

Interface Masters

TECHNOLOGIES

Innovative Network Solutions

OVERVIEW

TAHOE 2948 family is a high port density 10 Gigabit SFP+ specialized switch family. The TAHOE 2948 family supports layer 2/3/4 10 Gigabit Ethernet enterprise and datacenter capabilities including advanced switching and routing, Layer 2 switching, IP v4/v6 routing, QoS support and management capabilities. The family is built for optimal flexibility enabling multi-mode or single mode fiber media configuration and connectivity to 10GE or 1GE networks via SFP+ or SFP connectors. The family possesses management functionality that can be utilized via an extensive web GUI or CLI which enables flexibility and multiple configurations.

The family supports 4 configurations including, TAHOE 2948, a 48 SFP+ port version, TAHOE 2924, a 24 SFP+ port version, TAHOE 2916, a 16 SFP+ port version and TAHOE 2908, an 8 port SFP+ port version. Each port has support for a variety of SFP modules and cables including SFP+ SR, SFP+ LR, SFP+ER, SFP-SX, SFP-LX, SFP-TX and direct attached cabling.



Tahoe 2948 Family (ISO View)

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

Management

- SNMP (v1, v2c, v3) agent and MIB support; configuration save / restore
- CLI (Console, Telnet, SSH), pre-defined CLI commands
- Web UI (HTTP and HTTPS / SSL), pre-defined web pages
- Software and configuration upgrade through TFTP or SFTP
- Syslog – client (with reliable syslog delivery) and relay
- TCP/IP stack for IPv4 and IPv6 (including ARP, ICMP, ND, UDP)
- DHCP (client, server, relay) for IPv4
- Stateless DHCP service for IPv6 for specific options assignment
- RADIUS client
- TACACS+ client
- RMONv1, RMONv2, DSMON
- IP authorized managers
- Ethernet port control and management
- Traffic mirroring
- SNTP (Simple Network Time Protocol) client
- Chassis management
- Switch stacking

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 (enhanced)-PVRST+
- 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

Routing

- IPv4 unicast - static routing, RIP v1/v2, OSPFv2, IS-IS, BGP4
- IPv4 multicast – IGMP router, PIM-SM/DM, DVMRP
- IPv4 – NAT (Network Address Translation) unicast and multicast
- IPv6 unicast - static routing, RIP v6, OSPFv3, IS-IS, BGP4+
- IPv6 multicast – MLD, PIMv6
- 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 – IPv4 and IPv6
- 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, ISIS for IPv4, RIPv2
- VRRP for router redundancy

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 QoS (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

Highly Reliable

TAHOE 2948 family utilizes two redundant hot swappable power supplies for maximum reliability. TAHOE 2948 utilizes advanced design and power efficiency techniques for optimal operation.

ENVIRONMENTAL	
Operating Temperature	0° to 40 °C (32° to 104°F)
Operating Humidity	5 to 95%, non-condensing
Airflow	100 LFM

Ordering Information	
Part Number	Description
Tahoe 2948	48 port 10G SFP+ managed switch

DIMENSIONS		
	Inches	Millimeter
Length	17.33	440
Height	1.75	44.45
Width	17.33	440

CUSTOMIZATION SERVICES

Hardware, Firmware, Linux O/S and application code development services are available.



ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a leading provider of high-speed networking solutions focused on 1/10 /25/40/100/200 Gigabit Ethernet networking solutions. For over 25 years, Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality. Company headquarters are located in San Jose, CA with satellite offices in Hong Kong and Europe.

ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a leading provider of high-speed networking solutions focused on 1/10 /25/40/100/200 Gigabit Ethernet networking solutions. For over 25 years, Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality. Company headquarters are located in San Jose, CA with satellite offices in Hong Kong and Europe.

Address: 150 East Brokaw Rd., San Jose, CA 95112
Phone: 408-441-9341
Fax: 815-364-0888
Email: sales@interfacemasters.com
Web: www.interfacemasters.com

Copyright © 2019 Interface Masters Technologies, Inc.
Product specifications subject to change without notice
Rev C

Interface Masters
TECHNOLOGIES
Innovative Network Solutions