

High-Density 100G Advanced Packet Broker for Scalable Network Visibility

The Niagara 4532 is designed for high-density data center, service provider, and mission-critical enterprise environments that require reliable packet access, traffic aggregation, and optimized delivery to security and monitoring tools. With up to 32 ports of 40/100Gb and 8 additional 1/10/25Gb ports in a compact 1U form factor, the 4532 helps organizations scale visibility without increasing network complexity.



4532 front view

The 4532 is a fully featured packet broker supporting aggregation, replication, advanced filtering, load balancing, tunnel handling, and other traffic optimization functions.

Using Niagara Networks' FabricFlow™ technology, the 4532 enables traffic to be aggregated, replicated, filtered, tunneled, and load balanced across multiple tools, ensuring that each security, monitoring, and analytics platform receives the right traffic in the right format.

Product Highlights

Purpose-Built for High-Density 100G Visibility

- Up to 32 ports of 40/100Gb and additional 8 ports of 10/25Gb

1U Form Factor:

- Reduced footprint, saving power, space and cooling

Switching Fabric

- 3.2Tb Bi-directional, non-blocking switching fabric

Clustering Capabilities

- Stack any number of units by using any ports to connect between devices

Advanced Network Intelligence

- Future-ready for the ePacketron external appliance
- Supporting network intelligence applications up to Layer 7

FabricFlow™



Mapping traffic flow relationships between source and destination ports:

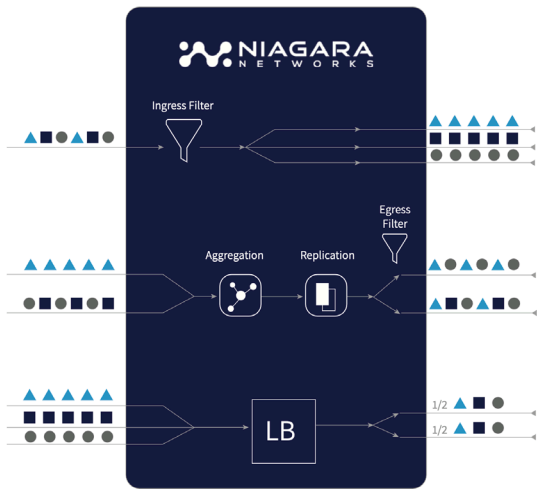
- Aggregate traffic to single port
- Replicate traffic to multiple ports
- Sophisticated filtering - L2-L4, User Defined Byte (UDB)
- Tunnel handling:
 - GTP filtering
 - GRE termination
 - MPLS filtering and stripping
 - VXLAN filtering and stripping
- VLAN support for filtering, stripping and modifying
- Multiple flexible load balancing regimes
 - Layer 2 to Layer 4 hashing criteria
 - Port utilization based load balancing
 - Session stickiness
- Ingress / egress filtering and internal traffic loopback for efficient creation of sophisticated multi-level filters
- Filter templates for rapid deployment and filter re-use

Management

- Robust Command Line Interface (CLI)
- User friendly, Web-based user interface
- REST API for 3rd party integration and support
- Managed by Niagara Visibility Controller
- Support TACACS+, RADIUS, SNMP and NTP

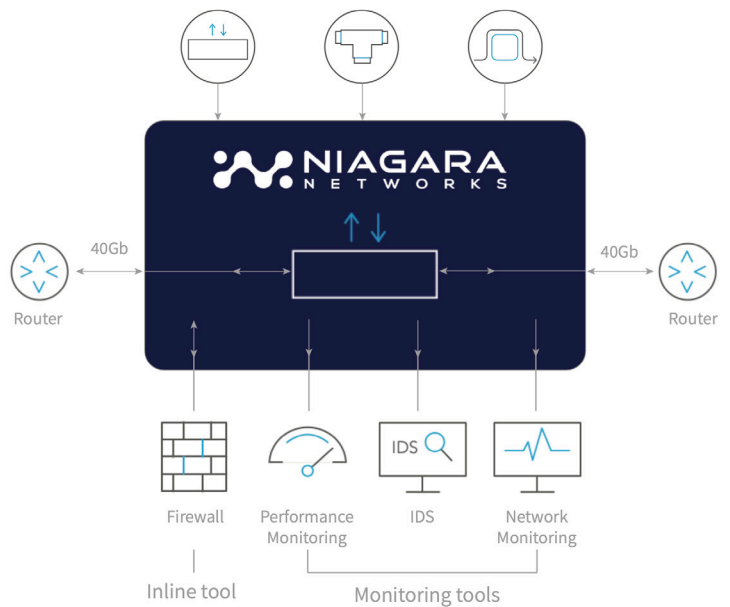
¹ 1Gb rate is supported on the 10/25G ports

