

Todaair

Product Specification

TD-SW38G24F4-10GF



Product Overview

TD-SW38G24F-410GF is a Fiber Managed Switch developed by Todaair, with 16*1000Mbps SFP slots, 8*1000Mbps Combo ports and 4*10Gbps SFP+ fiber modules and a Console port, providing complete security policies, perfect QoS policies and rich VLAN functions, easy to manage and maintain, meeting the networking and access requirements of enterprises, communities, hotels, office networks and campus networks..

Features

- RJ45 supports automatic port flip (Auto MDI/MDIX)
- IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control
- Panel indicators monitor working status and assist in fault analysis
- Dual power supply design, supporting AC or DC 1+1 backup, reducing the risk of device power failure and business interruption
- Support for dynamic routing protocols
- Highly reliable design, supporting traditional STP/MSTP/RSTP 3-layer link protection technology
- Support static convergence and dynamic convergence (LACP) 2 convergence modes, effectively increase the link bandwidth, improve the reliability of the link, and at the same time can achieve load balancing, link backup

- Flexible and convenient management and maintenance Supports various management modes, such as Console, Telnet, and SSH
- Support WEB management, simple and efficient, convenient for installation and debugging of engineering and maintenance personnel
- Supports file upload and download management through TFTP

Hardware Specification

Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1X, IEEE802.1q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.3ad
Interface	16*1000Mbps SFP Slots 8*1000Mbps Combo Ports 4* 10Gbps SFP+ Slots 1*Console Port
Indicator	PWR(Green), LNK/ACT(Green), SYS(Green)
Network Media	100BASE-TX: UTP category 5, 5e cable (≤100m) 100BASE-TX UTP category 5e, 5 cable (≤100m) 1000BASE-FX: MMF, SMF 10GBASE-X: MMF, SMF 10GBASE-SR: OM1/OM2/OM3 or above MMF (2m ~ 300m) 10GBASE-LR: IEC's B1.1 and B1.3 SMF (2m ~ 10000m)
Optical Module Rate	0~2M, 2~10M, 2~84M, 155M, 622M, 1.25G, 2.5G, 3.125G, 4.25G, 5G, 6G, 8G, 10G
MAC Address Table	16K, Auto-learning, Auto-update
Jumbo Frame	12KBytes
Packet Buffer	12Mbit
Transfer Mode	Store-and-forward
Packet Forward Speed	95.23Mpps

Switching Capacity	128Gbps		
Dimensions(L*W*H)	440*260*44mm		
Fan	2pcs		
Power Supply	AC+AC 100-240V~	DC+DC 36-72V(Optional)	AC+DC 100-240V~/36-72V (Optional)
Operating Temperature	0°C ~ 40 °C		
Storage Temperature	-40 °C ~ 70 °C		
Operating Humidity	10% ~ 90% (non-condensing)		
Storage Humidity	5% ~ 90% (non-condensing)		
Surge Protection	Common mode ±4KV, Differential mode ±2KV		
MTBF	>100000 hour		
Electrostatic Standard	Contact ±6KV , Air ±8KV		

Product Image



Software Function

L2 Features	MAC Address Table	MAC Address Size
		MAC Aging Time
		MAC Filter
		MAC Notification
	Basic Management	Console/Telnet/SSH
		Http/Https, SSL/TLS
		FTP/TFTP
		Syslog
		SNMP(v1/v2c/v3), SNMP Trap
		SNTP/NTP
		CPU protect
		Software/Hardware watchdog
		Firmware Upgrade/Backup
		Ping/Traceroute
	Port Config	Bandwidth Control
		Flow Control
		EEE
		MTU
		CFM(802.1ag)
		EFM OAM(802.3ah)
		DDM
		Storm Control
		Port Isolation
Port Security		
Virtual Cable Test		
ULDP/Cisco UDLD		
Discovery	LLDP(802.1ab)	

