



OVERVIEW

The **S8244TGL3** is a 10G uplink L3 managed Ethernet fiber switch independently developed by XENTINO. It has **8*10/100/1000Base-T RJ45** ports and **24*100/1000Base-X SFP** ports and **4*1/10G SFP+** fiber slot ports. Each port can support wire-speed forwarding.

The **S8244TGL3** has L3 network management function, support IPV4/IPV6 management, dynamic routing and 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

❖ Gigabit access, Gigabit SFP fiber port uplink

- Supports Gigabit Ethernet port and gigabit SFP fiber slot port and 1/10G SFP+ fiber slot 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.

❖ 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.

❖ Security

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

❖ **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 can show the device status through the LED indicator of PWR, SYS, Link, L/A.

❖ **Easy operation and maintenance management**

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

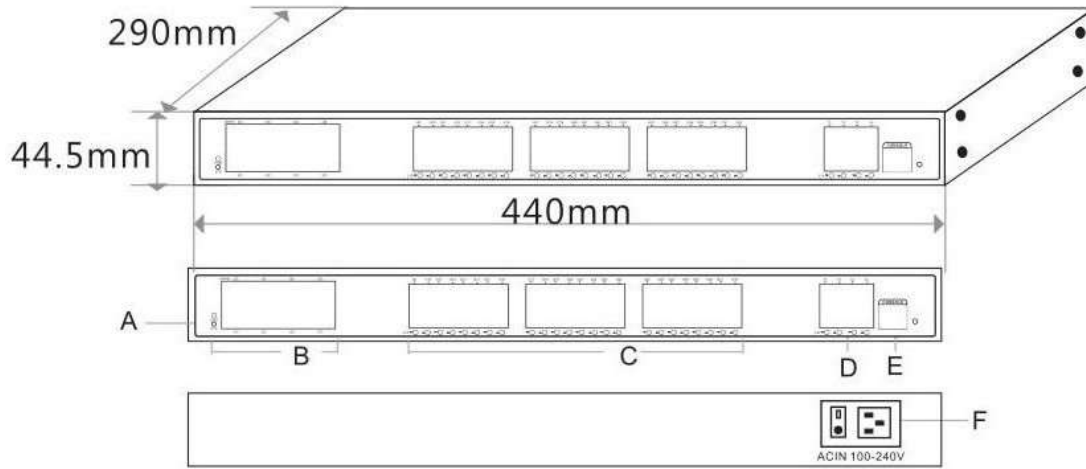
TECHNICAL SPECIFICATION

XENTINO S8244TGL3	
Interface Characteristics	
Fixed Port	8*10/100/1000Base-T RJ45 ports (Data) 24*100/1000Base-X SFP ports (Data) 4*1/10G SFP+ fiber slot ports (Data) 1*Console RS232 port (115200,N,8,1)
Ethernet Port	Port 1-8 support 10/100/1000Base-T, auto-sensing, Full/half duplex
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)
Optical Fiber Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Fiber Port Expansion	Support Turbo overclocking 2.5G optical module expansion and ring network
Optical Cable/Distance	Multi-mode: 850nm / 0~500M(1.25G), 0~300M(10G), Single-mode: 1310nm / 0~ 40KM, 1550nm / 0~120KM.
Chip Parameter	
Network	L3
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3ae
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	598Gbps
Forwarding Rate	107.14Mpps (@64byte)
MAC	32K
Buffer Memory	32M
Jumbo Frame	9.6K
CPU(Hz)	500M
DRAM	2G
FLASH	128M
LED Indicator	Power: PWR(yellow), System: SYS(yellow), Network: Link/Act(yellow), Fiber port: L/A(green)

Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings
Power Supply	
Total PWR / Input Voltage	60W /(AC100-240V)
Power Consumption	Standby<20W, Full Load<45W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1.0A
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension	440*290*44.5mm (L*W*H)
Net /Gross Weight	<3.5kg / <4.3kg
Form Factor	Desktop, 19 inch 1U cabinet
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) Port temperature protection setting No connection port automatic sleep Port green Ethernet Energy-saving setting Broadcast storm control based on port speed SFP+ optical port DDMI real-time digital diagnosis The speed limit of the message flow in the access port, minimum particle size is 64Kbps.
Layer 3 Features	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 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+, RIPv6, IPV6 management, 1000 routing entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs
VLAN	Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation Max 18 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

