

Overview

The Niagara 3216PT is a 16 Port 10 Gigabit Hardware Packet Master with 4 segments of integrated 10G Passive TAP for network analysis and monitoring applications. The Packet Master has flexible and extensive configuration options which enable it to be tailored to customize the way traffic is managed. The system can support L2-L4 packets, IPv6 and IPv4 traffic, MPLS packets and provides the ability to customize keys for distribution. The 16 ports support 1 gigabit or 10 Gigabit Ethernet with SFP and SFP+ support including 1G copper SFP, multi mode, single mode and extended mode fiber. The Packet Master provides sophisticated features for flexible traffic management including mirroring to multiple ports, aggregation of multiple ports to a single port, and an extensive filtering engine. There are several session based load balancing methodologies supported which enable traffic to be distributed according to any configured output of ports and the distributing keys can be defined as follows:

- 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 belonging to the same TCP destination will be redirected to the same port.
- UDP-Port -- packets belonging to the same UDP destination will be redirected to the same port.
- User Defined Byte (UDB) - 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 that the system supports

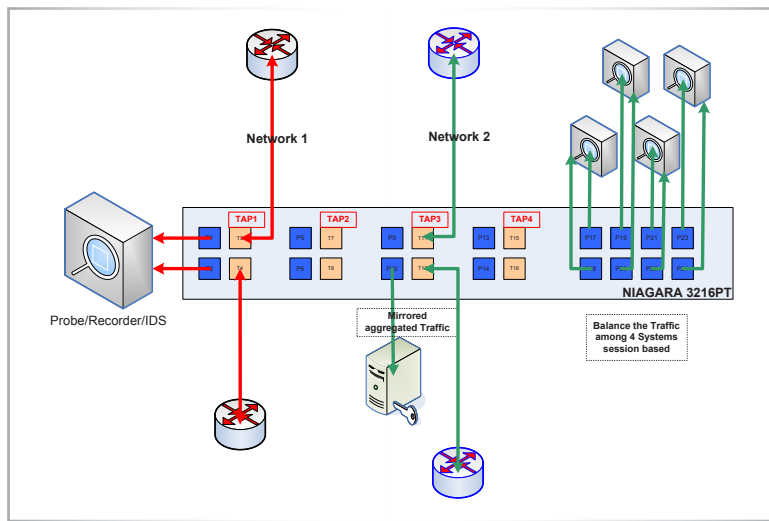
- 16 Ports of 10G SFP+ Packet Master Ports for flexible 10G or 1G configuration
- 4 segments of 10G Fiber Passive TAP:
 - » Full duplex, zero packet loss, passive monitoring
 - » Supports LC connectors
 - » Support for SR, LR
 - » The Optical split ratio can be factory configured as follows:
 - ⇒ 90% Network ports – 10% TAP port
 - ⇒ 80% Network ports – 20% TAP port
 - ⇒ 70% Network ports – 30% TAP port
 - ⇒ 60% Network ports – 40% TAP port
 - ⇒ 50% Network ports – 50% TAP port
- Load balancing according to multiple key definitions
- MPLS, Q in Q support
- Session aware load balancing
- Aggregation support
- Packet Slicing
- 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 2000 filtering and redirection rules

System Characteristics

- Max system throughput 960 Gbps
- Support for SFP and SFP+: SR, LR, ER, SX, LX, TX
- LC connectors
- Low power – 150 Watts
- 1U chassis
- Serial console and Ethernet management port

Applications



Ordering Part Numbers

Part Number	Description
Niagara 3216PT-SR	4 SR segments TAP + 16 10GE port Network Packet Broker/PacketMaster - No SFP+
Niagara 3216PT-LR	4 LR segments TAP + 16 10GE port Network Packet Broker/PacketMaster - No SFP+

Environmental

Operating Temperature	0 to 55 °C or 32 to 131 °F
Operating Humidity	5 to 95%
Maximum Power Consumption	150 Watts
Airflow	100 lf/m

Dimensions

	mm	inches
Length	425.45	16.75
Height	44.45	1.75
Width	425.45	16.75

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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