

N2 series: Multi-purpose network visibility and security platform

Niagara's cutting edge multi-purpose N2 series is the ultimate visibility solution that enables flexible operations with optimized Total Cost of Ownership (TCO) for NetOps and SecOps teams.

N2 series provides a single multi-purpose modular platform that covers all of the visibility adaptation scenarios. The N2 series can be populated with a wide range of high capacity, highly versatile, processor-accelerated modules that enable Open Visibility Platform™ that can host 3rd party applications and expand traffic intelligence all the way to the application layer. With a modular design, it supports advanced FabricFlow™ visibility technology capabilities and features including network TAP, bypass, packet broker, and Network Intelligence applications.

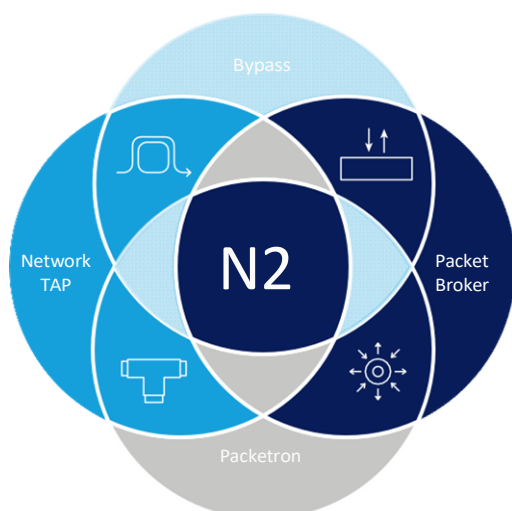


N2 2847 Chassis



N2 2845 Chassis

All-in-One "Swiss Army Knife" Visibility Solution



Product Highlights

Multi-purpose modular platform

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 visibility solution.

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.

Packetron™ 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. Packetron offers a wide selection of Network Intelligence applications, including Deduplication, Data masking, Application Filtering, RegEx, SSL decryption, Mobile Subscriber-aware GTP tunnel handling and many more.

- Up to four Packetron modules can be deployed with the N2 2847 for 320Gbps processing
- Up to two Packetron modules in the 2845 for 160Gbps

Open Visibility Enabled

- Network Intelligence applications
- 3rd Party virtual applications

Clustering Capabilities

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

N2 series chassis

Multi-purpose network visibility and security platform

The 2847 and 2845 chassis are part of the N2 series, Niagara's advanced, next-generation packet brokers, designed to meet the challenges of creating a robust visibility adaptation layer. As part of the highly scalable architecture of the N2 series, chassis can be configured as independent visibility nodes or as an NVC managed cluster of visibility fabrics with a flexible range of modules.

N2 series modules

Modules are available in a wide range of port densities, port types and visibility layer functionality. By mixing and combining different modules, the N2 series fulfills its role as a modular, multi-purpose visibility and security platform to enable a wide range of network visibility intelligence use cases.

Each 1U row supports four hot swappable bays, each designated as a single-width bay (1-width bay). The 2U N2 2847 features two rows for a total of eight bays, and the 1U N2 2845 features one row with a total of four bays.

Modules come in single-width bay size and double-width bay size. Users can mix and match modules to meet their needs, where a double-width bay module can dynamically fit into the space of any two adjacent single-width bays.

Niagara Networks' FabricFlow™ technology, which is at the core of the system's exhaustive packet broker functionality, is responsible for mapping traffic flow relationships between source and destination ports. This technology resides directly on the N2 platform switching fabric.

Packetron™

Your path to an Intelligent Visibility Layer

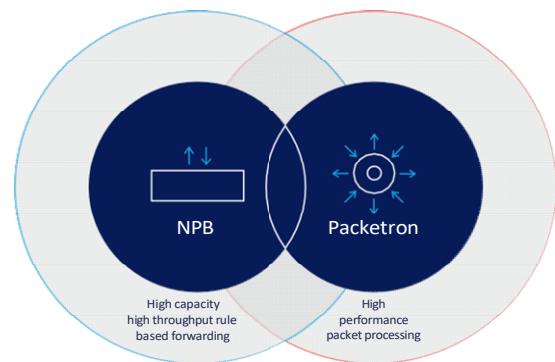
Niagara Networks has recognized that the increase in data speed and the increase in sophistication required from network tools and applications is creating an expanding gap in the effective processing of the network tool's performance. To meet this challenge, the network visibility layer and the security visibility layer need to provide network intelligence. Niagara's Network Intelligence will efficiently offload processing tasks from the network appliances to the visibility layer and introduce new speciality capabilities in decryption and threat

detection not commonly associated with the visibility layer. Niagara's Network Intelligence is fulfilled by the Packetron.

