

Plug & Play

Niagara 2297A is a Gigabit Ethernet External Active Bypass Switch. The active bypass enables plug and play connectivity, includes an auto heartbeat and does not require additional drivers to be installed on connected appliances. The unit possesses management functionality that can be utilized via an extensive web GUI or CLI enabling flexibility and multiple configurations.

The Niagara 2297A passive bypass feature automatically switches the network traffic upon power failure of an attached in-line device, preserving network connectivity. The Niagara 2297A is designed to integrate with UTM, Firewall, WAN Acceleration, QoS, IPS, IDS and IT security appliances.

When Niagara 2297A detects an appliance malfunction such as a software crash, system failure or loss of power, the 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 or packet loss. 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.



Essential Features

Niagara 2297A 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
- Plug and play – no additional drivers required
- 10/100/1000 TX (Copper), SX (Multi mode) & LX (Single mode) Support
- Copper-to-Fiber Conversion Capabilities
- Full 1U and Half-Width Chassis Options
- Redundant power supplies for maximum reliability
- Dedicated Management Port and Console Port
- TAP Port for passive traffic monitoring of any port
- Extensive CLI and WEB based management
- SSH and HTTPS for secure Management
- Email Notification upon System Events
- TACACS+ authentication
- Syslog support
- NTP support
- Full RoHS compliance
- EMC, FCC Class A, UL Certifications

Extensive Bypass Configuration

Niagara 2297A allows for multiple bypass configuration and setup 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 the bypass
- Configuration of the number of heartbeats prior to disabling the bypass

Highly Reliable

Niagara 2297A utilizes two redundant external power supplies for maximum reliability.

Niagara 2297A deploys passive bypass along with active switching for fail safe operation.

Management Software

Niagara 2297A 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
- NTP support

These capabilities provide a simple, secure and easy way to maintain, monitor and manage the appliance and the network.

Ordering Part Numbers

Part Number	Description
Niagara 2297A-TX	1G External Active Copper Bypass Switch
Niagara 2297A-SX	1G External Active Multi-Mode Bypass Switch
Niagara 2297A-LX	1G External Active Single-Mode Bypass Switch
Niagara 2297A-TXSX	1G External Active Copper to Multi-Mode Bypass Switch
Niagara 2297A-TXLX	1G External Active Copper to Single-Mode Bypass Switch

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

About Us

Interface Masters Technologies is a leading vendor in the Bypass Networking market, based in the heart of the Silicon Valley. Interface Master's expertise lies in Gigabit and 10 Gigabit Ethernet networking solutions that integrate with monitoring, inline networking, central office, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances.

Flagship product lines include specialized internal server adapter cards, embedded switch cards, and external intelligent Network Bypass and failover systems that increase network reliability and inline appliance availability. Company Headquarters are located in San Jose, CA with satellite offices in Hong Kong, Germany and the UK.



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TECHNOLOGIES

Innovative Network Solutions