	LLDP-MED
Link Aggregation	Static
	LACP(802.3ad)
	Load Balance(src-mac/dst-mac/src-ip/dst-ip)
	Max groups and ports per group
VLAN	VLAN(802.1Q 4K)
	Access/Trunk/Hybrid
	Private VLAN
	VLAN Filter
	MAC-based VLAN
	Protocol-based VLAN
	IP Subnet-based VLAN
	Voice VLAN
	GVRP/GMRP
	QinQ/Selective-QinQ/Flexible QinQ
	VLAN Translation/N:1 VLAN Translation
	Guest VLAN
Network Loop Detection	Loopback Detection
	ERPS
Spanning Tree	STP/RSTP/MSTP
	MSTP Support 64 instance
	BPDU Guard/Root Guard/BPDU Tunnel
ARP	Static ARP
	ARP Scanning Prevention
	ARP Spoofing Prevention
	ARP Guard
	Gratuitous ARP
	Dynamic ARP Inspection
	ARP Quantity Control

IPv4 Related Function	ICMP	Anti ICMP Attack
		ICMP Rate Limit
		ICMP Unreachable Drop
	IP Forward	Static Route
		Route Aggregation
	Control Multicast	DCSCM
	Multicast VALN	Multicast VALN
	IGMP	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
	DHCP	DHCP Server
		DHCP Client/BOOTP
		DHCP Relay
		DHCP Snooping
		DHCP Option 82/43/60/61/67
IPv6 Related Function	IPv6 Basic	IPv6 ND Snooping
	DHCPv6	DHCPv6 Server
		DHCPv6 Relay
		DHCPv6 Snooping
		IPv6 SAVI
		Security RA
	IPv6 Unicast Routing	Static Route
	IPv6 Multicast Routing	MLD v1/V2 Snooping
	IPv6 Features	SNMP over IPv6 Support
		HTTP over IPv6 Support
		SSH over IPv6 Support
		DNS over IPv6 Support

QoS (Quality Of Service)		IPv6 ping/traceroute Support
		IPv6 Telnet Support
		IPv6 Radius+ Support
		IPv6 Tacacs+ Support
		IPv6 SNTP/NTP Support
		IPv6 FTP/TFTP Support
		IPv6 IPsec Support
		IPv6 ACL
	Basic	Trust COS/DSCP
		Trust Port
	Scheduling	SP
		WRR
		WDRR
	PolicyMap Stream	Based on VLAN
		Based on COS/DSCP
		Aggregate PolicyMap
		Ingress PolicyMap
	Policing	CAR Stream Shaping(leak algorithm)
		Ingress Policing
	Rewrite	COS/802.1p Priority
IP Precedence		
IPv4 DSCP/IPv6 DSCP		
drop-precedence		
internal-priority		
Ingress/Egress Rewrite		
Queuing	DSCP to DSCP mapping	
	DSCP to DP mapping	
	DSCP to Queue mapping	
	COS to DP mapping	

		COS to Queue mapping
ACL	IP-ACL	SIP/DIP
		IP Protocol
		IP Priority(DSCP,TOS, Precedence)
		TCP,UDP src,dst Port
	MAC-ACL	SRC/DST MAC
		VLAN
		COS
		Tag/Untag
	IP-MAC ACL	MAC-ACL and IP-ACL
	User-defined ACL	Base on user defined profile
	ACL Features	Based on time period ACL
		ACL on VLAN
		Based on ACL Stream
Security	802.1x	Port Based Authentication
		Support EAPoR
		MAC based Authentication
		Guest VLAN
	MAB	Based on Port Authentication
		Based on MAC Authentication
	MAC Address Count Limit	Based on Port
		Based on VLAN
	IP Address Count Limit	Based on Port
		Based on VLAN
	Access Management	Based on source mac and IP address
	Deny DoS Attack	TCP Flag
		TCP Flagment
IP Segment		

		ICMP
	TACACS+	Standard Support
	Radius	Standard Support
		Client, Support MD5
	SSL	Openssl 1.1.0
Redundancy Related Function	MRPP	Compatiable ERRP
	ULPP	Uplink Protection Protocol
		Smart Link/Monitor Link
ULSM	Uplink State Monitor	
Flow Monitor Function	Mirror	Support one to one, multi to one
		Port based mirror, support ingress, egress, and both
		CPU based mirror
		Flow based mirror
		RSPAN

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