The Packetron - a packet acceleration module - is designed to meet these challenges. The Packetron's packet processor module can be optionally offered in the N2 modular packet broker series.


Network Packet Broker + Packetron combo power multiplier

Combining the Packetron with the NPB provides a power multiplier, achieving a more powerful solution than each one of the solutions independently.



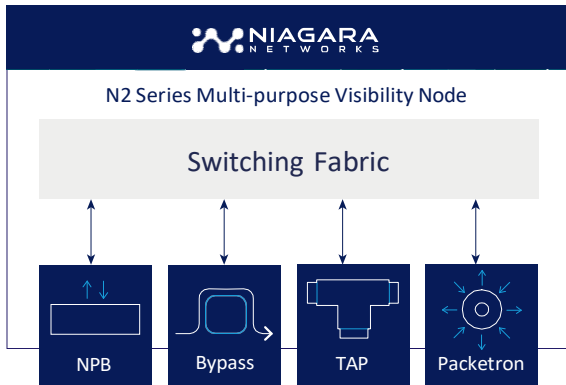
NPB and Packetron power multiplier
Combining Packet broker functionality with application layer agility.

Packetron offers a wide selection of Network Intelligence applications and Open Visibility Platform (OVP) applications. OVP enables the user to load and run best-of-breed 3rd party partner applications on the Packetron. The user can select which applications will be loaded on each Packetron hardware module to meet their deployment needs.

The NPB  Packetron combo also reduces opex and total cost of ownership. Without the Packetron the user would potentially need to deploy multiple boxes with additional wiring and maintenance complexity, thereby increasing vulnerability. Moreover the Packetron facilitates pay-as-you-grow deployment scenarios and investment protection. Dedicated software applications with advanced capabilities in cyber security or monitoring, performance and troubleshooting can be dynamically added as you need them.

With Packetron, Niagara Networks continues its excellence in expanding the envelope of the network visibility layer. With the Packetron, users can truly get the right traffic to the right tool. With the power of the Packetron your network visibility layer will be able to handle TLS decryption, Deduplication and more.

Applications running on the Packetron automatically and seamlessly benefit from aggregation, replication, filter, load balance, inline bypass and other traffic manipulation capabilities of a fully featured NPB. By connecting the Packetron hardware module to the non-blocking switching core, traffic from any port and to any port can benefit from Packetron applications.



The Packetron module occupies a single bay in the N2 series modular multi-purpose packet brokers. This provides superior packet processing density per form factor. Input traffic from packet broker ports, bypass ports or TAP ports reach the Packetron via the non-blocking switching fabric, enabling the Packetron to provide traffic intelligence application for both out-of-band monitoring deployments and for inline deployments.

A Network Packet Broker is powered by a switching fabric that is able to deliver great processing and forwarding capabilities on packets, up to Layer 4. The Packetron module is directly connected to the host packet broker switching fabric.

The Packetron is able to handle sophisticated application layer

The Packetron Difference

Scalable Performance

- Packet acceleration in a single bay module
- Up to four Packetron modules can be deployed with the N2 2847 for 320Gbps processing
- Up to two Packetron modules in the 2845 for 160Gbps

De-coupled Software Architecture

- Upload new software to the Packetron without impacting the host NPB software

Open Visibility Platform

- Supports 'open garden' application architecture
- 3rd party partners can deploy and offer their applications

Intuitive Configuration

- Apply Packetron applications on any selected flow in a hassle-free intuitive user interface
- Packetron applications are seamlessly integrated with Niagara's intent based FabricFlow™ technology

and L7 level processing on packets, sessions and flows.

