JetStream 8-Port Gigabit Smart PoE Switch with 2 SFP Slots

MODEL: T1500G-10PS(TL-SG2210P)(UN) 1.0 Datasheet

Highlights

- Features 8 802.3af compliant PoE ports, with total PoE power budget of 53W and useful PoE power management features

- Gigabit Ethernet connections on all ports provide full speed of data transferring

- Advanced security features include IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm Control, DHCP Snooping, 802.1X, and Radius Authentication

- L2/L3/L4 QoS and IGMP snooping optimize voice and video applications

- WEB/CLI managed modes, SNMP, RMON bring abundant management features

- Dual Firmware Image improves reliability and up-time of your network

Overview

TP-Link Gigabit Smart Switch T1500G-10PS is equipped with 8 gigabit RJ45 ports and 2 SFP slots, all RJ45 Ports support the PoE standard with total PoE power budget of 53W and useful PoE power management features. The switch provides high performance, enterprise-level QoS, useful security strategies and rich layer 2 management features.

TP-Link's Gigabit Smart Switch T1500G-10PS is especially designed for the small and medium business networks that require efficient network management. T1500G-10PS comes with a comprehensive set of features, such as Link Aggregation Group, 802.1Q VLAN, Access Control Lists (ACL), Quality of Service (QoS L2 to L4), Storm Control and IGMP Snooping to provide a small or medium-sized business with a network that is geared for growth while ensuring performance and reliability. What's more, its easy-to-use web management interface means faster setup and configuration with less downtime, providing the ideal solution for your business network.

IEEE 802.3at/af-compliant Power over Ethernet

The T1500G-10PS supports 8 ports of IEEE 802.3af-compliant PoE and has a total power supply of 53W to power any 802.3af compliant power device. It's an efficient and cost-effective choice to work with wireless access points, surveillance cameras, IP phones and other PoE supported devices, while getting rid of cables or power lines running around. Compact and flexible, the T1500G-10PS is ideal to flexibly use PoE to deploy wireless access points or IP-based network surveillance cameras for projects or small business networks.

Advanced QoS Features

To integrate voice, data and video service on one network, the switch applies rich QoS policies. Administrator can designate the priority of the traffic based on a variety of means including Port Priority, 802.1P Priority and DSCP Priority, to ensure that voice and video are always clear, smooth and jitter free.In conjunction with the Voice VLAN the switch supports, the voice applications will operate with much smoother performance.

Abundant Layer 2 Features

For more application of layer 2 switches, T1500G-10PS supports a complete lineup of layer 2 features, including 802.1Q tag VLAN, Port Isolation, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function. Any more, the switches provide advanced features for network maintenance such as Loop Back Detection, Cable Diagnostics and IGMP Snooping. IGMP Snooping ensures the switch intelligently forward the multicast stream only to the appropriate subscribers while IGMP throttling & filtering restrict each subscriber on a port level to prevent unauthorized multicast access.

Enterprise Level Management Features

T1500G-10PS is easy to use and manage. It supports various user-friendly standard management features, such as intuitive web-based Graphical User Interface(GUI) or industry-standard Command Line Interface(CLI). SNMP (v1/2/3) and RMON support enables the switch to be polled for valuable status information and send traps on abnormal events.

Specifications

Hardware Specifications & Performance		
Product Picture		
Model		T1500G-10PS
General	Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3af, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p
	Interfaces	8 10/100/1000Mbps RJ45 Ports, all supporting PoE 2 100/1000Mbps SFP Slots (Auto-Negotiation/Auto MDI/MDIX)
	Network Media	10BASE-T: UTP category 3, 4, 5 cable (≤100m) 100BASE-TX/1000Base-T: UTP category 5, 5e or above cable (≤100m) 100Base-FX: MMF SFP Module 1000BASE-X: MMF, SMF
Performance	Switching Capacity	20Gbps
	Packet Forwarding Rate	14.9Mpps
	MAC Address Table	8K
	Packet Buffer	512KB
	Jumbo Frame	9KB
Physical & Environment	PoE Power Budget	53W
	Power Supply	100-240V/AC, 50/60Hz External Power Adapter (Output: 48V/1.25A)
	Maximum Power Consumption	Maximum (PoE on): 64.9W Maximum (PoE off): 9.9W
	Dimensions (W × D × H)	209 × 126 × 26 mm
	FAN Quantity	Fanless
	Operating Temperature	0°C to 40°C (32°F to 104°F)
	Storage Temperature	-40°Cto 70°C (-40°Fto 158°F)
	Operating Humidity	10% to 90%RH, non-condensing
	Storage Humidity	5% to 90%RH, non-condensing
	Certification	CE, FCC

