Interface Masters
T E C H N O L O G I E S
◄ ►
Innovative Network Solutions

Niagara 2924-24TX
48 Port Hybrid Managed Switch
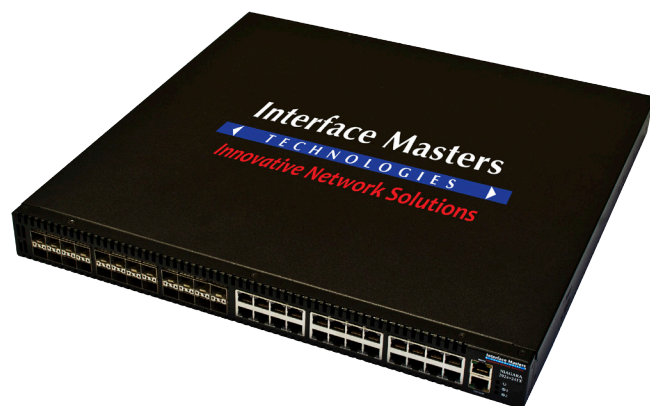*24 ports 10 Gigabit SFP+ and 24 Ports 10GBASE-T Copper*

Plug and Play

Niagara 2924-24TX is a 48 port hybrid managed switch consisting of 24 ports of 10GBASE-T Copper and 24 ports of SFP+ Fiber. The Niagara 2924-24TX is an advanced switching and routing system providing Layer 2 switching, IP v4/v6 routing, QoS support and management capabilities. The system is built for optimal flexibility enabling high port 10BASE-T copper media configuration which can support 1G RJ45 as well and connectivity to 10GE or 1GE networks via SFP+ or SFP connectors. The unit's management functionality can be utilized via an extensive web GUI or CLI which enables flexibility and multiple configurations. The Niagara 2924-24TX is designed to integrate with UTM, Firewall, WAN Acceleration, QoS, IPS, IDS and Enterprise and Datacenter IT security appliances.

The system is based on Marvell Prestera switch family supporting 1GE and 10GE technology with multiple ports.

Key Features

- 24 Ports with support for 10GBASE-T Copper (which can support 1G RJ45 Copper)
- Up to 24 ports with 10 Gigabit SFP+ support for flexible configuration (can support 1G SFP)
- Dual Redundant Internal power supplies for maximum reliability
- The system supports front to back and back to front airflow which is factory configurable
- Dedicated Management Port (10/100/1000 support)
- Dedicated Console Port (Serial support)

Advanced Management Features

- Extensive CLI and WEB based management
- SSH and HTTPS for secure Management
- TACACS+ authentication client
- Syslog client
- SNMP traps on defined events
- E-mail notification on defined events
- SNTP Client
- NTP support
- RMON Support
- Chassis Management
- Traffic Mirroring Capabilities
- TCP/IP stack and DHCP for IPv4 and IPv6
- Switch Stacking
- RoHS Compliant
- EMC, FCC Class A, UL (Safety) Certifications

Basic Layer 2 Switching

- Transparent bridging
- VLAN aware bridging with GARP, GVRP, GMRP
- Rapid Spanning Tree Protocol
- Multiple Spanning Tree Protocol
- Per VLAN Rapid Spanning Tree Protocol
- IGMP snooping, IGMP filtering and IGMP Proxy
- MLD snooping
- Link Aggregation with LACP
- 802.1x authentication
- Link Layer Discovery Protocol (LLDP)
- Ethernet OAM – 802.3ah
- Multiple Registration Protocol

QoS (Note: dependent on silicon support)

- ACLs (Access Control Lists) for traffic filtering
- 802.1p, DiffServ, traffic prioritization queuing, policing, shaping
- Rate limiting and storm control
- Flow control and priority flow control
- Enhanced transmission selection

Routing

- IPv4 unicast and multicast
- IPv4 NAT (Network Address Translation)
- IPv6 unicast and multicast
- Route redistribution between IPv4 routing protocols and static routes
- Route maps for filtering route advertisements and route redistribution – IPv4 and IPv6
- IPv6 tunneling over IPv4
- Graceful restart for BGP, BGP4+, IS-IS, OSPFv2, OSPFv3
- Hot standby redundancy for OSPFv2, OSPFv3, PIM for IPv4/v6
- Virtual routing with IPv4/v6 static routing, OSPFv2/v3, IS-IS for IPv4, RIPv2
- VRRP for router redundancy

Target Applications

The comprehensive feature set is well suited for a range of applications including:

- Carrier Ethernet and Metro Ethernet devices
- Datacenter switching applications
- IP-DSLAMs, blade servers
- Managed Ethernet switches
- MTU or MDU premises switches
- WLAN Switches, optical switches

Advanced Layer 2 Switching, MPLS / VPLS

- Q-in-Q VLAN tunneling and Provider bridging
- MPLS – static LSPs, LDP, RSVP-TE, PWE3 VCs for L2 VPNs

Highly Reliable

Niagara 2924-24TX utilizes two redundant internal power supplies for maximum reliability.

Niagara 2924-24TX utilizes advanced design and power efficiency techniques for optimal operation.

Environmental

Operating Temperature	0 to 55 ºC or 32 to 131 ºF
Operating Humidity	5 to 95%
Maximum power consumption	51 Watts
Airflow	100 lf/m

Dimensions

	mm	inches
Length	425.45	16.75
Height	44.45	1.75
Width	425.45	16.75

Ordering Part Numbers

Part Number	Description
Niagara 2924-24TX	24 port 10GBASE-T Copper & 24 ports 10 Gigabit SFP+ Managed Switch
Niagara 2916-24TX *	24 port 10GBASE-T Copper & 16 ports 10 Gigabit SFP+ Managed Switch
Niagara 2908-24TX *	24 port 10GBASE-T Copper & 8 ports 10 Gigabit SFP+ Managed Switch
Niagara 2904-24TX *	24 port 10GBASE-T Copper & 4 ports 10 Gigabit SFP+ Managed Switch

* Please contact factory for more information.

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 high speed networking market including Bypass, TAP, switches and smart NICs products, based in the heart of the Silicon Valley. Interface Masters' expertise lies in Gigabit, 10 Gigabit and 40 Gigabit Ethernet 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 hardware load-balancers, specialized 10GE internal server adapter cards, switches, 10 Gigabit external intelligent Network TAP and Bypass and failover systems that increase network monitoring capabilities, network reliability and inline appliance availability.

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

Contact Interface Masters

227 Devcon Dr., San Jose, CA 95112
Phone: 408-441-9341 x122
Fax: 815-364-0888
Email: sales@interfacemasters.com
Web: www.interfacemasters.com

Interface Masters
T E C H N O L O G I E S
Innovative Network Solutions