

Plug & Play

Niagara 2841 is a single segment of 40 Gigabit Intelligent Active Bypass with support for 10 Gigabit Layer 2 – 4 Hardware Load Balancer/PacketMaster 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 passive bypass feature automatically switches the network traffic upon power failure of an attached in-line device, preserving network connectivity. The loadbalancing/PacketMaster capabilities supports 16 multi-purpose SFP+ Ports for extensive packet filtering and slicing, distribution, aggregation and mirroring functionality. These ports can support 1G SFP or 10G SFP+ media and can be assigned to any of the network segments. The system packet processing includes L2, L3 and L4 packet filtering, IP4 and IPV6 traffic, MPLS tunnel handling and supports the ability to customize filters and per port traffic for distribution. The unit possesses management functionality that can be utilized via an extensive web GUI or CLI which enables flexibility and multiple configurations. The Niagara 2841 is designed to integrate with UTM, Firewall, WAN Acceleration, QoS, IPS, IDS and Enterprise IT security appliances.

When Niagara 2841 bypass functionality 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. 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, the bypass switch will pass all network traffic through the a defined secondary appliance providing redundant fail-over with minimal packetloss until the primary appliance is restored.



Essential Features

Niagara 2841 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
- Packet Filtering and Slicing Capabilities
- 8 additional Loadbalancing/Packet Master ports for advanced traffic management (optional)
- 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 2841 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 2841 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.

Highly Reliable

Niagara 2841 Family utilizes two redundant hot swappable power supplies for maximum reliability.
Niagara 2841 Family deploys passive bypass along with active switching for fail safe operation.

Environmental

Operating Temperature	0 to 55 °C or 32 to 131 °F
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 2841-SR	40 Gigabit Multi-Mode Fiber Intelligent Active Bypass Switch with 8 10Gb Loadbalancing ports
Niagara 2841-LR	40 Gigabit Single-Mode Fiber Intelligent Active Bypass Switch with 8 10Gb Loadbalancing 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.



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

Interface Masters

TECHNOLOGIES

Innovative Network Solutions