Interface Masters
T E C H N O L O G I E S
Innovative Network Solutions

Niagara 2818 Product Family
Multi-segment 10 Gigabit Intelligent Active Bypass
Plug and Play

Overview

The Niagara 2818 Bypass product family supports an array of Intelligent Active Bypass Switches for 10G networks. 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 possesses management functionality that can be utilized via an extensive web GUI or CLI which enables flexibility and multiple configurations. The Niagara 2818 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. 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.

Essential Features

Niagara Bypass Switch provides major features that are essential in today's data centers:

- 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 available for Network monitoring available on various models
- Additional Passive TAP ports available for Network monitoring available on various models
- Redundant power supplies for maximum reliability
- Dedicated Management Port and Console Port
- Extensive CLI and WEB based management
- SSH and HTTPS for secure Management
- TACACS+ authentication and syslog support
- NTP support
- EMC, FCC Class A, UL (Safety) Certifications

Extensive Bypass Configuration

Niagara Bypass Switch allows for multiple bypass configurations including:

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

Highly Reliable

Niagara Bypass Switch utilizes two redundant internal power supplies for maximum reliability.

Niagara Bypass Switch deploys passive bypass along with active switching for fail safe operation.

Management Software

Niagara Bypass Switch management supports:

- Web based management via a secure https:// Connection
- Extensive CLI interface
- SSH connectivity over the management port
- SNMP traps on defined events
- E-mail notification on defined events
- TACACS+ authentication
- Syslog support

These capabilities provide a simple, secure and easy way to maintain, monitor and manage the appliance and the network.
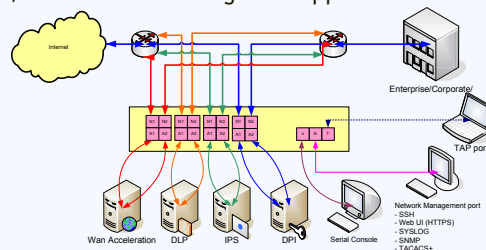
Niagara 2818 Family Product Matrix

Product Family Name	Niagara 2818	Niagara 2814	Niagara 2812	Niagara 2818T	Niagara 2814T	Niagara 2812T	Niagara 2818PT	Niagara 2814PT	Niagara 2812PT
	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
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 45 ºC or 32 to 113 ºF
Operating Humidity	5 to 95%
Maximum Power Consumption (Depends on system)	51 Watts to 230 Watts
Airflow	100 lf/m

Dimensions

	mm	inches
Length	508.00	20.00
Height	44.45	1.75
Width	438.15	17.25

Product Line

- Network Interface Cards with Bypass
- Network Interface Cards without Bypass
- External Bypass Products
- SSL/IPSec Cards
- Embedded Switches
- Embedded Platforms
- Development Tools
- TAP Systems

About Interface Masters Technologies, Inc.

Interface Masters Technologies is a leading vendor in the network monitoring and high speed networking markets. Based in the heart of the Silicon Valley, Interface Masters' expertise lies in Gigabit, 10 Gigabit and 40 Gigabit Ethernet network access and network connectivity solutions that integrate with monitoring systems, inline networking appliances, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances.

Flagship product lines include hardware load-balancers, specialized 10GE internal server adapter cards, switches, 10 Gigabit external intelligent Network TAP and Bypass and failover systems that increase network visibility capabilities, network reliability and inline appliance availability.

Company Headquarters is located in San Jose, CA with satellite offices in Hong Kong and Europe.

Contact Interface Masters

150 East Brokaw Rd, San Jose, CA 95112
Phone: 408-441-9341 x122
Fax: 815-364-0888
Email: sales@interfacemasters.com
Web: www.interfacemasters.com

Made in the USA

Interface Masters
TECHNOLOGIES
Innovative Network Solutions