

## Overview

The Niagara 2804 family is a 10 Gigabit Layer 2 – 4 PacketMaster/Hardware Load Balancer supporting up to Quad segments of 10 Gigabit Intelligent Active Bypass. The PacketMaster supports 16 multi-purpose SFP+ Ports for extensive packet filtering, 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 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 2804 passive bypass feature automatically switches the network traffic upon power failure of an attached in-line device, preserving network connectivity. The Niagara 2804 family is designed to integrate with UTM, Firewall, WAN Acceleration, QoS, IPS, IDS and Enterprise IT security appliances.

When Niagara 2804 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 packet-loss until the primary appliance is restored.



## Essential Features

Niagara 2804 family provides major features that are essential in today's data centers:

- 4 segments of bypass/failover functionality (also available in 1 and 2 segment options)
- Active switching of traffic in case of system failure
- Passive Bypass which is essential during power loss
- High availability failover capabilities
- 10 Gigabit Multi (SR) and Single (LR) mode support
- 16 SFP+ Ports for extensive packet filtering, distribution, aggregation & mirroring
- Support for SFP (SX, LX and TX) and SFP+ (SR, LR, ER) on inline appliance ports
- Redundant internal power supplies for maximum reliability
- Dedicated Management Port and Console Port
- Extensive CLI and WEB based management (GUI)
- SSH and HTTPS for secure Management
- TACACS+ authentication
- Syslog support
- NTP support
- Low power – 150 Watts
- RoHS Compliant
- EMC, FCC Class A, UL (Safety) Certifications

## Filtering Definitions

- MAC source and destination
- IP source and destination
- Protocol: HTTP, VoIP, FTP, etc.
- VLAN ID
- TCP port source and destination
- UDP port source and destination
- User Defined Byte (UDB)

## Extensive Bypass Configuration

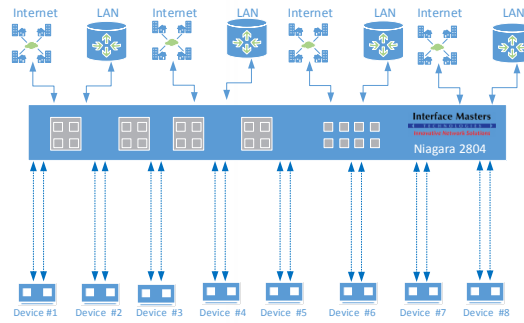
Niagara 2804 family allows for multiple bypass configurations including:

- 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

## Highly Reliable

Niagara 2804 family utilizes two redundant internal power supplies for maximum reliability. Niagara 2804 family deploys passive bypass along with active switching for fail safe operation.

## Niagara 2804 Implementation



### Environmental

<b>Operating Temperature</b>	0 to 55 °C or 32 to 131 °F
<b>Operating Humidity</b>	5 to 95%
<b>Maximum Power Consumption</b>	51 Watts
<b>Airflow</b>	100 lf/m

### Dimensions

	mm	inches
<b>Length</b>	508.00	20.00
<b>Height</b>	44.45	1.75
<b>Width</b>	438.15	17.25

### Ordering Part Numbers

Part Number	Description
Niagara 2804-SR	Quad segment Multi Mode active bypass system with 16 additional PacketMaster ports – NO SFP+ modules included on PacketMaster ports
Niagara 2804-LR	Quad segment Single Mode active bypass system with 16 additional PacketMaster ports – NO SFP+ modules included on PacketMaster ports
Niagara 2802-SR	Dual segment Multi Mode active bypass system with 12 additional PacketMaster ports – NO SFP+ modules included on PacketMaster ports
Niagara 2802-LR	Dual segment Single Mode active bypass system with 12 additional PacketMaster ports – NO SFP+ modules included on PacketMaster ports
Niagara 2801-SR	Single segment Multi Mode active bypass system with 10 additional PacketMaster ports – NO SFP+ modules included on PacketMaster ports
Niagara 2801-LR	Single segment Single Mode active bypass system with 10 additional PacketMaster ports – NO SFP+ modules included on PacketMaster 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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## Interface Masters

TECHNOLOGIES

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