

Overview

Niagara 2851 is a Single segment 100 Gigabit Intelligent Active Bypass Switch with extensive failover/bypass capabilities. 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 which enables flexibility and multiple configurations. The Niagara 2851 is designed to integrate with UTM, Firewall, WAN Acceleration, QoS, IPS, IDS and Enterprise IT security appliances.

The Niagara 2851 supports 2 bypass technologies, passive bypass and active bypass. The passive bypass feature automatically switches the network traffic upon sensing power failure, preserving network connectivity. The active bypass mode is triggered when Niagara 2851 detects an appliance malfunction by the heartbeat technology, such as a software crash, system failure or loss of power, where the network traffic will continue flowing through the network link, and bypassing the appliance and will no longer be routed through the in-line device. This ensures that inline 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 inline functions.



Essential Features

Niagara 2851 provides major features that are essential in today's data centers:

- Active Bypass in case of inline system malfunction or failure
- Passive Bypass which is essential during power loss
- 100 Gigabit Single mode (LR4)
- Redundant, hot-swappable internal power supplies for maximum reliability:
 - » AC and DC support
- Dedicated Management Port and Console Port
- Extensive CLI and WEB based management
- SSH and HTTPS for secure Management
- TACACS+ authentication
- Syslog support
- NTP support
- Full RoHS compliance
- EMC, FCC Class A, UL (Safety) Certifications

Extensive Bypass Configuration

Niagara 2851 allows for multiple bypass configurations including:

- Bypass - fail open or fail close
- Bypass heartbeat custom configurations including:
 - » Heartbeat pattern
 - » Heartbeat frequency
 - » Heartbeat settings for failover and return to inline mode
- Bypass on link loss

Highly Reliable

- Niagara 2851 utilizes two redundant hot swappable power supplies for maximum reliability.
- Niagara 2851 deploys passive bypass along with active switching for fail safe operation.

Management Software

Niagara 2851 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.

Environmental

Operating Temperature*	0 to 45 °C or 32 to 113 °F
Operating Humidity*	5 to 95%
Maximum Power Consumption	550 Watts
Airflow*	200 lf/m

*Preliminary numbers

Dimensions

	mm	inches
Length	787.4	31
Height	437.89	17.24
Width	TBD	TBD

Ordering Part Numbers

Part Number	Description
Niagara 2851-LR4	Single Segment 100G Bypass Switch

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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