The Packetron has a nominal processing capacity of 80GbE. Actual performance may vary based on the application and or number of applications that are run simultaneously on a single Packetron module. As a modular, field replaceable module, users can add Packetron modules to satisfy their processing and application needs.

Niagara's Packetron Architecture Advantage

Profiles

Users can define multiple profiles of application configurations. These profiles can then be selectively applied as part of the FabricFlow™ on to different traffic flows, or different profiles can be applied, based on deployment needs, to the same traffic flow.

Passthrough

Passthrough mode is a unique user configurable option where the Niagara Packetron Architecture is able to dynamically detect levels of congestion and forward packets through the Packetron rather than process the packet and potentially have it dropped because of resource constraints. This may be especially important where the user's priority is to minimize the risk of dropping packets at a tradeoff of certain application processing.

Optimal Core Efficiency

When running multiple packet processing functionalities and applications on a Packetron, the number of cores allocated for data traffic processing needs to be optimized.

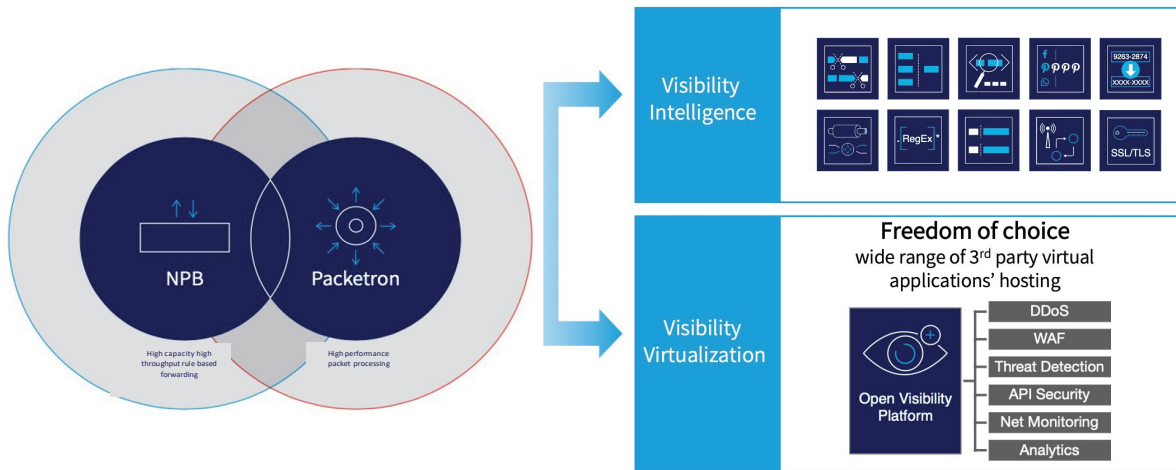
The Niagara Packetron Architecture is able to dynamically load balance incoming traffic so that traffic throughput processing will be maximized and optimized. This is done 'behind the scene' without burdening the user with cumbersome manual configurations and compromised performance. Moreover, in specific applications significant performance improvement can be achieved by parallel processing and reassignment of cores. For those applications we offer dedicated 'stand-alone' modes that are user selectable based on their deployment needs.

Deployment Hub - Freedom of Choice

Use the Packetron as a deployment hub for multiple Network Intelligence (NI) utility processing applications. Network Intelligence applications will be applied at a user defined logical sequence on the data traffic. Applying Network Intelligence applications in sequence on the data traffic is intuitive and does not require additional complex manual configurations.

Open Visibility Platform™ - the Power of Agile Visibility

Niagara's Open Visibility Platform (OVP) is the flexible deployment hub for cutting edge applications giving you the freedom to choose and spin-up the best solution for your SecOps and NetOps needs. Integrated intelligent switching fabric capabilities empowered by visibility intelligence ensure that the solution will get the right traffic in the right way, without further encumbering the operations of deploying a new solution.



Address the NetOps and SecOps challenge

The ability to deploy a security or a networking solution in a network has been a long, complicated process – one of the least agile. Niagara's Open Visibility Platform brings security and network operations together, so security and networking teams can focus on common objectives instead of operating independently with different goals. The platform removes restrictions of deploying new network technologies and can host any virtualized solution, old or new. It can also accommodate proprietary solutions and ad-hoc solutions used temporarily for testing purposes. Open Visibility Platform brings a higher level of agility to security and offers the optimal choice built on the principles of digital transformation to deliver the following benefits to visibility layer.

