OVERVIEW

The **S12284TG** is a 10G uplink managed Ethernet fiber switch independently developed by XENTINO. It has **12*10/100/1000M RJ45** ports and **28*100/1000M SFP** ports and **4*1/10G SFP+** fiber ports. Each port can support wire-speed forwarding.

The **S12284TG** 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

❖ **Gigabit multi fiber port access, 10G SFP+ fiber port uplink**
   o Support Gigabit Ethernet port and gigabit SFP fiber port and 1/10G SFP+ fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
   o Support non-blocking wire-speed forwarding.
   o Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

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

❖ **Security**
   o 802.1X authentication.
   o Port isolation, Storm control.
   o IP-MAC-VLAN-Port binding.

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

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

TECHNICAL SPECIFICATION

XENTINO S12284TG	
Interface Characteristics	
Fixed Port	12*10/100/1000M RJ45 ports (Data) 28*100/1000M SFP ports (Data) 4*1/10G SFP+ ports (Data) 1*Console port (115200,N,8,1)
Ethernet Port	Port 1-12 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)
Optical Fiber Port	1/10G SFP+ optical fiber port, default no include 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	L2+
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 (Non-blocking)
Forwarding Rate	112Mpps (@64byte)
MAC	32K
Buffer Memory	32M
Jumbo Frame	9.6K
CPU(Hz)	500M
DRAM	4G
Flash	256M
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<55W
Power Supply	Built-in power adapter, 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
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
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 23 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	MLD Snooping v1/v2, Multicast VLAN IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	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)

ACL	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.
Security	IP-MAC-VLAN-Port binding ARP inspection, Anti-DoS attack AAA & RADIUS, MAC learning limit Mac black holes, IP source protection IEEE802.1X & MAC address authentication Broadcast storm control, Backup for host datum SSH 2.0, SSL, Port isolation, ARP message speed limit User hierarchical management and password protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	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
System	Category 5 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a

DIMENSION

290mm
44.5mm
440mm

A   B   C   D E

F
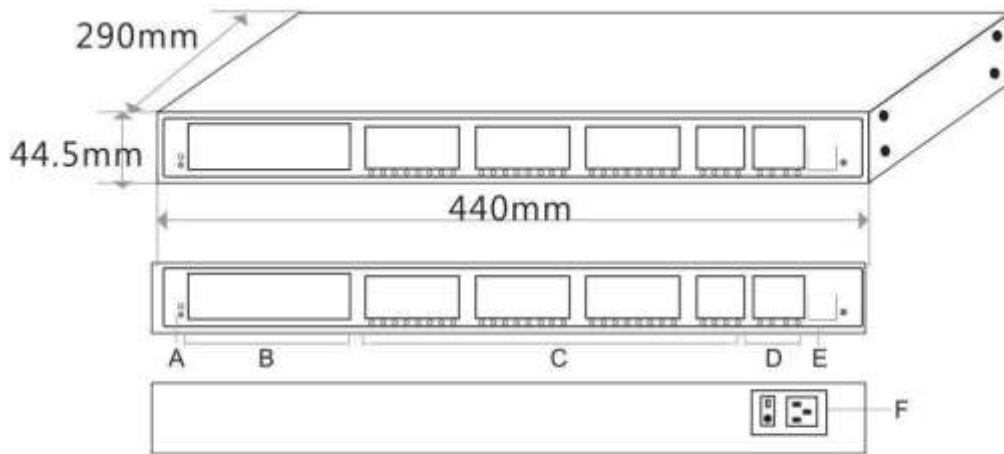
A. Working indicator

B. 12*10/100/1000M RJ45 ports

C. 28*100/ 1000M SPF fiber ports

D. 4*1/10G SPF+ fiber ports

E. Console port

F. Power input port AC100- 240V, 50/ 60Hz

APPLICATION
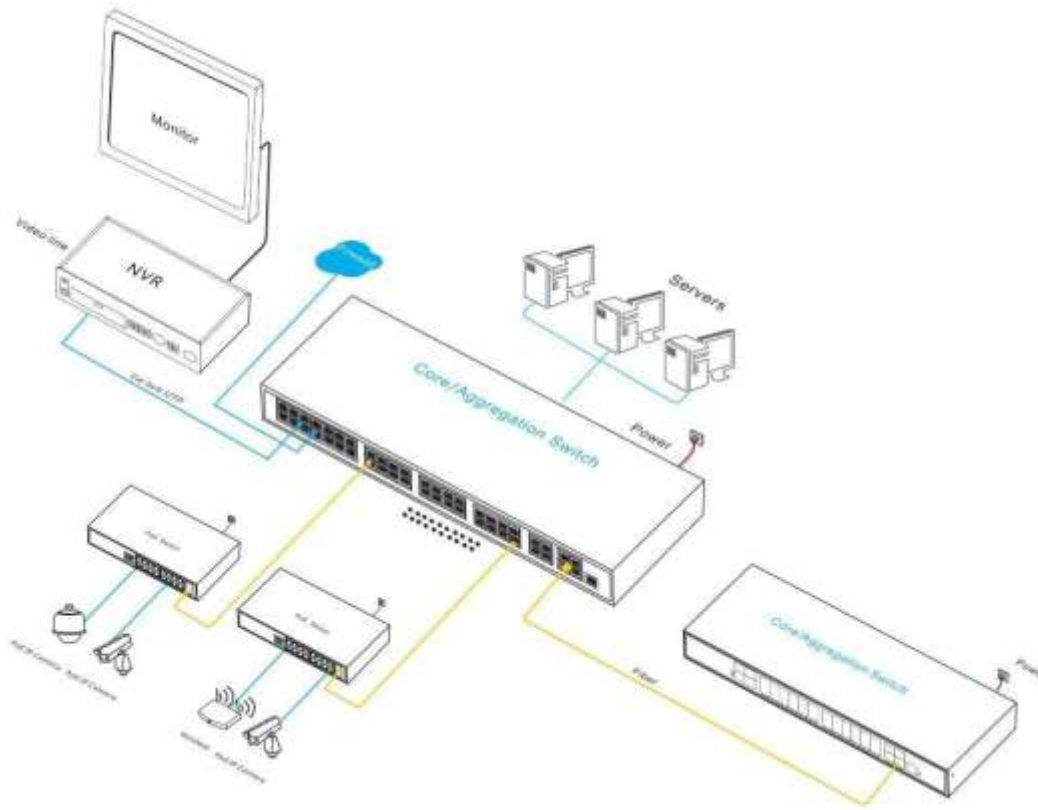
ORDERING INFORMATION

Model	Description	Built-in Power
S12284TG	L2+ managed Ethernet aggregation/core fiber switch with 12*10/100/1000M RJ45 ports and 28*100/1000M SFP ports and 4*1/10G SFP+ fiber ports. Support 1U/19 inch rack installation.	60W
Note: The SFP optical module is not included by default and needs to be purchased separately.		

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	44-port 10G uplink 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