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 management of network traffic from multiple links to optimize the performance of your network monitoring and security tools.

Key Features

- Supports 10M/100M/1G/10G/40G/100G
- 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)
- Ingress filter support IPv4, IPv6 and UDF L2, L3 and L4
- Egress filter support IPv4, IPv6
- MPLS support (strip up to 9 MPLS labels, filter up to 3 MPLS labels)
- Tunnel Encapsulate GRE, L2GRE, VxLAN, ERSPAN
- Tunnel Decapsulate GRE, L2GRE, ERSPAN, VxLAN
- Restful API
- NETflow/IPFix support
- NTP support
- sFlow support
- Flow statistics
- Link Flapping support
- PPPoE support
- Supports jumbo frames
- Passes physical layer errors
- Port splitting functionality
- RADIUS and TACACS authentication
- Remote management CLI, GUI, and SSH
- Remote monitoring Syslog, SNMPv2c, SNMPv3 MDS/DES, SNMPv3 SHA/AES
- Hot swappable, dual power supplies, AC standard, DC available
- No additional per-port license fees

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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Design-IT Demo
garlandtechnology.com/design-it
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## 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>
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<tbody>
<tr>
<td>AF1G40AC</td>
<td></td>
<td>1/10G</td>
<td>(24) RJ-45</td>
<td>(16) SFP+</td>
<td>-</td>
<td>-</td>
<td>AC 55W</td>
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<tr>
<td>AF1G40DC</td>
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<td>1/10G</td>
<td>(24) RJ-45</td>
<td>(16) SFP+</td>
<td>-</td>
<td>-</td>
<td>DC 70W</td>
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<tr>
<td>AF1G52AC</td>
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<td>1/10G</td>
<td>(48) RJ-45</td>
<td>(4) SFP+</td>
<td>-</td>
<td>-</td>
<td>AC</td>
</tr>
<tr>
<td>AF10G72AC</td>
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<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>
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<td>10/40/100G</td>
<td>-</td>
<td>(48) SFP+</td>
<td>(2) QSFP+</td>
<td>(4) QSFP28</td>
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<td>-</td>
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<td>(4) QSFP28</td>
<td>AC 120W</td>
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<tr>
<td>AF40G24DC</td>
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<td>10/40/100G</td>
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<td>(4) QSFP28</td>
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<td>1/10G</td>
<td>(8) RJ-45</td>
<td>(4) SFP+</td>
<td>-</td>
<td>-</td>
<td>AC</td>
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### Available Pluggables & Cables:

<table>
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<tr>
<th>Model #</th>
<th>Description</th>
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<tr>
<td>SFPTX</td>
<td>SFP 10/100/1000 Copper RJ-45 Connector</td>
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<tr>
<td>SFPSX</td>
<td>SFP 1000Base-SX Multi-Mode Fiber LC Connector</td>
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<tr>
<td>SFPLX</td>
<td>SFP 1000Base-LX Single Mode Fiber LC Connector</td>
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<tr>
<td>SFP+SR</td>
<td>SFP+ Dual Speed 1 Gigabit-SX / 10 Gigabit-SR Multi-Mode Fiber LC Connector</td>
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<tr>
<td>SFP+LR</td>
<td>SFP+ Dual Speed 1 Gigabit-LX / 10 Gigabit-LR Single Mode Fiber LC Connector</td>
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<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>
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<tr>
<td>QSFP+40G</td>
<td>QSFP+ 40 Gigabit-SR Multi-Mode Fiber MPO/MTP-12 Connector</td>
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<tr>
<td>QSFP+40G-LR4</td>
<td>QSFP+LR Single-Mode Fiber LC Connector</td>
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<td>QSFP+40GBiDi</td>
<td>QSFP+ 40Gigabit-SR-BiDi Multi-Mode Fiber LC Connector</td>
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<td>QSFP-4SFP+_1</td>
<td>Direct Attached Copper Cable QSFP+ to 4x 10Gb SFP+, Pre-Cut</td>
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<tr>
<td>TWINAX1M*</td>
<td>Twinax Copper Direct Connect Cable SFP+ 10Gigabit 1 Meter</td>
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</tbody>
</table>

1U Chassis Specifications:

Support for: SFP, SFP+ (SR, LR, ER)

- Operating Temp: 0°C - 45°C (32°F - 113°F) - Long Term
- Operating Temp: -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)