Open Visibility Platform Benefits to Visibility Layer

Freedom to Choose

Not tied to closed garden offerings of a particular vendor.

Deployment Hub

Enables agility and flexibility by providing a deployment hub to easily host and serve multiple security and networking solutions. The deployment hub is a high performance/high reliability appliance that meets stringent demands for the core networking reliability, scalability and performance required by networking teams.

Getting the Right Traffic the Right Way

Intelligently deliver traffic and configure policies and rules to establish traffic flows to and from solutions. Determine the logical sequence of traffic being sent to the hosted applications as needed. Policies, actions and traffic steering can be triggered to address host application failure and failover conditions.

Deep Traffic Intelligence and Processing

Powerful combination of traffic intelligence and data processing. Processing utility functions, such as deduplication and decryption performed within OVP secure and low latency domain - carrying out these tasks centrally on a visibility platform can boost performance of individual security applications or devices.

Security Tool Chaining

The platform enables intelligent tool chaining, which is important for establishing the order of security operations. There has to be logical sequencing and management of network security. For example, a web or application firewall should be in a path before an intrusion detection system (IDS) or an intrusion prevention systems (IPS), and each must be treated differently. In addition, network requirements can be upheld to ensure performance and availability and prevent solutions from impairing the network. This way, IT can stay one step ahead of potential problems or blind spots as the environment changes.

Summary - N2 features and specifications

N2 Features	
Modular	<ul style="list-style-type: none"> Mix and match any module into any bay <p><i>Note: For Packetron module restrictions, please refer to the user guide.</i></p>
Versatility	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Integrated bypass - BypassP2™ technology- pioneering packet heartbeat technology Packet broker Integrated passive TAPs Compatible with SFP, SFP+, QSFP+ and QSFP28 MSA-compliant transceivers as offered by Niagara Networks
Packet and flow processing	<ul style="list-style-type: none"> Mapping traffic flow relationships between source and destination ports: <ul style="list-style-type: none"> Aggregate traffic to a single port Replicate traffic to multiple ports Sophisticated filtering - L2-L4, User Defined Byte (UDB) Tunnel handling: GTP, GRE, MPLS, VXLAN, VLAN Multiple flexible load balancing regimes <ul style="list-style-type: none"> Layer 2 to Layer 4 hashing criteria Port utilization based load balancing Session stickiness Virtual bypass segments for advanced service chaining Hardware generated, user configurable packet heartbeat for sub 50ms bypass failover Ingress and egress filtering, internal traffic loopback for efficient creation of sophisticated multi-level filters Filter templates for rapid deployment and filter re-use Port fan-in and fan-out for optimized interface deployment Port configuration for listen-only, transmit-only and bi-directional deployment MAC header rewrite
Open Visibility	<ul style="list-style-type: none"> Packetron processor acceleration enabled Open Visibility Platform <p>Open Visibility Intelligence Packet Slicing Advanced Flow Slicing De-Duplication Netflow/IPfix generation L7 / Application Layer Filtering Data Masking GTP Header Stripping Correlated and uncorrelated GTP load balancing SSL/TLS decryption Regular Expression searching and filtering ERSPAN tunnel termination</p> <p>Open Visibility Virtualization Application virtualization and integration</p>
Management	<ul style="list-style-type: none"> SNMP v1, v2, v3 support Local, RADIUS, and TACACS+ support (members and groups) Intuitive, web-based user interface Granular access control features Syslog REST API for third-party integration and support Auto discoverable and managed by NVC Manage unlimited number of nodes in a cluster as a single virtual node by using NVC

Specificationc		
	N2 2845	N2 2847
Form Factor	1U	2U
Bay	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	2.56Tbps bi-directional

