encapsulate [GRE, L2GRE]
- Tunnel Decapsulate [GRE, L2GRE, ERSPAN, VxLAN]
- IPv4 and UDF Filter support
- sFlow Support
- Supports jumbo frames
- Passes physical layer errors
- Port splitting functionality
- Hot swappable, dual power supplies, AC standard, DC available
- Remote management [CLI, GUI, and SNMP]
- RADIUS and TACACS authentication
- Restful API

**APPLICATIONS:**

- Adding advanced features to existing equipment
- Aggregation of multiple TAP/SPAN ports for increased utilization
- Connect to Network Packet Broker or directly to tools

**FILTERS HIGHLIGHTS:**

- Layer 2–4 filtering [4,000 filter rules]
- IPv4, MAC, L4Port, VLAN, Ethertype, IP protocol
- Supports VXLAN decapsulation/encapsulation
- Supports VLAN stripping, QinQ support
- Full line rate filtering
- Packet modification

**Competitive Edge**

- Scalability and Flexibility: Modular solutions for future growth
- Multi-source agreement (MSA) transceivers/optics support, no vendor lock-in
- No additional port/feature license fees
- Simple: With easy set management, or by incorporating Restful API, focus on the tools

**Have Questions?**

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# PacketMAX™: Advanced Features

**Time Stamping | Packet Slicing | Filtering, Aggregation & Load Balancing**

## Advanced Features options

<table>
<thead>
<tr>
<th>Model #</th>
<th>Ports</th>
<th>Network Speed</th>
<th>1G Port</th>
<th>1/10G Port</th>
<th>40G Port</th>
<th>100G Port</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF1G40AC</td>
<td>1/10G (24) RJ-45, (16) SFP+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>AC 55W</td>
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<tr>
<td>AF1G40DC</td>
<td>1/10G (24) RJ-45, (16) SFP+</td>
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<td></td>
<td></td>
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<td></td>
<td>DC 70W</td>
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<tr>
<td>AF10G72AC</td>
<td>10/40/100G - (48) SFP+</td>
<td>10/40/100G</td>
<td>-</td>
<td>(48) SFP+</td>
<td>(2) QSFP+</td>
<td>(4) QSFP28</td>
<td>AC 150W</td>
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<tr>
<td>AF10G72DC</td>
<td>10/40/100G - (48) SFP+</td>
<td>10/40/100G</td>
<td>-</td>
<td>(48) SFP+</td>
<td>(2) QSFP+</td>
<td>(4) QSFP28</td>
<td>DC 190W</td>
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<tr>
<td>AF40G24AC</td>
<td>10/40/100G</td>
<td>10/40/100G</td>
<td>-</td>
<td>-</td>
<td>(20) QSFP+</td>
<td>(4) QSFP28</td>
<td>AC 120W</td>
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<tr>
<td>AF40G24DC</td>
<td>10/40/100G</td>
<td>10/40/100G</td>
<td>-</td>
<td>-</td>
<td>(20) QSFP+</td>
<td>(4) QSFP28</td>
<td>DC 160W</td>
</tr>
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</table>

## Available Pluggables & Cables:

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFPTX</td>
<td>SFP 10/100/1000 Copper RJ-45 Connector</td>
</tr>
<tr>
<td>SFPSX</td>
<td>SFP 1000Base-SX Multi-Mode Fiber LC Connector</td>
</tr>
<tr>
<td>SFP+SR</td>
<td>SFP+ Dual Speed 1 Gigabit-SX / 10 Gigabit-SR Multi-Mode Fiber LC Connector</td>
</tr>
<tr>
<td>SFP+LR</td>
<td>SFP+ Dual Speed 1 Gigabit-LX / 10 Gigabit-LR Single Mode Fiber LC Connector</td>
</tr>
<tr>
<td>SFP+SR10</td>
<td>SFP+ 10Gigabit-SR Multi-Mode Fiber LC Connector - only supports 10G</td>
</tr>
<tr>
<td>SFP+LR10</td>
<td>SFP+ 10Gigabit-LR Multi-Mode Fiber LC Connector - only supports 10G</td>
</tr>
<tr>
<td>QSFP+40G</td>
<td>QSFP+ 40 Gigabit-SR Multi-Mode Fiber MPO/MTP-12 Connector</td>
</tr>
<tr>
<td>QSFP+40G-LR</td>
<td>QSFP+LR Single-Mode Fiber LC Connector</td>
</tr>
<tr>
<td>QSFP+40GBiDi</td>
<td>QSFP+40Gigabit-SR-BiDi Multi-Mode Fiber LC Connector</td>
</tr>
<tr>
<td>QSFP-4SF+1</td>
<td>Direct Attached Copper Cable QSFP+ to 4x 10Gb SFP+, Pre-Cut 1 Meter</td>
</tr>
<tr>
<td>TWINAX1M*</td>
<td>Twinax Copper Direct Connect Cable SFP+ 10Gigabit 1 Meter</td>
</tr>
</tbody>
</table>

**AF1G40AC/DC 1U Chassis Specifications:**
- Support for: SFP, SFP+ (SR, LR, ER)
- Operating Temp: 0°C ~ 45°C (32°F ~ 113°F) - Long Term
- -5°C ~ 55°C (23°F ~ 131°F) - Short Term
- Operating Humidity: 0% ~ 95% non-condensing
- Airflow: Front to back
- Dimensions (H x W x D): 1.73” x 17.5” x 13.8”
- (43.94mm x 444.5mm x 350.52mm)

**AF10G72AC/DC 1U Chassis Specifications:**
- Support for: SFP, SFP+ (SR, LR, ER)
- Operating Temp: 0°C ~ 45°C (32°F ~ 113°F) - Long Term
- -5°C ~ 55°C (23°F ~ 131°F) - Short Term
- Operating Humidity: 0% ~ 95% non-condensing
- Airflow: Front to back
- Dimensions (H x W x D): 1.73” x 17.5” x 13.8”
- (43.94mm x 444.5mm x 350.52mm)

**AF40G24AC/DC 1U Chassis Specifications:**
- Support for: SFP, SFP+ (SR, LR, ER)
- Operating Temp: 0°C ~ 45°C (32°F ~ 113°F) - Long Term
- -5°C ~ 55°C (23°F ~ 131°F) - Short Term
- Operating Humidity: 0% ~ 95% non-condensing
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- Dimensions (H x W x D): 1.73” x 17.5” x 13.8”
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