



NIAGARA 281x FAMILY

Multi-segment 10 Gigabit Intelligent Active Bypass Switch

PLUG & PLAY

The Niagara 281x family is Intelligent Active Bypass Switches for 10Gb networks. The Niagara Bypass Switch is designed to integrate with UTM, firewall, WAN Acceleration, QoS, IPS, IDS and Enterprise IT security appliances. Each of these systems can be configured for various segment density options and media configurations.

When the Niagara Bypass detects an appliance malfunction, in-line traffic continues to flow through the network link, but is no longer routed through the in-line device. This ensures that network devices can be removed and replaced without network downtime. Once the system is back up or the power is restored to the appliance, network traffic is seamlessly diverted back to the in-line device, allowing it to resume its critical functions.

Alternatively, if an appliance connected to a primary segment fails and a secondary appliance is available (for multiple segment bypass switches only), the bypass switch will pass all network traffic through the defined secondary appliance providing redundant fail-over with minimal packet-loss until the primary appliance is restored.

The active bypass enables plug and play connectivity, includes an auto heartbeat and does not require additional drivers to be installed on connected appliances and provides seamless failover in the case of software crash, link loss or hardware failure. The unit features management via an extensive web GUI or CLI which enables flexibility and multiple configurations. The Niagara 281x Bypass product family also has passive bypass support that provides an additional layer of protection in the case of a power failure, preserving network connectivity.



ESSENTIAL FEATURES

- Active switching of traffic in case of system failure
- Passive Bypass which is essential during power loss
- High availability failover capabilities (for multiple segment bypass switches only)
- Additional Active TAP ports for Network monitoring available
- Additional Passive TAP ports for Network monitoring available
- Dedicated Management Port and Console Port
- NTP support

MANAGEMENT SOFTWARE

- Web based management via a secure HTTPS connection
- Extensive CLI interface and WEB based management (GUI)
- SSH connectivity over the management port
- SNMP traps on defined events
- E-mail notification on defined events
- TACACS+ for centralized authentication
- Syslog notification support

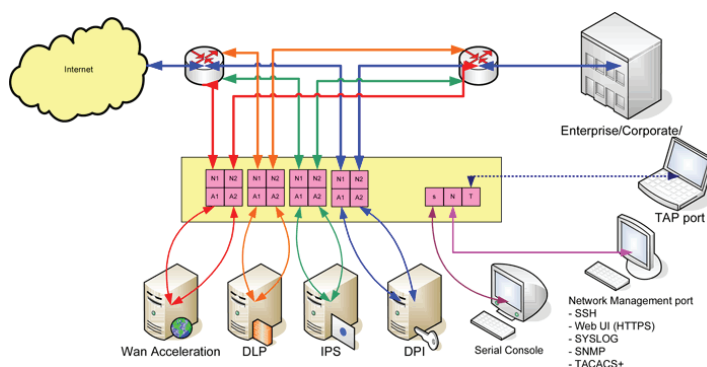
CERTIFICATIONS

- Full RoHS compliance
- EMC, FCC Class A, UL (Safety) Certifications

EXTENSIVE BYPASS CONFIGURATION

- Bypass - fail open or fail close
- Bypass heartbeat custom configurations including:
 - » Heartbeat pattern
 - » Heartbeat frequency
- Bypass on link loss
- Configuration of the number of heartbeat losses prior to activating the bypass
- Configuration of the number of heartbeats prior to disabling the bypass

APPLICATION



2818 FAMILY MATRIX	10 Gbps	10 Gbps	10 Gbps	10 Gbps	10 Gbps	10 Gbps	10 Gbps	10 Gbps	10 Gbps
PRODUCT FAMILY NAME	2818	2814	2812	2818T	2814T	2812T	2818PT	2814PT	2812PT
Segments	4	2	1	4	2	1	4	2	1
Media Configuration	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber
Heartbeat	✔	✔	✔	✔	✔	✔	✔	✔	✔
Passive Bypass	✔	✔	✔	✔	✔	✔	✔	✔	✔
High Availability	✔	✔	✔	✔	✔		✔	✔	
Active TAP				✔	✔	✔			
Passive TAP							✔	✔	✔
Redundant Hot-Swappable Power Supply	✔	✔	✔	✔	✔	✔	✔	✔	✔

ENVIRONMENTAL

Operating Temperature	0 to 40 °C or 32 to 104 °F
Operating Humidity	5 to 95%
Maximum power consumption	155 Watts
Airflow	Front to Back

DIMENSIONS

	mm	inches
Length	508.00	20.00
Height	44.45	1.75
Width	438.15	17.25



ABOUT NIAGARA NETWORKS

Niagara Networks is a Network Visibility industry leader, with emphasis in 1/10/40/100 Gigabit systems including Network TAPs, External Bypass Switches, and Network Packet Brokers that integrate with monitoring systems, inline networking appliances, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances. Formerly part of Interface Masters, a Silicon Valley based network solutions company, Niagara Networks recently spun off from Interface Masters to focus on its core competencies, and developed an independent company identity.

Niagara Networks offers the highest port-density systems, the most complete hybrid systems, and the highest quality and feature-rich Bypass Solutions in the market. Niagara's unique and modular designs, innovative next generation Network Visibility technology, including the 100 Gigabit-capable Network Packet Broker with hybrid functionality, and the ability to tailor systems to exact customer specifications, allow it to lead the industry with high quality, innovative products and exceptional service. For more information, please go to: www.niagaranetworks.com

PRODUCT LINE

- NIAGARA PACKET BROKERS
- BYPASS SOLUTIONS
- NETWORK TAPs
- ADVANCED PACKET MANAGEMENT

CONTACT

+1 408 622 0354

+1 408 213 7529

sales@niagaranetworks.com

150 E. Brokaw Rd., San Jose, Ca 95112

www.niagaranetworks.com