Summary - N2 specifications, emissions and safety

Specification	2845	2847
Height	1.7in (43.31mm)	3.41 in (86.61mm)
Length	26.12 in (663.49mm)	26.12 in (663.49mm)
Width	17.15 in (438.15mm)	17.15 in (438.15mm)
Weight	64 lb (29.03 kg)	64 lb (29.03 kg)
Operating Temp	32-104°F (0-40 °C)	32-104°F (0-40 °C)
Operating Humidity	5-85%	5-85%
Max Power	459.55 Watts	754.69 Watts
Raw Power	629.08 Watts	1033.10 Watts
BTU/hr	1959.252	1959.252
Air Flow	Front to Back	Front to Back
Altitude	15,000 ft	15,000 ft
AC	100-240V, 50-60Hz, 10-5A	100-240V, 50-60Hz, 10-5A
DC	48-60V, 19-15A	48-60V, 19-15A
Max Current	4.60A @ 100VAC 9.57A @ 48VDC	7.55A @ 100VAC 15.72A @ 48VDC

	Emissions	Immunity
2845	FCC Part 15B, ICES 003, EN55032	EN55024
2847	FCC Part 15B, ICES 003, EN55032	EN55024

	Safety	Certification
2845	UL/CSA 60950-1, EN 60950-1, IEC 60950-1 CB Scheme with all country differences	North America (NRTL) European Union (EU) VCCI (Japan)
2847	UL/CSA 60950-1, EN 60950-1, IEC 60950-1 CB Scheme with all country differences	North America (NRTL) European Union (EU) VCCI (Japan)

Summary - N2 series modules

Description	Part Number
<p>inPassive for 100BaseFX Fiber Supports 4 network links. Integrated passive splitters. Integrated transceivers on all network ports, bring traffic to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	<p>N2-SG-100FX-8PTP-S-xx xx– specify required network/monitor split ratio 90– split ratio 90/10 70– split ratio 70/30 50– split ratio 50/50</p>
<p>inBroker 1000BaseT Copper RJ45 8 ports, 4 port pairs. Each pair can be individually software configured to function as either a TAP, a bypass or a packet broker. Any combination of modes is possible. Module occupies single bay.</p>	<p>N2-SG-1G-MP-8TAP-S</p>
<p>inBroker 1000BaseT Copper RJ45 24 ports, 12 port pairs. Each pair can be individually software configured to function as either a TAP, a bypass or a packet broker. Any combination of modes is possible. Module occupies double bay.</p>	<p>N2-SG-1G-MP-24TAP-D</p>
<p>inBroker for 1/10Gb Supports 8 network I/O ports. Ports are connected to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	<p>N2-SG-10G-8PBP-S</p>
<p>inBroker for 1/10Gb Supports 24 Network I/O ports. Ports are connected to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies double bay.</p>	<p>N2-SG-10G-24PBP-S</p>
<p>inBroker for 40Gb Supports 4 network I/O ports. Ports are connected to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	<p>N2-SG-40G-4PBP-S</p>
<p>inBroker for 100Gb Supports 1 network I/O port. Port is connected to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	<p>N2-SG-100G-1PBP-S</p>
<p>inBypass for 1/10Gb Fiber Supports 2 full bypass segments, each with 2 network ports and 2 appliance ports. Integrated dual rate (1/10Gb) transceivers, on all network ports, bring traffic to the non- blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	<p>N2-SG-10Gyy-2BPB-S yy- specify network side fiber type SR: SR multi mode 50/125 SR5: SR multi-mode 62.5/125 LR: LR single mode</p>
<p>inBypass for 1/10Gb Fiber Supports 6 full bypass segments, each with 2 network ports and 2 appliance ports. Integrated dual rate (1/10Gb) transceivers, on all network ports, bring traffic to the non- blocking switching fabric backplane for use by any of the other modules. Module occupies double bay.</p>	<p>N2-SG-10Gyy-6BPS-D yy- specify network side fiber type SR: SR multimode 50/125 SR5: SR multi-mode 62.5/125 LR: LR single mode</p>
<p>inBypass for 40Gb Fiber Supports 1 full bypass segments, with 2 network ports and 2 appliance ports. Integrated 40G transceivers, on all network ports, bring traffic to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	<p>N2-SG-40Gyy-1BPS-S yy- specify network side fiber type SR4: SR multimode 50/125 LR4: LR single mode</p>

