

High Density 72 1/10Gb port Packet Broker

The 4272 is part of the Fixed Broker product line, consisting of 1U high density, high performance, packet brokers.



Figure 1: Front panel of 4272 with 72 ports of 1/10Gb, in a single 1U rackmount form factor

The 4272 includes up to 72 ports of 1/10Gb. With the unique software licensing feature, units can be offered with 36 ports of 1/10Gb. Users protect their investment and can grow with the system up to its full capacity of 72 ports of 1/10Gb, without adding other physical devices or performing a fork-lift upgrade in their deployment.

All ports connect to a non-blocking switching fabric, ensuring that all combinations of ports are supported at full line rate with no over subscription and with full-switching, line rate connectivity from any port to any port.

The 4272 is a fully featured packet broker that is capable of not only aggregation, but replication, sophisticated filtering, load balancing, tunneling support and more.

The 4272 include Niagara Network's Fabric Flow technology which is at the core of the systems exhaustive packet broker functionality, responsible for the mapping of traffic flow relationship between source and destination ports.

Product Highlights

High Density:

- Up to 72 ports of 1/10Gb

1U Form Factor:

- Reduced footprint, saving power, space and cooling

Switching Fabric

- 1.28Tb Bi-directional

Clustering Capabilities

- Stack any number of units by using any ports to connect between devices. Some clustering capabilities require the Niagara Visibility Controller (NVC)

Management

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



Fabric Flow:

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
- Flexible load balancing regimes
- User defined virtual bypass segments
- User configurable packet heartbeat (ms resolution)
- Ingress and egress filters
- Internal loopback for efficient creation of multilevel filters

Common Use Cases

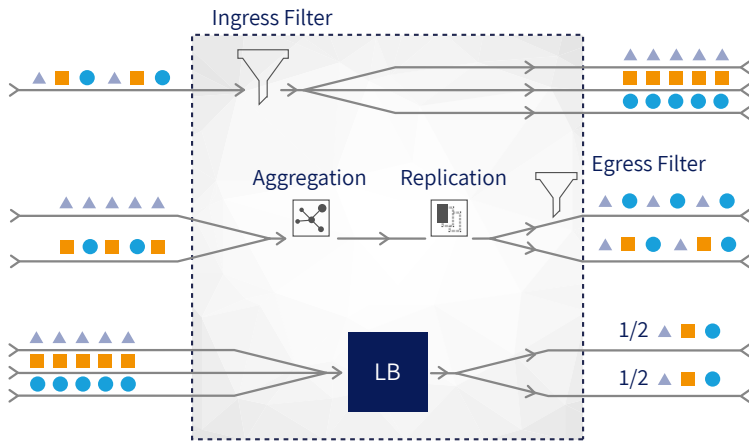


Figure 2: Fabric Flow technology for efficient aggregation, Replication, Filtering and load balancing of traffic.

Figure 3: Protect network from security attacks by sending traffic to inline tools like firewall (using virtual segment configuration) and also send copy to monitoring tools for performance analysis.

