



# TP-LINK

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

T1500-28PCT (TL-SL2428P)

### Overview

The T1500-28PCT provides 24 10/100Mbps ports that supports 802.3at/af-compliant PoE, with a total PoE power supply up to 180W, powerful and flexible enough for users to deploy wireless access points or IP-based network surveillance cameras. The switch also comes equipped with 4 10/100/1000Mbps RJ45 ports and 2 combo SFP slots, expanding your network flexibly. In addition, it provides high performance, enterprise-level QoS, useful security strategies and rich layer 2 management features.

TP-LINK Smart PoE Switch T1500-28PCT is a cost-effective product solution for the small and medium business. T1500-28PCT has useful security features. The Storm Control feature protects against Broadcast, Multicast and Unknown unicast Storm. Quality of Service (QoS, L2 to L4) provides enhanced traffic management capabilities to move your data smoother and faster. Anymore, the easy-to-use web management interfaces, along with SNMP and RMON, mean faster setup and configuration with less downtime. For workgroup and departments requiring cost-sensitive layer 2 switch, TP-LINK Smart PoE Switch T1500-28PCT provides you the ideal access-edge solution.

**PoE Features**

- Standard: 802.3at/af compliant with up to 30W per port
- PoE+ Ports: 24 Ports
- PoE Power Budget: 180W
- PoE Schedule(Time-based Settings)

**Layer 2 Features**

- Link Aggregation Control Protocol(LACP)
- 512 VLANs
- Port Isolation
- STP/RSTP/MSTP
- IGMP Snooping
- LLDP(LLDP-MED)

**Security Strategies**

- Access Control List(L2~L4 ACL)
- Storm Control
- Port Security
- SSL and SSH encryptions
- DHCP Filtering

**Quality of Service**

- 4 priority queues
- Support IEEE 802.1P
- DSCP QoS
- Rate limit feature

**Management**

- Web-based GUI
- Command Line Interface
- SNMP v1/v2/v3
- RMON(1,2,3,9 group)



- Details:<http://www.tp-link.com/support/Localesupport.asp>
- German/Austrian/Swiss users are not included



**TP-LINK  
24-Port 10/100Mbps + 4-Port Gigabit  
Smart PoE+ Switch  
T1500-28PCT (TL-SL2428P)**

**IEEE 802.3at/af-compliant Power over Ethernet**

The T1500-28PCT supports 24 ports of IEEE 802.3at/af-compliant PoE and has a total power supply of 180W to power any 802.3at or 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 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 applications 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 Group 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 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 Features & Performance

<b>Product Picture</b>		
<b>Model</b>	T1500-28PCT (TL-SL2428P)	
<b>Physical Features</b>		
<b>Connector</b>	10/100Mbps RJ45 Ports	24
	10/100/1000Mbps RJ45 Ports	4
	Gigabit SFP Slots	2(Combo)
<b>Power Supply</b>	100-240VAC, 50/60Hz	
<b>FAN Quantity</b>	2	
<b>Certifications</b>	CE, FCC	
<b>Dimensions (W × D × H)</b>	17.3*8.7*1.7 in.(440*220*44 mm), 19-inch Rack mount Steel Case, 1U Height	
<b>Environment</b>	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing	
<b>Performance</b>		
<b>Switch Capacity</b>	12.8Gbps	
<b>Forwarding Rate</b>	9.5Mpps	
<b>MAC Address Table</b>	8k	
<b>Package Buffer Memory</b>	2.5Mb	
<b>Jumbo Frame</b>	9KB	

### Software Features

#### L2 Switching Features

- **Link Aggregation**
  - Support 802.3ad LACP
  - Support static link aggregation
  - Up to 6 aggregation groups, containing 4 ports per group
- **Spanning Tree Protocol(STP)**
  - IEEE 802.1D Spanning Tree Protocol
  - IEEE 802.1W Rapid Spanning Tree Protocol
  - IEEE 802.1S Multiple Spanning Tree Protocol
  - STP Security: Loop Protect, TC Protect, BPDU Filter/Protect, Root Protect
- **Multicast**
  - Support IGMP Snooping v1/v2/v3, up to 256 groups
  - Support multicast VLANs, IGMP Immediate Leave, Unknown IGMP Throttling, IGMP Filtering, Static Multicast IP
- **VLAN**
  - Support IEEE802.1Q with 512 VLANs simultaneously (out of 4K VIDs)
- **IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode**

### Quality of Service (QoS)

- Support 802.1p CoS/DSCP priority
- Support 4 priority queues
- Queue scheduling: SP, WRR, SP+WRR
- Port/Flow- based Rate Limiting
- Voice VLAN assure voice applications much smoother performance

### Advanced Security Strategies

- Support Broadcast, Multicast and Unknown unicast Storm Control
- Static/Dynamic Port Security (MAC-based)
- Access Control List (ACL)-L2~L4 package filtering based on source and destination MAC address, IP address, TCP/UDP ports
- SSL and SSH encryptions

### Management

- Support Web-based GUI management mode
- Support Command Line Interface(CLI) through telnet management mode
- SNMP v1/v2c/v3
- RMON (1, 2, 3, 9 groups)
- DHCP/BOOTP Client
- CPU Monitoring
- Port Mirroring (Many to One)

- Cable Diagnostics feature
- Ping/Tracert feature
- System Log

### Ethernet Protocols

- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-TX/FX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.3x Flow control
- IEEE 802.1p QoS
- IEEE 802.1q VLANs / VLAN tagging
- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1W Rapid Spanning Tree (RSTP)
- IEEE 802.1S Multiple Spanning Tree (MSTP)

### 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)
- Remote Ping, Traceroute MIB (RFC2925)
- Support TP-LINK private MIBs

## Ordering Information

Host Switch	
Product Model	Description
T1500-28PCT (TL-SL2428P)	24-Port 10/100Mbps + 4-Port Gigabit Smart PoE+ Switch
Router	
Product Model	Description
TL-ER6120	SafeStream Gigabit Dual-WAN VPN Router
TL-ER5120	Gigabit 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
MC220L	Gigabit SFP slot supporting mini-GBIC modules, chassis mountable
MC1400	14-slot power supply chassis for TP-LINK Media Converter, 19-inch rack-mountable