Summary - N2 series modules

Description	Part Number
<p>inBypass for 40Gb BiDi Fiber</p> <p>Supports 1 full bypass segments, with 2 network ports and 2 appliance ports. Integrated 40G BiDi transceivers, on all network ports, bring traffic to the non- blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	N2-SG-40GBDSR-1BPS-S
<p>inBypass for 100Gb Fiber</p> <p>Supports 1 bypass network link (2 network ports). Integrated 100Gb transceivers, on all network ports, bring traffic to the non-blocking switching fabric backplane for use by any of the other modules. Appliance port should be connected by the use of a separate module. Module occupies double bay.</p>	N2-SG-100Gyy-1BPP-D yy- specify network side fiber type SR4: SR multimode 50/125 LR4: LR4 Single mode
<p>inBypass for 100Gb Fiber plus 8x 1G/10G packet broker ports.</p> <p>Supports 1 bypass network link (2 network ports). Integrated 100Gb transceivers, on all network ports, bring traffic to the non-blocking switching fabric backplane for use by any of the other modules. Appliance port should be connected by the use of a separate module. Module occupies double bay.</p>	N2-SG-100Gyy-1BPP+8-D yy- specify network side fiber type SR4: SR multimode 50/125 LR4: LR4 Single mode
<p>inPassive for 1/10Gb Fiber</p> <p>Supports 4 network links and integrated passive splitters. Integrated dual rate transceivers, on all network ports, bring traffic to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	N2-SG-10Gyy-8PTP-S-xx yy– specify Network side fiber type: SR – multimode 50/125 LR – singlemode xx- specify split ratio 90 – split ratio 90/10 80 – split ratio 80/20 70 – split ratio 70/30 60 – split ratio 60/40 50 – split ratio 50/50
<p>inPassive for 40Gb Fiber</p> <p>Supports 2 network links and integrated passive splitters. Integrated dual rate transceivers, on all network ports, bring traffic to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies single bay.</p>	N2-SG-40Gyy-4PTP-S-xx yy- specify Network side fiber type: SR- multimode 50/125 LR- singlemode xx- specify split ratio 90– split ratio 90/10 80 – split ratio 80/20 70– split ratio 70/30 60 – split ratio 60/40 50– split ratio 50/50
<p>inPassive for 100Gb Fiber</p> <p>Supports 2 network links and integrated passive splitters. Integrated dual rate transceivers, on all network ports, bring traffic to the non-blocking switching fabric backplane for use by any of the other modules. Module occupies double bay.</p>	N2-SG-100Gyy-2PTP-D-xx yy - specify Network side fiber type: SR - multimode 50/125 LR - singlemode xx- specify split ratio 90– split ratio 90/10 80 – split ratio 80/20 70– split ratio 70/30 60 – split ratio 60/40 50– split ratio 50/50
<p>Packetron</p> <p>Packetron processor acceleration module. Up to 80Gbps processing. Module includes Packet Slicing software package licensing. Module occupies single bay.</p>	N2-SG-PKTRN-yy-S yy- specify Packetron type: A- 32G RAM, 32G SSD A1- 64G RAM, 512G SSD A2- 96G RAM, 512G SSD

Summary - N2 chassis ordering details

N2 series - 2845 chassis		
Part Number	Description	Ordering Details
N2-2845-S2-MN-xx	2845 main chassis. S2 version. Enhanced modularity. Supports up to 4 high performance bays. Includes two power supply units and four fan units.	xx - specify preferred power supply option AC – Dual AC redundant power supply DC – Dual DC redundant power supply
N2-2845-S2-MN-BP-xx	2845 main chassis. S2 version. Supports up to 4 high performance bays. Includes two power supply and four fan units. Only supports Bypass modules and functionality.	xx - specify preferred power supply option AC – Dual AC redundant power supply DC – Dual DC redundant power supply
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.	

