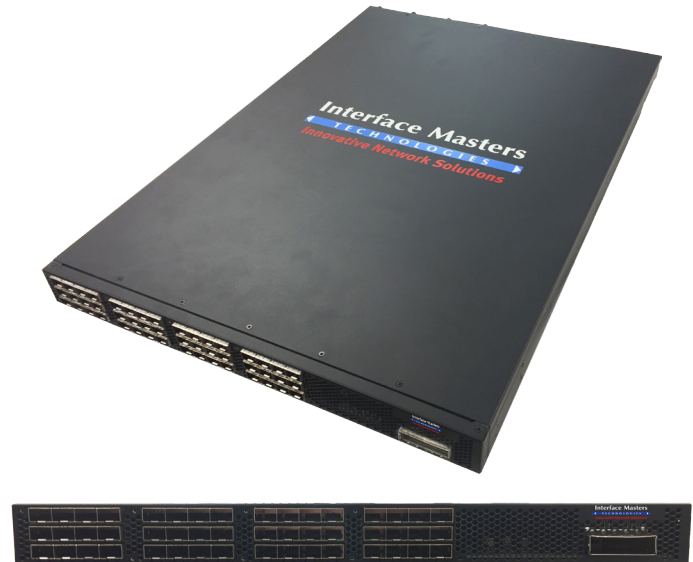


## Overview

The Niagara 4248-1C is a 100G Network Packet Broker. The Traffic Distribution and Load Balancing has flexible and extensive configuration options. The system can support distribution and filtering for L2-L4 IP traffic and it provides the ability to customize key for distribution. The Niagara 4248-1C can be configured with 48 ports of 10G and 1 port of 100G.

Due to its versatility and flexibility the system can support mirroring to multiple ports aggregation of multiple ports to a single port and an extensive filtering engine. There are several load balancing methodologies supported which enable traffic to be distributed according to any configured output of ports and the distributing key can be defined as follow:

- VLAN ID -- packets belonging to the same VLAN will be redirected to the same port.
- IP-Src -- packets belonging to the same IP source will be redirected to the same port.
- IP-Dst -- packets belonging to the same IP destination will be redirected to the same port.
- MAC-Src -- packets belonging to the same MAC source will be redirected to the same port.
- MAC-Dst -- packets belonging to the same MAC destination will be redirected to the same port.
- TCP-Port -- packets with the same TCP port will be redirected to the same port.
- UDP-Port -- packets with the same UDP port will be redirected to the same port.
- User Defined Byte (UDB) - where the key for distribution is configurable and all the packets with the same key will be redirected to the same port. The number of ports is configurable.



## Key Features

- Load balancing according to multiple key definitions
- Session aware load balancing
- User defined bytes for filtering
- Port failover mechanism
- Counters for ingress and egress traffic
- RMON statistics
- TACACS+ for centralized authentication
- Syslog for events logging
- SNMP management and reporting
- CLI and Web-based management and configuration
- Mirroring of one to many and any to any
- Secure logging and secure management
- Support for a total of 2,000 filtering and redirection rules
- Support for GRE and GTP\*
- Support IPv6 filtering

## System Characteristics

- Max system throughput 1.16Tbps
- Support for SFP+SR and LR
- Support for 100G LR4
- Low power – 500 Watts
- 1U chassis
- Serial console and Ethernet management port

## Environmental

Operating Temperature	0 to 45 °C or 32 to 113 °F
Operating Humidity	5 to 95%
Maximum Power Consumption	500 Watts
Airflow	200 lf/m

## Dimensions

	mm	inches
Length		
Height		
Width		

## Ordering Part Numbers

Part Number	Description
Niagara 4248-1C	100G PacketMaster

### 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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TECHNOLOGIES

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