



OVERVIEW

The **S2404TGL3** is a 10G uplink L3 managed Ethernet fiber switch independently developed by **Xentino**. It has 24*10/100/1000Base-T RJ45 ports and 4*1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding. The **S2404TGL3** has L2+ full network management function, supports IPV4/IPV6 management, static route full line rate forwarding, complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotel, campus, park, shopping mall, scenic spot, hospital, bank to form an economical, efficient and reliable communication network.

FEATURES

Full Gigabit access, 10G SFP+ fiber port uplink

- ◇ Support "Gigabit Ethernet port and 10G Gigabit SFP+ port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

Security

- ◇ 802.1X authentication.
- ◇ Port isolation, Storm control.
- ◇ IP-MAC-VLAN-Port binding.

Strong business processing capability

- ◇ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN and QinQ configuration.
- ◇ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
- ◇ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- ◇ IGMP V1/V2 and IGMP Snooping.
- ◇ ERPS/STP/RSTP/MSTP.
- ◇ Static and dynamic aggregation.

Stable and reliable

- ◇ CCC,CE, FCC, RoHS.
- ◇ Low power consumption, galvanized steel casing. The fan active cooling.
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable power output.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link, L/A .

Easy operation and maintenance management

- ◇ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- ◇ HTTPS, SSLV3, and SSHV1/V2.
- ◇ RMON, system log, LLDP, and port traffic statistics.
- ◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

XENTINO S2404TGL3		
Interface Characteristics		
Fixed Port	24*10/100/1000Base-T RJ45 ports (Data) 4*1/10G SFP+ ports (Data) 1*RS232 console port(115200,N,8,1)	
Ethernet Port	Port 1-24 support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
SFP Slot Port	1/10Gigabit SFP+ optical fiber port, default NO INCLUDE optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Cable/Distance	Multi-mode: 850nm 0 ~ 550M, 0~300M(10G) single-mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.	
Optical Fiber Port Expansion	Support Turbo overclocking 2.5G optical module expansion and ring network	
Chip Parameter		
Network	L2+	L3
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x , IEEE802.3ae 10GBase-SR/LR	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	598Gbps (Non-blocking)	
Forwarding Rate	95,23Mpps (@64byte)	
MAC	32K	
Buffer Memory	32M	
Jumbo Frame	9,6K	
LED Indicator	Power: PWR(yellow), System: SYS(yellow), Network: Link/Act(yellow), Fiber port: L/A(green)	
DRAM	2G	
FLASH	128M	

CPU	500MHz	
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings	
PoE & Power Supply		
Total PWR / Input Voltage	60W /(AC100-240V)	
Power Consumption	Standby<25W, Full Load<35W	
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1.0A	
Physical Parameter		
Operation TEMP / Humidity	-20~+55℃, 5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+75℃, 5%~95% RH Non condensing	
Dimension	440*290*44.5mm (L*W*H)	
Net /Gross Weight	<3.5kg / <4kg	
Form Factor	Desktop, 19 inch 1U cabinet , wall-mounted	
Certification & Warranty		
Lightning Protection / Protection Level	Lightning protection: 4KV 8/20us, Protection level: IP30	
Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS	
Warranty	2 years, lifelong maintenance.	
Network Management Features		
Interface	IEEE802.3X (Full-duplex) Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps. Port temperature protection setting Port green Ethernet Energy-saving setting No connection port automatic sleep SFP+ optical port DDMI real-time digital diagnosis	
Layer 3 Features	L2+ network management ARP protocol, maximum 1024 entries IPV4/IPV6 static route/default route supports up to 128 entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs	IPV4 Equal Cost Routing NG protocol, maximum 1000 entries ARP protocol, maximum 1000 entries Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6 IPV4/IPV6 VRRP, the maximum group is 255 IPV4/IPV6 VLANIF interface supports up to 128 IPV4/IPV6 static route/default route supports up to 128 entries L3 network management function, IPV4/IPV6 dual-stack management IPV4 dynamic routing, RIPv1/v2, OSPFv2, BGP4+, 4000 routing entries IPV6 dynamic routing OSPFv3, BGP+, RIPvng, IPV6 management, 1000 routing entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs

VLAN	Voice VLAN, QinQ configuration 4K VLAN based on port, IEEE802.1q VLAN based on the protocol VLAN based on MAC QinQ configuration
Port Aggregation	LACP, Static aggregation Max 14 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
Industrial Ring Network Protocol	G.8032 (ERPS), Recovery time less than 20ms 250 Ring at most, Max 250 devices per ring.
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out MLD Snooping v1/v2,Multicast VLAN
Port Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS,Priority Mark/Remark 8*Output queues of each port 802.1p/DSCP priority mapping Queue Scheduling Algorithm (SP, WRR, SP+WRR) Flow-based Packet Filtering Flow-based Rate Limiting

Network Management Features	
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc. Port-based Issuing ACL. ACL based on port and VLAN
Security	User hierarchical management and password protection SSH 2.0,SSL,Port isolation,ARP message speed limit Broadcast storm control,Backup for host datum IEEE802.1X & MAC address authentication Mac black holes,IP source protection AAA & RADIUS,MAC learning limit ARP inspection,Anti-DoS attack IP-MAC-VLAN-Port binding
DHCP	DHCP Client,DHCP Snooping,DHCP Server,DHCP Relay
Management	Console/AUX Modem/Telnet/SSH2.0 CLI Web Management (HTTPS) Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP V1/V2C/V3 One-key recovery NTP,System work log,Ping Test Cable Diagnose,LLDP, CPU instant utilization status view Xentino NMS - Smart Network Management System Platform (LLDP+SNMP)
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; Category 5 Ethernet network cable TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

ORDERING INFORMATION

Model	Description
S2404TGL3 (60W)	L3 managed Ethernet aggregation /core fiber switch with 24* 10/100/1000M RJ45 ports and 4*1/10G SFP+ fiber slot ports. Support 1U/19 inch rack installation

Note: The SFP optical module is not included by default and needs to be purchased separately.

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	28-port 10G uplink L3 managed Ethernet Fiber Switch
1	PC	AC Power Cable
1	SET	Mounting Kits(Hanging Ear)
1	PC	User Guide
1	PC	Warranty Card
1	PC	RJ45-DB9 Line