N2 series - 2847 chassis		
Part Number	Description	Ordering Details
N2-2847-S2-MN-xx	2847 main chassis. S2 version. Enhanced modularity. Supports up to 8 high performance bays. Includes two power supply units and three fan units. Designed for NEBS3.	xx - specify preferred power supply option AC – Dual AC redundant power supply DC – Dual DC redundant power supply
N2-2847-S2-MN-BP-xx	2847 main chassis. S2 version. Supports up to 8 high performance bays. Includes two power supply and three fan units. Only supports Bypass modules and functionality.	xx - specify preferred power supply option AC – Dual AC redundant power supply DC – Dual DC redundant power supply
N2-UG-BP-LC	Upgrade license from Byass only mode to full functionality.	
800W-PSU-AC	Field replaceable power supply unit AC - 800W.	
750W-PSU-DC	Field replaceable power supply unit DC - 750W.	
NN-FAN-2	Field replaceable fan unit for 2U products.	

Summary - Packetron™ ordering details

Packetron Processor - Acceleration Module*		Part Number
Acceleration Module		
	Up to 80Gbps processing. Includes Packet Slicing software licensing. 32GB RAM. 32GB SSD.	N2-SG-PKTRN-A-S
	Up to 80Gbps processing. Includes Packet Slicing software licensing. 64GB RAM. 512GB SSD.	N2-SG-PKTRN-A2-S
	Up to 80Gbps processing. Includes Packet Slicing software licensing. 96GB RAM. 512GB SSD.	N2-SG-PKTRN-A3-S
Network Intelligence Applications**		Part Number
Packet Adaptation		
Packet Slicing	Slices packet payload based on user configuration. Included with Packetron processor acceleration module.	N2-LC-PKTRN-PCKSL
De-duplication	Removes duplicate packets based on full packet comparison. Users can configure window size and selectable header fields that will be excluded in the de-duplication process.	N2-LC-PKTRN-DDUP
Header stripping	Header stripping support: ERSPAN, GTP.	N2-LC-PKTRN-HDR-STP
Network Optimization		
Pattern Filtering	Pattern filtering provides expanded capabilities for filtering and data masking applications. Patterns are defined using regular expression language. Pattern matching can be applied on the header or on the payload. Supports packet and session based filtering.	N2-LC-PKTRN-RGX-EXP
Application Filtering (DPI)	Application Filtering based on deep packet inspection (DPI). Filtered applications can be applied for monitoring and inline deployments. This is a subscription based license. (includes 3 years subscription)	N2-LC-PKTRN-APPFLT
Application filtering (1yr Subscription)	One year subscription for Application Filtering. Requires N2-LC-PKTRN-APPFLT license. Includes updates for one year.	SP-N2-PKTRN-APPFLT-1
Security Enhancement		
Data Masking	Data masking of specified byte(s) length in the packet. Multiple mask settings are supported.	N2-LC-PKTRN-DMASK
Netflow/IPFIX	Generates Netflow/IPFIX report to Collectors. Includes support for Niagara's custom reports for DNS, TLS/SSL, Radius and more.	N2-LC-PKTRN-NETFL
TLS Decryption		
TLS Decryption Passive TAP	TLS decryption for passive TAP deployment. Supports decryption configuration and filtering.	N2-LC-PKTRN-PASSL
TLS Decryption Passive MiTM	TLS decryption for passive inline deployment (OOB appliances with MiTM). Supports TLS 1.2 and 1.3. Supports decryption configuration and filtering. License includes TLS Decryption Passive TAP.	N2-LC-PKTRN-PBSSL
TLS Decryption Active MiTM	TLS decryption for active inline deployment (inline appliances with MiTM). Supports TLS 1.2 and 1.3. Supports decryption configuration and filtering. License includes TLS Decryption Passive Tap and TLS Decryption Passive MiTM.	N2-LC-PKTRN-INSSL

	Description	Part Number
Subscriber Aware Optimization		
Mobile Subscriber filtering and loadbalancing	Mobile Subscriber-aware (3G/4G) filtering. Correlated and uncorrelated load balancing.	N2-LC-PKTRN-MS4GTP
Open Visibility Platform		
Open Visibility Platform	Open Visibility Platform license add-on. Enables the Packetron to host any 3rd party virtualized image based on VMware ESXi. VMware license not included.	N2-LC-PKTRN-OVP

Notes: * License per Packetron module ** Packetron processor acceleration module sold 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 network TAPs, bypass elements, packet brokers and a unified management layer.

For more information please visit us at www.gch-services.com/network-visibility-and-analysis/.

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