Software Features

L2 Features	• Link Aggregation 　- static link aggregation 　- 802.3ad LACP 　- Up to 6 aggregation groups, containing 4 ports 　　per group • Spanning Tree Protocol 　- 802.1D STP 　- 802.1w RSTP 　- 802.1s MSTP 　- STP Security: Loop back detection, TC Protect, 　　BPDU Filter/Protect, Root Protect	• Loopback Detection • LLDP (LLDP-MED) • 802.3x Flow Control for Full Duplex mode and 　backpressure for Half Duplex mode
L2 Multicast	• 256 IGMP groups • IGMP Snooping 　- IGMP v1/v2/v3 Snooping 　- IGMP Fast Leave	- Multicast VLAN 　- IGMP Snooping Querier 　- Static Multicast Forwarding
VLAN	• VLAN Group 　- Max 512 VLAN Groups (out of 4K VIDs) • 802.1Q Tagged VLAN	
QoS	• 802.1p/DSCP priority • 4 Priority Queues • Queue Scheduling 　- SP (Strict Priority) 　- WRR(Weighted Round Robin) 　- SP+WRR	• Bandwidth Control 　- Port/Flow based Rating Limiting • Voice VLAN
Security	• IP-MAC-Port Binding • DoS Defend • Dynamic ARP Inspection • DHCP Snooping • Static/Dynamic Port Security 　- Up to 64 MAC addresses per port • Broadcast/Multicast/Unicast Storm Control 　- kbps/ratio/pps control mode • IP/Port/MAC based access control	• 802.1X 　- Port based authentication 　- MAC(Host) based authentication 　- Guest VLAN 　- Support Radius authentication and accountability • Port Isolation • Secure web management through HTTPS with 　SSLv3/TLS1.0 • Secure Command Line Interface(CLI) 　management with SSHv1/SSHv2
Management	• Web-based GUI • Command Line Interface(CLI) through telnet • SNMPv1/v2c/v3 • SNMP Trap/Inform • RMON (1,2,3,9 groups) • DHCP Option82 • CPU Monitoring	• Cable Diagnostics • Access Control • SNTP • Ping/Traceroute feature • System Log • Dual Image
MIBs	• MIB II (RFC1213) • Interface MIB (RFC2233) • Ethernet Interface MIB (RFC1643) • Bridge MIB (RFC1493) • P/Q-Bridge MIB (RFC2674) • RMON MIB (RFC2819)	• RMON2 MIB (RFC2021) • Radius Accounting Client MIB (RFC2620) • Radius Authentication Client MIB (RFC2618) • Remote Ping, Traceroute MIB (RFC2925) • Support TP-LINK private MIBs

Ordering Information

Host Switch	
Product Model	Description
T1500G-10PS	JetStream 8-Port Gigabit Smart PoE Switch with 2 SFP Slots
Routers	
Product Model	Description
TL-ER604W	SafeStream Wireless N Gigabit Broadband VPN Router
TL-R470T+	Load Balance Broadband Router
SFP Modules	
Product Model	Description
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 10km distance
TL-SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550m distance
TL-SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX:1550nm/RX:1310nm, 10km
TL-SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX:1310nm/RX:1550nm, 10km
Media Converter	
Product Model	Description
MC210CS	Gigabit single-mode SC SFP Transceiver, up to 15Km, chassis mountable
MC200CM	Gigabit multi-mode SC SFP Transceiver, up to 550m, chassis mountable
MC200L	Gigabit SFP slot supporting mini-GBIC modules, chassis mountable
MC1400	14-slot power supply chassis for TP-Link Media Converter, 19-inch rack-mountable