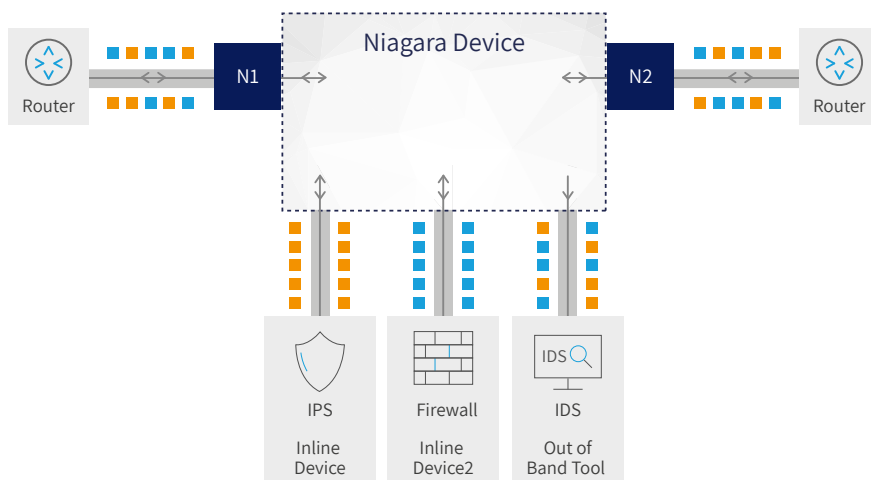
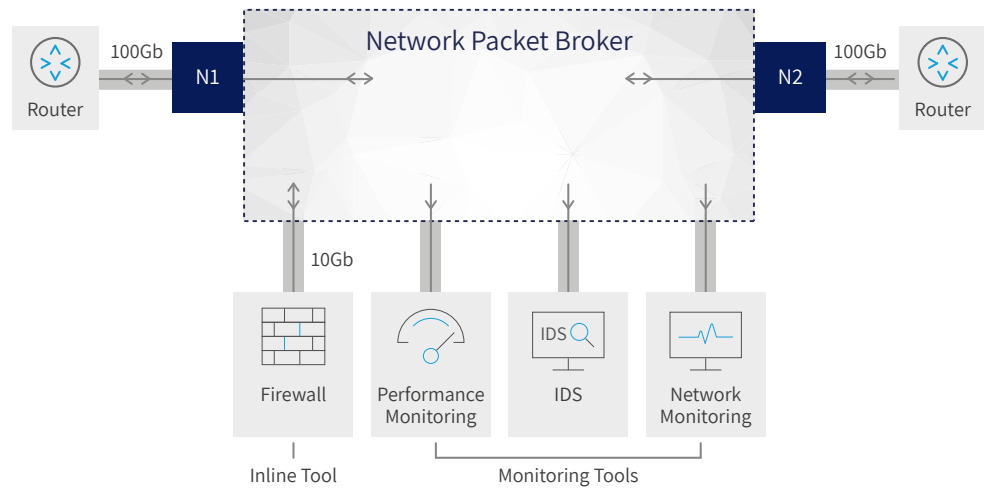


Figure 4: Provides visibility to network traffic by sending right traffic to right tools.

Specifications			
Height	1.72 in (43.7 mm)	Max Power	379.45 W
Length	24.5 in (622.30 mm)	BTU/hr	1544.82
Width	17.25 in (438.15 mm)	Airflow	200 lfm
Weight	24.36 lb (11.05 kg)	Altitude	80,000 ft
Operating Temp	32-104°F (0-40°C)	AC	100-240V, 50-60Hz, 10-5A
Operating Humidity	5-95%	DC	48-60V, 19-15A
Raw Power	519.43 W	Max Current	3.80A @ 100 V _{AC} 7.91A @ 48 V _{DC}

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

Safety	Certifications
UL/CSA 60950-1, EN 60950-1, IEC 60950-1 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
4272-MN-36P-AC	4272 main chassis AC, includes two field replaceable power supply units and four field replaceable fan units. License for 36 1/10Gb ports. Transceivers sold and ordered separately.
4272-MN-36P-DC	4272 main chassis DC, includes two field replaceable power supply units and four field replaceable fan units. License for 36 1/10Gb ports. Transceivers sold and ordered separately.
800W-PSU-AC	Field replaceable power supply unit AC - 800W
750W-PSU-DC	Field replaceable power supply unit DC - 750W
NN-FAN-1	Field replaceable fan unit for 1RU products

LICENSING	4272 license options, 36 port license included in base product
4272-LC-37-72P	4272 license upgrade from 37 to 72 ports Transceivers sold and ordered separately

About Niagara Networks

Niagara Networks provides high performance network visibility solutions for seamless administration of security solutions, performance management and network monitoring. Niagara Networks products provide advantages in terms of network operation expenses, downtime, and total cost of ownership.

A former division of Interface Masters, Niagara Networks provides all the building blocks for an advanced Visibility Adaptation Layer at all data rates up to 100Gb, including Taps, bypass elements, packet brokers and a unified management layer. Thanks to its integrated in-house capabilities and tailor-made development cycle, Niagara Networks are agile in responding to market trends and in meeting the customized needs of service providers, enterprise, data centers, and government agencies.

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