

X1580-24T4X



OVERVIEW

X1580-24T4X has full L3 network management function, support IPV4/IPV6 management, dynamic routing full line-speed forwarding, complete security protection mechanism, perfect ACL/QoS policy, and rich VLAN functions, easy to manage and maintain. It supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms), It supports ERPS ring network function (convergence time<20ms) to improve link backup and network reliability to ensure uninterrupted communication of important applications.

With industry-leading ring network technology. It supports a variety of industrial-grade redundant ring network protocols, and each port can form a ring network, supporting chain ring network, star ring network, double star ring network, ring network, tangent network ring network, intersecting ring network, coupled ring network, self-healing within ERPS <20ms of the ring network.

The switches series has high reliability, high security, and high manageability, ensures reliable transmission of key data, supports remote management. It is suitable for scenarios such as intelligent transportation, rail transit, electric power industry, mining, petroleum, shipping, metallurgy and green energy construction to establish a cost-effective, stable and reliable communication network.

FEATURE

High-Speed Connectivity

24x10/100/1000M RJ45, 4x10G SFP+.

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Standards Compliance

Adheres to a comprehensive array of networking standards, including IEEE 802.1d, 802.1w, 802.1s, 802.1p, 802.3, 802.3u, 802.3x, 802.3z, 802.3ab, and 802.3ae

Enhanced Network Stability

Features Spanning Tree Protocol (STP/RSTP/MSTP with ERPS) for loop detection and self-healing, along with remote loop monitoring and control to maintain optimal network performance.

Flexible VLAN Partitioning

Offers versatile VLAN partitioning, allowing for both MAC VLAN and protocol VLAN configurations to segment network traffic securely

Robust Security Features

Offers features like IP address + MAC address + VLAN + port binding, DHCP Snooping, and IP Source Guard (DAI) protection to optimize security.

Comprehensive Management

Manage and configure the switch through various interfaces such as WEB, TELNET, CLI, SSH, SNMP, and RMON, providing flexibility to suit your administration preferences.

SPECIFICATION

X1580-24T4X	
Fixed Port	24x10/100/1000M RJ45 4x10G SFP+
Management Port	1xconsole port
Reset Key	1
CPU	400MHz ARM® Cortex™-A9
DDR	2G DDR3 1333MHz
Buffer	Integrated 1.5MB packet buffer
FLASH	64M
RAM	256M
Backplane Bandwidth	256Gbps
Packet Forwarding Rate	92.32Mpps
MAC Address Table	16K
Network Protocols	IEEE 802.3 IEEE 802.3u 100BASE-TX IEEE 802.3ab1000BASE-T IEEE 802.3x IEEE 802.3z 1000BASE-X IEEE 802.3ad

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	IEEE 802.3q, IEEE 802.3q/p IEEE 802.1w, IEEE 802.1d 、 IEEE 802.1S STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) EPPS ring network protocol EAPS ring network protocol
Port Characteristics	10/100/1000BaseT(X) auto-detection, full/half-duplex MDI/MDI-X adaptive
Forwarding Mode	Store-and-forward (full wire speed)
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤ 250 m) 100BASE-TX: Cat5 or later UTP (≤ 150 m) 1000BASE-TX: Cat6 or later UTP (≤ 150 m) SFP+: Support 10G single-mode and multi-mode optical modules, maximum distance ≤ 120 km (depending on the optical module).
LED Indicators	PWR:Power LED SYS:System LED 1-24:(10/100M link LED, 1000M link LED) 25-28:(Optical port LED)
Power supply	Built-in switching power supply AC 100-240V 50/60HZ MAX 48W
Environment	Operating temperature: $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$; Storage temperature: $-40^{\circ}\text{C} \sim 75^{\circ}\text{C}$; Operating humidity: 5% ~ 90% RH non-condensing Storage humidity: 5% ~ 95% RH non-condensing
Size (LxWxH)	Product size: 440x290x45mm Package size: 515x375x95mm
N.W./G.W (kg)	2.5kg/2.8kg
Installation	Rack-mounted (with accessories)
Lightning Protection Level	Port lightning protection: 3KV 8/20us; Protection grade: IP30
Certificate	CE-EMC EN55032; CE-LVD EN62368; FCC Part 15 Class B; RoHS;
Warranty	Whole device for 1 year(Accessories not included)
Software	
Port Management	Enable/Disable Port Speed, Duplex, MTU Setting Flow-control Port Information Check
Port Mirroring	Supports both side-way port mirroring
Port Speed Limit	Supports port-based input / output bandwidth management
Port Isolation	Support the downlink port isolation, and can communicate with the uplink port
Storm Suppression	Supports unknown unicast, multicast, unknown multicast, broadcast type storm suppression

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	Storm suppression based on bandwidth regulation and storm filtering
Link Aggregation	Support static manual aggregation Support LACP dynamic aggregation
VLAN	Access Trunk Hybrid Support port, protocol, MAC-based VLAN partitioning Support GVRP dynamic VLAN registration Voice VLAN
MAC	Support static addition, deletion MAC address learning limit Support dynamic aging time setting
Spanning tree	Support STP spanning tree protocol Supports RSTP Rapid Spanning Tree Protocol Supports MSTP Rapid Spanning Tree Protocol
Multicast	Support static addition, deletion IGMP-snooping Support MLD-Snooping Support v1/2/3 dynamic multicast monitor
DDM	Support SFP/SFP+DDM
ACL	Based on source MAC, destination MAC, protocol type, source IP, destination IP, L4 port
QoS	Based on 802.1p (COS) classification Based on DSCP classification Classification based on source IP, destination IP, and port number Support SP, WRR scheduling strategy Support flow rate limit CAR
LLDP	Support LLDP link discovery protocol
User settings	Add/delete users
Log	User login, operation, status, events
Anti-attack	DOS defense Support CPU protection and limits the rate of sending CPU packets ARP binding (IP, MAC, PORT binding)
Certification	Support 802.1x port authentication Support AAA certification
Network diagnosis	Support ping, telnet, trace
System Management	Device reset, configuration save/restore, upgrade management, time setting, etc.
CLI	Support serial port command line management
SSH	Support SSHv1/2 remote management
TELNET	Support telnet remote management

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WEB	Support Layer 2 settings, Layer 2 and Layer 3 monitor
SNMP	SNMP V1/V2/V3 Support trap: ColdStart, WarmStart, LinkDown, LinkUp
RMON	Support RMON v1
Other functions	Support DHCP Snooping, Option82, DHCP Server Support dynamic ARP detection Support TACACS+ certification Support DNS certification Support port security settings Support MVR protocol Support cable detection VCT function Support UDLD protocol
ARP	Support static and dynamic ARP
Static Route	Support
VLAN Interface	Support VLAN interfaces
RIP	Support RIP v1/v2
OSPF	Support OSPFv2
Policy Route	Support
VRRP	Support