

Overview

The Niagara 2299 is a Modular External Active Bypass possessing active bypass functionality for seamless failover, TAP functionality for traffic monitoring, and extensive management capabilities. Niagara 2299 supports maximum flexibility and scalability by offering four independent Gigabit Ethernet interface segments with various media combinations including copper, single-mode fiber, multi-mode fiber, multi-mode fiber to single-mode fiber conversion and copper to fiber conversion options. The intelligent bypass also enables plug-and-play connectivity, includes an auto heartbeat and requires no additional drivers to be installed on connected appliances.

Niagara 2299 guarantees uninterrupted network connectivity on each of its four segments in instances of power failures or system crashes. IT managers and Service Providers that manage Inline systems like Deep Packet Inspection (DPI), Intrusion Detection & Prevention, Unified Threat Management, WAN acceleration, Firewall, Load balancing, and VPN gateway devices can utilize Niagara 2299 to proactively disconnect Network Appliances for maintenance or replacement. This ensures that hardware/firmware can be updated or new upload rules and signatures can be loaded without network downtime.



The system provides flexible and intuitive CLI and GUI management features including secure web UI via an HTTPS connection, secure shell (SSH), SNMP, e-mail notification for special events, and bypass method configuration. An authentication client capable of interfacing with authentication servers like TACACS+ is also supported. In addition, the bypass system possesses Syslog support, enabling consolidation of log data from various systems into a central repository.

Essential Features

Niagara 2299 Modular External Active Bypass provides features that are essential in today's data centers including:

- Active switching of traffic in case of system failure
- Passive Bypass which is essential during power loss
- Plug and play – no additional drivers required on inline devices
- Supports 1, 2, 3 or 4 segment options per 1U system
- TAP functionality for passive traffic monitoring
- 10/100/1000 TX (Copper), SX (Multi mode) & LX (Single mode) Support
- Flexible Deployment options including Copper, Multi-Mode Fiber, Single-Mode Fiber and Copper-to-Fiber Conversion
- Redundant Power supplies for maximum reliability
- Extensive CLI and WEB based management
- SSH and HTTPS for secure Management
- Email Notification upon System Events
- TACACS+ authentication
- Syslog support
- RoHS Compliant
- EMC, FCC Class A, UL (Safety) Certifications

Extensive bypass configuration

Niagara 2299 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 2299 utilizes two redundant external power supplies for maximum reliability.

Niagara 2299 deploys passive bypass along with active switching for fail safe operation.

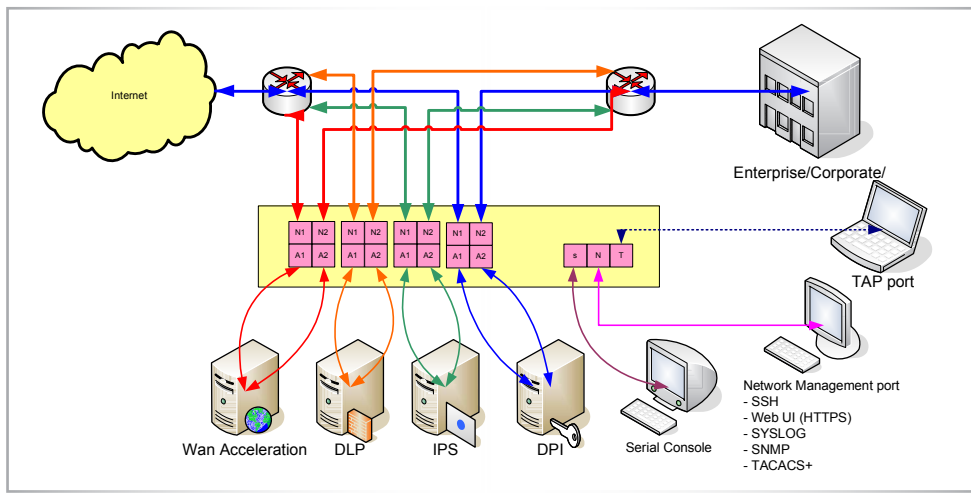
Management Software

Niagara 2299 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.

Applications



Ordering Part Numbers

| Part Number | Description |
|------------------|---|
| Niagara 2299-4TX | Four Copper Segments 1 Gigabit External Active Bypass, 1U form factor |
| Niagara 2299-4SX | Four Multi-mode Fiber Segments 1 Gigabit External Active Bypass, 1U form factor |
| Niagara 2299-4LX | Four Multi-mode Fiber Segments 1 Gigabit External Active Bypass, 1U form factor |

Environmental

| | |
|---------------------------|----------------------------|
| Operating Temperature | 0 to 55 °C or 32 to 131 °F |
| Operating Humidity | 5 to 95% |
| Maximum Power Consumption | Less than 47W |
| Airflow | 100 lf/m |

Dimensions

| | mm | inches |
|--------|-------|--------|
| Length | 279.4 | 12 |
| Height | 44.5 | 1.75 |
| Width | 425.5 | 16.75 |

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.



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TECHNOLOGIES

Innovative Network Solutions