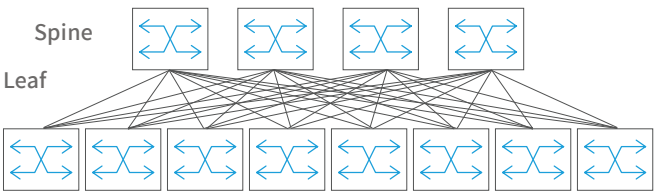
N2 Advanced Packet Brokers

Niagara Networks' N2 Advanced Packet Broker Series is a second-generation solution designed to meet the challenges of creating a robust visibility adaptation layer. Niagara's visibility adaptation layer transforms the visibility layer by adapting and grooming the traffic to the requirements and needs of connecting services. The visibility adaptation layer thus provides the crucial enablement layer on top of the networking infrastructure that provides operations engineers, IT professionals, and support teams with the ability to easily add services to the network infrastructure.

Next-generation networks operate within an increasingly complex ecosystem. They are required to support a growing number of services and sophistication levels. These include multi-vendor security solutions, some of which need to connect in-line with the network – as well as other data network security solutions that need to tap into the network to analyze user and network traffic, or be used for behavior analysis and modeling.

Beyond security solutions, today's networks also require monitoring and performance management capabilities. The demands of these new services are in addition to the 'standard' network requirements for troubleshooting solutions used by Tier 3 support and by IT operations.

IT professionals must also contend with the complexity that comes with each service having a particular interface and traffic functionality requirements. Today's networks are not monolithic, and often involve several data interfaces and the need to address multiple network architectures – each with a greater number of visibility connection points. The Niagara N2 series provides the support you need to handle this complexity with a solution that is:



Spine and Leaf network architecture typically involves more visibility points and increased traffic throughputs from East-West Flows

The Niagara N2 series comes in 1U and 2U form factors. Multiple units can be linked or stacked to provide a seamless virtual visibility layer. Using Niagara Networks' unified management layer – the Niagara Visibility Controller (NVC), traffic can be easily groomed, replicated, switched, load balanced and more, across multiple devices

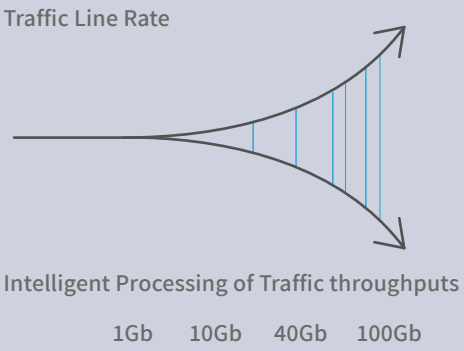
Product Highlights

Modular - Covers a range of areas and needs, with a set of modules that "mix and match," and can be changed in the field – and are integrated into a single, unified platform solution.

High Density - Handles connections to a greater number of services, as well as more network connection points with the small, cost-effective form factors of the N2 series.

High Versatility - Supports a wide variety of modules (fail-safe bypass, I/O ports, taps, data processing) and interfaces (1Gb, 10Gb, 40Gb, 100Gb) that leverage high throughput, fully connected, and non-blocking switching fabric, to ensure that any combination of modules and interfaces are supported at full line rate with no over subscription – and maintains line rate connectivity during full switching between any input and any output port.

Processor Accelerated - Built to handle the growing complexity of the network ecosystem and help IT professionals get more of their visibility adaptation layer, by offloading processing for service devices and hosted solution, and supporting increased network traffic throughput and processing needs



Addresses the growing gap in providing effective application layer processing, as traffic throughput increases.

N2 Features

Modular	• Mix and match any module into any Bay (see N2 Modules Datasheet) • N2 modules are hot swappable and can be changed in the field

Versatility	• 1.28TB of non-blocking switching fabric for simultaneous support of all ports/modules
	• Wide offering of modules supporting all of the advanced visibility adaptation layer building blocks, all data
	• rates from 100Mb to 100Gb - an integrated all-in-one platform:
	  • Integrated bypass - BypassP2 technology
	  • Integrated packet broker - pioneering packet heartbeat technology
	  • Integrated passive taps
	  • Packetron processor acceleration

 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 and VLAN support
	• Flexible multi load balancing regimes
	• User de ned virtual bypass segments on any port
	• Hardware generated, user configurable packet heartbeat (ms resolution)
	• Ingress and egress filters and internal traffic loopback for efficient creation of sophisticated multi-level filters

Density	• Up to 160Gbps per Bay (320Gbps for double bay moules) • All modules connect to non-blocking switching fabric for optimal and efficient adminstration of traffic
Management	• Robust Command Line Interface (CLI) • User-friendly, web-based user interface • REST API for third-party integration and support • Auto discoverable and managed by NVC

Specifications

	N2 2845	N2 2847
Form Factor	1U	2U
Bays	4 x 1Bay 2 x 2Bay any slot combination of single-bay and double-bay modules	8 x 1Bay 4 x 2Bay any slot combination of single-bay and double-bay modules
Switching Fabric	1.28TB bi-directional	1.28TB bi-directional

For more information, see the N2 Series and N2 Modules data sheets. All specifications are subject to change without notice.

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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