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

Niagara 2831 Family
Single Segment 40 Gigabit
Intelligent Active Bypass Switch

Plug & Play

Niagara 2831 family is a Single segment 40 Gigabit Intelligent Active Bypass Switch family with extensive failover/bypass capabilities and optional 8 Link Aggregation TAP Ports supported for flexible port monitoring. 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 2831 passive bypass feature automatically switches the network traffic upon power failure of an attached in-line device, preserving network connectivity. The Niagara 2831 family is designed to integrate with UTM, Firewall, WAN Acceleration, QoS, IPS, IDS and Enterprise IT security appliances.

When Niagara 2831 detects an appliance malfunction such as a software crash, system failure or loss of power, the network traffic continues to flow through the network link, but is no longer 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 2831 Family provides major features that are essential in today's data centers:

- Active Bypass in case of system failure
- Passive Bypass which is essential during power loss
- Multi Mode fiber and Single Mode fiber support on the Network side
- 40 Gigabit Multi Mode (SR), Single mode (LR) and Direct Attached support on the appliance side
- Optional 8 Link Aggregation TAP Ports
- 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

Highly Reliable

Niagara 2831 Family utilizes two redundant hot swappable power supplies for maximum reliability.

Niagara 2831 Family deploys passive bypass along with active switching for fail safe operation.

Extensive Bypass Configuration

Niagara 2831 Family 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

Management Software

Niagara 2831 Family 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
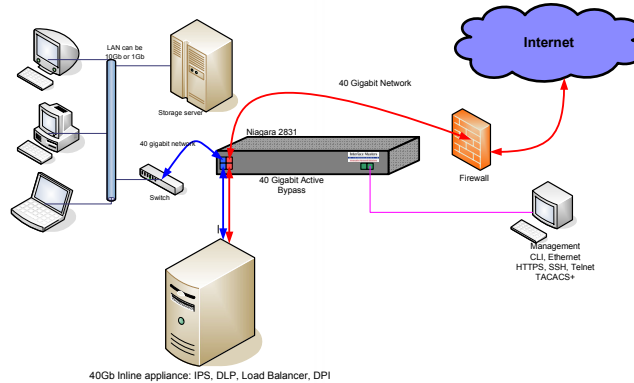
Environmental

Operating Temperature	0 to 55 ºC or 32 to 131 ºF
Operating Humidity	5 to 95%
Maximum Power Consumption	125 Watts
Airflow	100 lf/m

Dimensions

	mm	inches
Length	425.45	16.75
Height	44.45	1.75
Width	527.05	20.75

Ordering Part Numbers

Part Number	Description
Niagara 2831-SR	Single segment 40G Multi Mode active bypass system
Niagara 2831-LR	Single segment 40G Single Mode active bypass system
Niagara 2831T-SR	Single segment 40G Multi Mode active bypass system with 8 additional 10G Link Aggregation TAP ports
Niagara 2831T-LR	Single segment 40G Single Mode active bypass system with 8 additional 10G Link Aggregation TAP ports

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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