![Garland Technology logo]

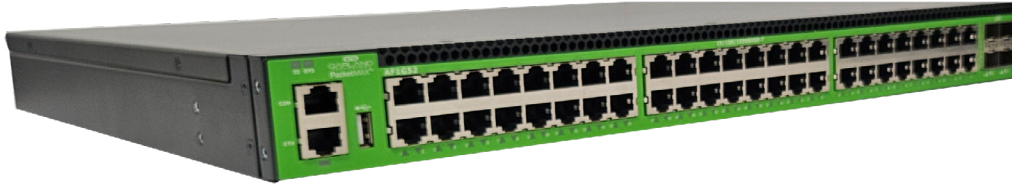**See every bit, byte, and packet®**

# AF1G52 Network Packet Broker

1G-10G | Time Stamping | Packet Slicing | Filtering, Aggregation & Load Balancing

IT teams deploy multiple security and monitoring tools that require access to network traffic for analysis, threat detection, and compliance reporting. However, sending raw network traffic directly to these tools creates significant processing overhead, reduces tool efficiency, and can overwhelm expensive security appliances with unnecessary data.

The AF1G52AC addresses this challenge by providing intelligent packet preprocessing and traffic optimization in a high-density 1U form factor. This network packet broker sits between network infrastructure and monitoring tools, performing advanced filtering, aggregation, time stamping, and load balancing to maximize tool performance while reducing operational costs.

The AF1G52AC processes network traffic from multiple 1G copper and 10G fiber sources, applying sophisticated filtering rules and traffic management policies before forwarding optimized data streams to security and monitoring tools

### TRAFFIC OPTIMIZATION
- Packet slicing to reduce bandwidth consumption
- Hash-based and round-robin load balancing
- Traffic aggregation patterns: 1:1, 1:N, N:1, N:N
- NTP time stamping for precise packet timing

### ADVANCED FILTERING
- Layer 2-4 filtering with 4,000 filter rules
- IPv4, IPv6, MAC, VLAN, L4Port filtering
- MPLS support (strip up to 9 labels, filter up to 3)
- User Defined Fields (UDF) L2, L3, L4 filtering

### TUNNELING & ENCAPSULATION
- GRE, L2GRE, VxLAN, ERSPAN support
- Tunnel encapsulation and decapsulation
- VLAN stripping and QinQ support
- Jumbo frame support

### SPECIFICATIONS
- 48 x 1G RJ-45 ports + 4 x SFP+ 10G ports
- Operating temperature: 0°C to 45°C
- Dual hot-swappable power supplies
- 1U chassis: 1.73" x 17.5" x 14.6"

## Ordering Information

| Product Name | Part # | Product Description |
|---|---|---|
| **AF1G52AC** Network Packet Broker | AF1G52AC | (48) 1G RJ-45 + (4) SFP+ 10G ports, 0°C ~ 45°C, Dual Hot Swappable AC Power Supplies |
| **AF1G52DC** Network Packet Broker | AF1G52DC | (48) 1G RJ-45 + (4) SFP+ 10G ports, 0°C ~ 45°C, Dual Hot Swappable DC Power Supplies |

### Have Questions?

# Technical Specifications

## SPECIFICATIONS
- Dimensions (H×W×D): 1.73" x 17.5" x 14.6" (43.94mm x 444.5mm x 370.84mm)
- Weight: 11.2436 lbs (5.1kg)
- Air Flow Option: Front to Rear

## ENVIRONMENTAL
- Operating Temperature: 0°C to 45°C (32°F to 113°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Relative Humidity: 0 to 95% (non-condensing)

## POWER REQUIREMENTS
- AC Model: 100-240V, 50-60Hz (90-264V, 47-63Hz max)
- DC Model: -48V to -60V DC
- Typical Power Draw: 42W
- Maximum Power Draw: 55W

## MANAGEMENT FEATURES
- RESTful API support
- CLI, GUI, and SSH management
- SNMP v2c, v3 monitoring
- RADIUS and TACACS authentication
- Syslog support

## NETWORK INTELLIGENCE
- NetFlow/IPFix support
- sFlow support
- Link flapping support
- PPPoE support
- Port splitting functionality
- Flow statistics and monitoring

Ports 49-52 SFP+ support 40G/4x10G



Ports 1-48 - RJ-45 fixed ports 10/100/1000M
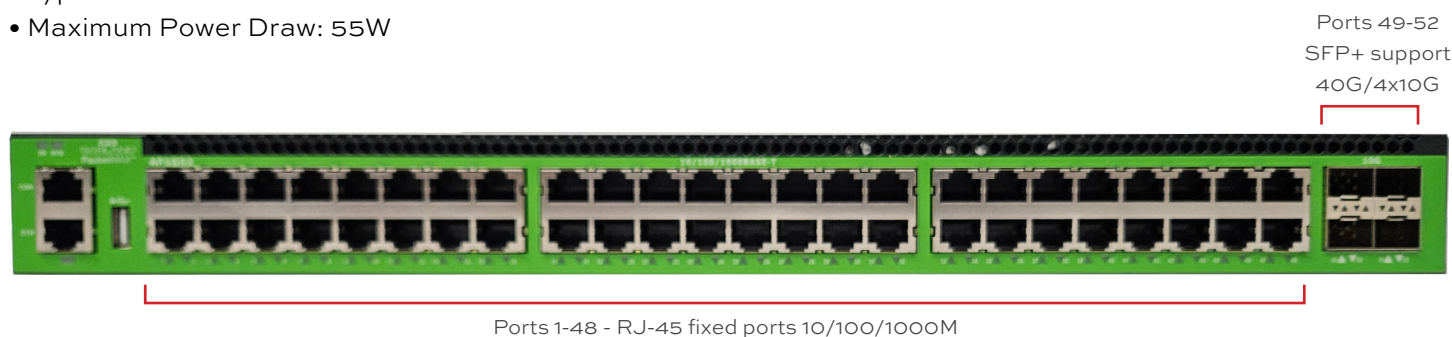
## SFP/SFP+/QSFP+ Transceivers available for AF40G34ACV2:

**SFPTX_T:** SFP 10/100/1000 Copper RJ-45 Connector, TAA Compliant

**SFPSX_T:** SFP 1000Base-SX MMF LC Connector, TAA Compliant

**SFPLX_T:** SFP 1000Base-LX SMF LC Connector, TAA Compliant

**SFP+T_T:** SFP+ 1G-TX / 10G-T Copper RJ-45 Connector, TAA Compliant

**SFP+SR_T:** SFP+ 1G-SX / 10G-SR MMF LC Connector, TAA Compliant

**SFP+LR_T:** SFP+ 1G-LX / 10G-LR SMF LC Connector, TAA Compliant

**SFP28_SR25G_T:** SFP28 25G-SR MMF LC Connector TAA Compliant

**SFP28_LR25G_T:** SFP28 25G-LR SMF LC Connector TAA Complaint

**QSFP+40G_T:** QSFP+ 40G-SR MMF MPO/MTP-12 Connector TAA Compliant

**QSFP+40-LR4_T:** QSFP+ 40G-LR4 10km 1310nm SMF LC Connector, TAA Compliant

**QSFP+10GLR_T:** QSFP+ 4x10G-LR/LW QSFP+ SMF MPO12 Connector, 10km supporting Tx/Rx, TAA Compliant

**Have Questions?**

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TECHNOLOGY
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