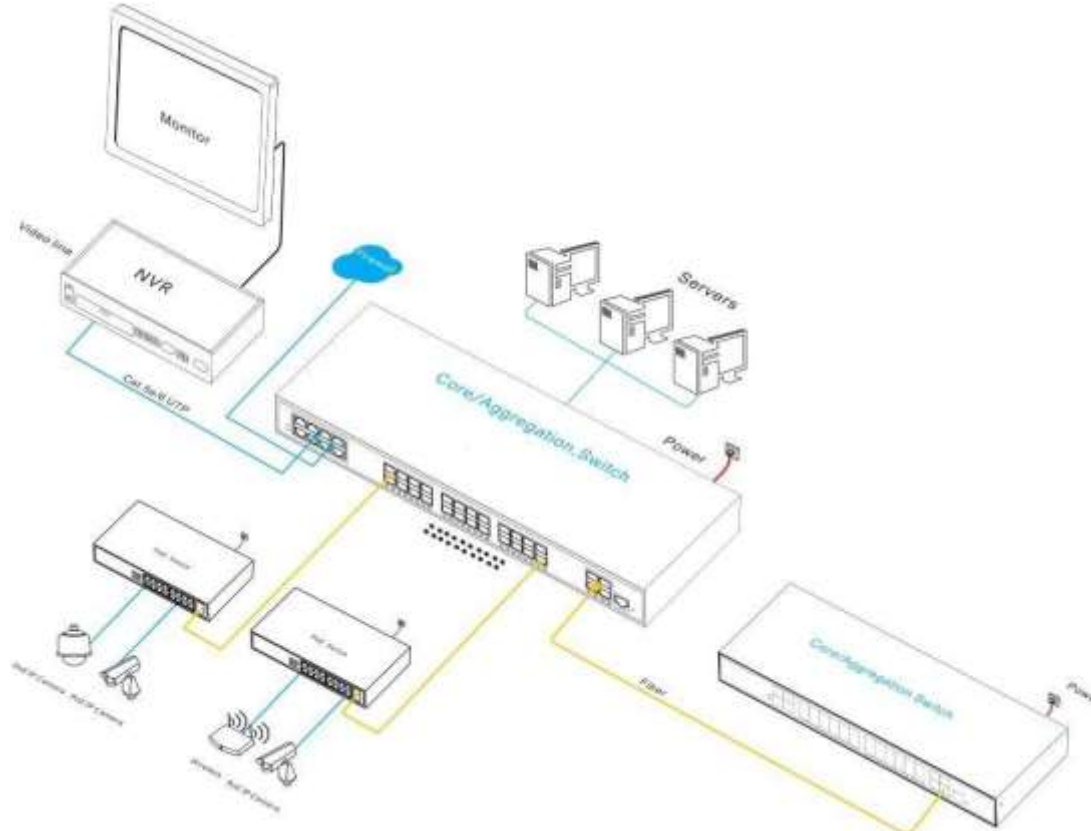
QoS	<p>Flow-based Rate Limiting Flow-based Packet Filtering 8*Output queues of each port 802.1p/DSCP priority mapping Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)</p>
ACL	<p>Port-based Issuing ACL, ACL based on port and VLAN L2 to L4 packet filtering, matching first 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.</p>
Security	<p>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</p>
DHCP	<p>DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay</p>
Management	<p>CPU instant utilization status view Console/AUX Modem/Telnet/SSH2.0 CLI One-key recovery, Cable Diagnose, LLDP Web Management (HTTPS), NTP, System work log, Ping Test ONV NMS- Smart Network Management System Platform (LLDP+SNMP) Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3</p>
System	<p>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</p>

DIMENSION



- A. Working indicate
- B. 8*10/100/1000M RJ45 ports
- C. 24*100/1000M SFP ports
- D. 4*10G SFP+ ports
- E. Console port
- F. Power input port AC100-240V, 50/60Hz

APPLICATION



ORDERING INFORMATION

Model	Description	Built-in Power Supply
S8244TGL3	L3 managed Ethernet aggregation /core fiber switch with 8*10/100/1000M RJ45 ports and 24*100/1000M SFP ports and 4*1/10G SFP+ fiber ports. Support 1U/19 inch rack installation.	60W

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	36-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