



# JetStream 24-Port 10/100Mbps + 4-Port Gigabit Smart PoE+ Switch

MODEL: T1500-28PCT(TL-SL2428P)



## Highlights

- Features 24 802.3af/at compliant PoE+ ports, with total PoE power budget of 192W and useful PoE power management features
- 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 JetStream Gigabit Smart Switch T1500-28PCT is equipped with 24 10/100Mbps RJ45 ports , 4 10/100/1000Mbps RJ45 Ports and 2 SFP slots. All the 24 10/100Mbps RJ45 ports support the 802.3af/at (PoE+) standard with total PoE power budget of 192W 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 JetStream Gigabit Smart Switch T1500-28PCT is especially designed for the small and medium business networks that require efficient network management. T1500-28PCT 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 T1500-28PCT supports 8 ports of IEEE 802.3af/at-compliant PoE and has a total power supply of 192W to power any 802.3af/at-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 T1500-28PCT 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 application will operate with much smoother performance.

## Abundant Layer 2 Features

For more application of layer 2 switches, T1500-28PCT 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

T1500-28PCT 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		T1500-28PCT
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 802.3at, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE802.1q, IEEE 802.1x, IEEE 802.1p
	Interfaces	24 10/100Mbps RJ45 Ports, all supporting PoE+, 4 100/1000Mbps RJ45 Ports, 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	12.8 Gbps
	Packet Forwarding Rate	9.5 Mpps
	MAC Address Table	8K
	Packet Buffer	512KB
	Jumbo Frame	9KB
Physical & Environment	PoE Power Budget	192W
	Power Supply	100-240V, 50/60Hz
	Maximum Power Consumption	229.73W
	Dimensions (W × D × H)	440× 180× 44 mm
	FAN Quantity	2
	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	<ul style="list-style-type: none"> <li>• Link Aggregation <ul style="list-style-type: none"> <li>- static link aggregation</li> <li>- 802.3ad LACP</li> <li>- Up to 6 aggregation groups, containing 4 ports per group</li> </ul> </li> <li>• Spanning Tree Protocol <ul style="list-style-type: none"> <li>- 802.1D STP</li> <li>- 802.1w RSTP</li> <li>- 802.1s MSTP</li> <li>- STP Security: Loop back detection, TC Protect, BPDU Filter/Protect, Root Protect</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Loopback Detection</li> <li>• LLDP (LLDP-MED)</li> <li>• 802.3x Flow Control for Full Duplex mode and backpressure for Half Duplex mode</li> </ul>
L2 Multicast	<ul style="list-style-type: none"> <li>• 256 IGMP groups</li> <li>• IGMP Snooping <ul style="list-style-type: none"> <li>- IGMP v1/v2/v3 Snooping</li> <li>- IGMP Fast Leave</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Multicast VLAN</li> <li>- IGMP Snooping Querier</li> <li>- Static Multicast Forwarding</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• VLAN Group <ul style="list-style-type: none"> <li>- Max 512 VLAN Groups (out of 4K VIDs)</li> </ul> </li> <li>• 802.1Q Tagged VLAN</li> </ul>	
QoS	<ul style="list-style-type: none"> <li>• 802.1p/DSCP priority</li> <li>• 4 Priority Queues</li> <li>• Queue Scheduling <ul style="list-style-type: none"> <li>- SP (Strict Priority)</li> <li>- WRR(Weighted Round Robin)</li> <li>- SP+WRR</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bandwidth Control <ul style="list-style-type: none"> <li>- Port/Flow based Rating Limiting</li> </ul> </li> <li>• Voice VLAN</li> </ul>
Security	<ul style="list-style-type: none"> <li>• IP-MAC-Port Binding</li> <li>• DoS Defend</li> <li>• Dynamic ARP Inspection</li> <li>• DHCP Snooping</li> <li>• Static/Dynamic Port Security <ul style="list-style-type: none"> <li>- Up to 64 MAC addresses per port</li> </ul> </li> <li>• Broadcast/Multicast/Unicast Storm Control <ul style="list-style-type: none"> <li>- kbps/ratio/pps control mode</li> </ul> </li> <li>• IP/Port/MAC based access control</li> </ul>	<ul style="list-style-type: none"> <li>• 802.1X <ul style="list-style-type: none"> <li>- Port based authentication</li> <li>- MAC(Host) based authentication</li> <li>- Guest VLAN</li> <li>- Support Radius authentication and accountability</li> </ul> </li> <li>• Port Isolation</li> <li>• Secure web management through HTTPS with SSLv3/TLS1.0</li> <li>• Secure Command Line Interface(CLI) management with SSHv1/SSHv2</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• Command Line Interface(CLI) through console telnet</li> <li>• SNMPv1/v2c/v3</li> <li>• SNMP Trap/Inform</li> <li>• RMON (1,2,3,9 groups)</li> <li>• DHCP Snooping</li> <li>• Ping/Traceroute feature</li> </ul>	<ul style="list-style-type: none"> <li>• DHCP Option82</li> <li>• CPU Monitoring</li> <li>• Cable Diagnostics</li> <li>• Access Control</li> <li>• SNTP</li> <li>• System Log</li> <li>• Dual Image</li> </ul>
MIBs	<ul style="list-style-type: none"> <li>• MIB II (RFC1213)</li> <li>• Interface MIB (RFC2233)</li> <li>• Ethernet Interface MIB (RFC1643)</li> <li>• Bridge MIB (RFC1493)</li> <li>• P/Q-Bridge MIB (RFC2674)</li> <li>• RMON MIB (RFC2819)</li> </ul>	<ul style="list-style-type: none"> <li>• RMON2 MIB (RFC2021)</li> <li>• Radius Accounting Client MIB (RFC2620)</li> <li>• Radius Authentication Client MIB (RFC2618)</li> <li>• Remote Ping, Traceroute MIB (RFC2925)</li> <li>• Support TP-Link private MIBs</li> </ul>

# Ordering Information

Host Switch	
Product Model	Description
T1500G-28PCT	JetStream 24-Port 10/100Mbps + 4-Port Gigabit Smart PoE+ Switch
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

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