S4804TGPL3

48 Port PoE 4 Port 1/10G SFP+ L3 Managed Ethernet Switch

OVERVIEW

The **S4804TGPL3** is a 10G uplink L3 managed PoE fiber switch independently developed by XENTINO. It has 48*10/100/1000Base-T RJ45 ports and 4*1/10G SFP+ fiber slot ports. Port 1-48 can support IEEE802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 600W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom, etc. through network cable, to meet the network environment that needs high-density PoE power supply. It is suitable for hotel, campus, factory dormitory and small and medium-sized enterprise.

S4804TGPL3 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 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 PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

FEATURES

- **Full Gigabit access, 10G SFP+ fiber port uplink**
  - Supports s Gigabit Ethernet port and 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.

- **Intelligent PoE power supply**

  - 48*10/100/1000Base-T RJ45 ports can support POE power supply to meet the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
  - IEEE802.3af/at PoE standard, without damaging non-PoE devices.
  - Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
  - PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.

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

- **Strong business processing capability**
  - IEEE802.1Q VLAN, flexible VLAN division and QinQ configuration, VoiceVLAN
  - 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, Link, PoE.

- **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 S4804TGPL3	
Interface Characteristics	
Fixed Port	48*10/100/1000Base-T PoE ports (Data&Power) 4*1/10G uplink SFP+ fiber slot ports (Data) 1*RS232 console port(115200,N,8,1)
Ethernet Port	Port 1-48 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 ~ 550M (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 10GBase-LR/SR, IEEE802.3x

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Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	598Gbps (Non-blocking)
Forwarding Rate	131Mpps (@64byte)
CPU	500MHz
DRAM	4G
FLASH	256M
MAC	32K
Buffer Memory	32M
Jumbo Frame	9.6K
LED Indicator	System:SYS(Green), Network:Link (Yellow), PoE: PoE (Green), Fiber port: L/A (Green)
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings
PoE & Power Supply	
PoE Port	Port 1 to 48
PoE Management	PoE working status Delay start of power supply PoE output priority configuration Scheduling of PoE operation and time Total power limit of PoE power supply PoE output power allocation,
Power Supply Pin	Default: 1/2 (+) 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Total PWR / Input Voltage	600W /(AC100-240V)
Power Consumption	Standby<30W, Full Load<600W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 6.6A
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	<4.8kg / <5.5kg
Form Factor	Desktop type,19 inch 1U cabinet installation
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 up to 128 IPV4/IPV6 static route/default route supports up to 128 entries IPV4 dynamic routing, RIPv1/v2, OSPFv2, BGP4+, 4000 routing entries IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries L3 network management function, IPV4/IPV6 dual-stack management 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 26 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out MLD Snooping 1/v2,Multicast VLAN
Port Mirroring	Bidirectional data mirroring based on port
Industrial Ring Network Protocol	G.8032 (ERPS), Recovery time less than 20ms 250 Ring at most, Max 250 devices per ring
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, 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, XENTINO NMS- Smart Network Management System Platform (LLDP+SNMP) Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3
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

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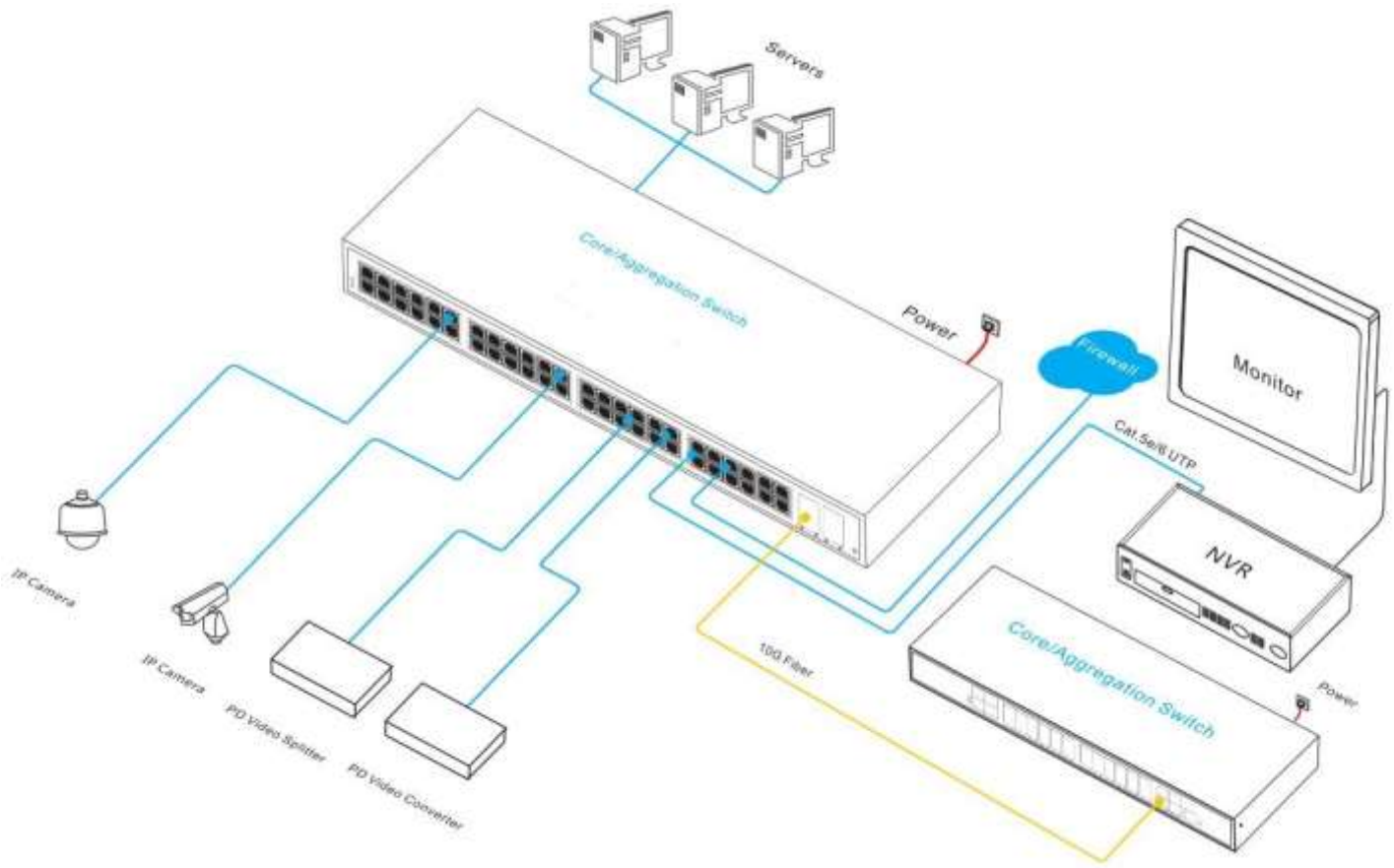
APPLICATION



ORDERING INFORMATION

Model	Description	Built-in Power Supply
S4804TGPL3	L3 managed PoE switch with 48* 10/100/1000M RJ45 ports and 4*1/10G SFP+ fiber ports. Port 1-48 can support IEEE802.3af/at PoE standard. Support 1U/19 inch rack installation.	600W
Note: The SFP optical module is not included by default and needs to be purchased separately.		

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	48 Port PoE 4 Port 1/10G SFP+ L3 Managed Ethernet 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