Common Use Cases

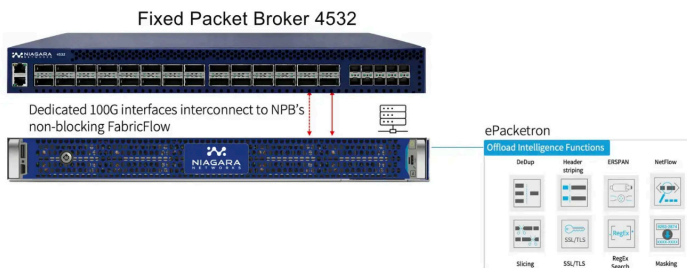


FabricFlow™ technology enables efficient aggregation, replication, filtering, and load balancing of production traffic before forwarding optimized streams to security and monitoring

Protect the network by steering traffic through inline security tools, such as firewalls, while also sending copies to monitoring tools for performance analysis, threat detection, and troubleshooting.



ePacketron enables advanced packet processing while preserving **line-rate performance** across Niagara packet brokers



The Niagara 4532 Network Packet Broker connects to external ePacketron appliances through dedicated 100G interfaces, enabling advanced Layer 2–Layer 7 packet processing while preserving line-rate packet broker performance. This future-ready architecture supports greater processing power, application awareness, and scalable visibility deployments.

Specifications			
Height	1.72 inches (43.70 mm)	Max Power	481.32 Watts (w/o Packetron module) 724.52 Watts (with two Packeron modules)
Length	24.0 inches (609.60 mm)	BTU/hr	1642.33 (w/o Packeron modules) 2472.16 (with two Packeron modules)
Width	17.3 inches (439.42 mm)	Airflow	Front to back
Weight	25.6 lb (11.4 kg)	DC	40-60V DC, 20-15A
Operating Temp	32-104°F (0-40°C)	AC	90-264V AC, 50-60Hz, 8-4A
Operating Humidity	5-95%	Max Current	10A @ 115V AC 5A @ 230V AC 14.38A @ 40V DC

Emissions	Immunity
FCC Part 15B, ICES 003, EN55032	EN55024

Safety	Certifications
UL/CSA 60950-1, EN 60950-1, IEC 60950-1, UL 62368 CB Scheme with all country differences	North America (NRTL) European Union (EU) VCCI (Japan) 2014/35/EU Low Voltage Directive 2014/30/EU EMC Directive 2011/65/EU RoHS Directive 2012/19/EU WEEE Directive

Part Number	Description
4532-MN-AC	4532 main chassis AC, includes two field-replaceable power supply units and two field replaceable fan units. Supports 32 ports of 40/100Gb and 8 ports of 10/25Gb. Includes license 4532-LN-MN to enable 32 ports of 40/100Gb, 8 ports of 10/25Gb. Transceivers sold and ordered separately.
4532-MN-DC	4532 main chassis DC, includes two field-replaceable power supply units and two field replaceable fan units. Supports 32 ports of 40/100Gb and 8 ports of 10/25Gb. Includes license 4532-LC-MN to enable 32 ports of 40/100Gb, 8 ports of 10/25Gb. Transceivers sold and ordered separately.
4532-MN-16P-AC	4532 main chassis AC, includes two field-replaceable power supply units and two field replaceable fan units. Supports 32 ports of 40/100Gb and 8 ports of 10/25G. Includes license 4532-LC-16 to enable 16 ports of 40/100Gb, 8 ports of 10/25Gb. Transceivers sold and ordered separately.
4532-MN-16P-DC	4532 main chassis DC, includes two field-replaceable power supply units and two field replaceable fan units. Supports 28 ports of 40/100Gb and 8 ports of 10/25Gb. Includes Base license to enable 16 ports of 40/100Gb, 8 ports of 10/25Gb. Transceivers sold and ordered separately.
License	Description
4532-LC-MN	4532 license to enable 40G/100G ports 1-32, 1G/10G ports 33-40
4532-LC-16	4532 license to enable 40G/100G ports 1-16, 1G/10G ports 33-40
4532-LC-17-32	4532 license enable to activate 40G/100G ports 17-32

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