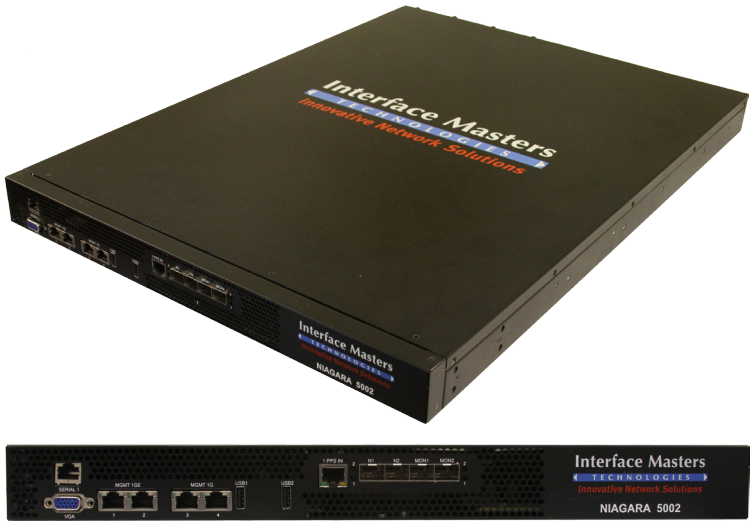
Interface Masters
TECHNOLOGIES
Innovative Network Solutions

Niagara 5002
De-duplication and Timestamping
Network Visibility

Overview



The Niagara 5002 is a network appliance that performs: time stamping, de-duplication and flow based/flow load, load balancing. The load balancing is done with tunnel parsing based on the passenger packet. This appliance which can handle up to 40Gbps of traffic comes equipped with up to eight ports of 10G fiber and two ports for the management and serial console.

De-duplication eliminates duplicate copies of data, to reduce the amount of data that needs to be put into storage or transferred within the network by dropping duplicate packets. For performance monitoring, as more transactions occur on a network, timestamping becomes necessary to be able to pinpoint where communication delays or latency are happening, which allows for tuning the network for performance. The Niagara 5002 is meant to run in conjunction of a broad range of applications, including security, performance monitoring, networking forensics, lawful intercept, storage and data center server appliances.

The Niagara 5002 comes with hot swappable redundant power supplies and fans.

Features

Time Stamping

- Per packet UTC value. 8 byte at the End Of the Packet, before trailer
- 5.7ns granularity
- 1 PPS/ PTP/ NTP synchronization

De-duplication

- 32 packet window for identifying duplicate frames

Load Balancing

- Flow Based Round Robin
- 2 Million Concurrent flows

Tunnel handling

- Tunnels supported during Load-balancing
  - » VLAN
  - » Q-Q
  - » MPLS, Multi MPLS
  - » IP-in-IP
  - » GTP-U
  - » GRE-1/2

Fabric Path and Overlay Tunnel stripping

- Cisco VnTAG
- Cisco Fabric Path
- VmWare VxLAN

System Key Components

- Eight dual speed SFP+ Ports (SR or LR)
- Two Redundant hot pluggable power supplies
- One console port and One Management with IPMI port
- 1U chassis
- Full RoHS compliance
- EMC, FCC Class A, UL (Safety) Certifications

Environmental

Operating Temperature	0 to 45 ºC or 32 to 113 ºF
Operating Humidity	5 to 95%
Maximum Power Consumption	TBD
Airflow	200 lf/m

Dimensions

	mm	inches
Length	482.60	19.00
Depth	546.10	21.50
Height	43.68	1.72

Ordering Part Numbers

Part Number	Description
Niagara 5002-2	DPI system - 4 ports of 10G, supporting up to 40Gbps DPI - Load balancing, De-duplication, Time stamping (CPU + 4GB of memory)
Niagara 5002-4	DPI system - 8 ports of 10G, supporting up to 40Gbps DPI - Load balancing, De-duplication, Time stamping (CPU + 4GB of memory)

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 visibility market including Bypass, TAP, switches and smart NICs products, based in the heart of the Silicon Valley.

Interface Masters' expertise lies in Gigabit, 10GbE and 40GbE networking solutions that integrate with monitoring, inline networking, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances. Flagship product lines include PacketMaster® Network Packet Broker, specialized 10GE internal server adapter cards, switches, 10Gb and 40Gb external intelligent Network TAP and Bypass and failover systems.

Company Headquarters are located in San Jose, CA with satellite offices in Hong Kong and Europe.

Made in the USA

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