

# JetStream T1500 Series Smart Switches Datasheet

MODEL: T1500G-8T(TL-SG2008)/T1500G-10PS(TL-SG2210P)/ T1500G-10MPS/T1500-28PCT(TL-SL2428P)



### Highlights

- 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 and Dual Configuration improves reliability and up-time of your network



#### Overview

TP-Link's brand new JetStream T1500 series gigabit smart switches provide huge upgrade comparing with previous versions. New Web UI design features better operating experience. Integrated L2 features such as 802.1Q VLAN, QoS, IGMP Snooping provide cost-effective networking solutions for small and medium-sized businesses without sacrificing enhanced usability and strong performance.

#### **Abundant L2 Features**

T1500 series smart switches supports a complete lineup of L2 features, including IGMP Snooping/ MLD Snooping, 802.1Q/ MAC/ Protocol VLAN, STP/RSTP/MSTP, Link Aggregation Group (LAG), Port Isolation, Port Mirroring, and CPU Mirroring. IGMP Snooping ensures the multicast stream be forwarded intelligently to the appropriate subscribers by the switch, while IGMP Throttling & Filtering restrict each subscriber on a certain level to prevent unauthorized multicast access.

#### **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 that the switches support, Voice Applications will perform better and smoother.

#### **IPv6 Support**

T1500 series switches support comprehensive IPv6 features including IPv6 management, ACL, QoS and MLD Snooping, all of these features help to ensure a smooth migration to IPv6-based network without changing switches in the future.

## **Enterprise Level Management Features**

T1500 series switches supports multiple user-friendly standard management features such as intuitive web-based Graphical User Interface (GUI), industrially standard Command Line Interface (CLI) and SNMP (v1/2/3). These switches support RMON (Remote Network Monitoring), which enables the switch to be polled for valuable status information and send traps when encountering abnormal events. Also, this series of switches support Dual Image function, which makes there be less 'down-time' when switches are being upgraded/downgraded.

# Specifications

Produc	t Picture	<b>**</b>	**************************************	Date of the second seco	<u>**</u> ;**********************************	
Мо	odel	T1500G-8T (TL-SG2008)	T1500G-10PS (TL-SG2210P)	T1500G-10MPS	G-10MPS T1500-28PCT (TL-SL2428P)	
General	Interfaces	8 10/100/1000Mbps RJ45 Ports	8 10/100/1000Mbps RJ45 Ports 2 Gigabit SFP Slots		24 10/100Mbps RJ45 Ports, 4 10/100/1000Mbps RJ45 Port 2 Combo Gigabit SFP Slots	
	PoE Standard		802.3af	802.3af/at	802.3af	
PoE	PoE Ports	/	8, up to 15.4W	8, up to 30W 116W 0Gbps 88Mpps 8K 4.1Mbit 9KB 440V AC, 50/60Hz 15.61W (220V/50Hz) (no PD connected) 139.52W (220V/50Hz)	24, up to 30W	
	PoE Power Budget		53W		192W	
	Switching Capacity	16Gbps	200	bps	12.8Gbps	
Performance	Packet Forwarding Rate	11.84Mpps	14.88Mpps		9.52Mpps	
	MAC Address Table	8K				
	Packet Buffer	4.1Mbit				
	Jumbo Frame	9KB				
	Power Supply	100-240V AC, 50/60Hz				
	Max Power	5 75W (220V/50Hz)	9.92W (220V/50Hz) (no PD connected)	(no PD connected)	21.7W (220V/50Hz) (no PD connected)	
	Consumption		64.89W (110V/60Hz) (with 53W PD connected)	9KB  240V AC, 50/60Hz  15.61W (220W/50Hz) (no PD connected)  139.52W (220W/50Hz) (with 116W PD connected)  53.26 BTU/h (no PD connected)  476.04 BTU/h (with 116W PD connected)	229.73W (110V/60Hz) (with 192W PD connected)	
	Max Heat	19.62 BTU/h	33.85 BTU/h (no PD connected)		74.04 BTU/h (no PD connected)	
	Dissipation	19.02 010/11	221.40 BTU/h (with 53W PD connected)	802.3af/at 8, up to 30W 116W  Gbps  8Mpps  8K 4.1Mbit 9KB  OV AC, 50/60Hz  15.61W (220V/50Hz) (no PD connected) 139.52W (220V/50Hz) (with 116W PD connected) 476.04 BTU/h (with 116W PD connected) 294mm*180mm *444mm 1  °C (32°F to 104°F)  O°C (-40°F to 158°F)  RH, non-condensing	783.84 BTU/h (with 192W PD connected)	
Physical & Environment	Dimensions (W × D × H)	209mm*126mm *26mm	209mm*126mm *26mm		440mm*180mm *44mm	
	Fan Quantity	Fanless	Fanless	1	2	
	Operating Temperature		0°C to 40°	8K  4.1Mbit  9KB  100-240V AC, 50/60Hz  W (220V/50Hz) D connected) W (110V/60Hz) W (210V/50Hz) W (110V/60Hz) W (220V/50Hz) W (110V/60Hz) W (120V/50Hz) W (10 PD connected) W (116W PD connected) W (10 PD connected) W (10 PD connected) W (116W P		
	Storage Temperature		-40°C to 70			
	Operating Humidity	10% to 90% RH, non-condensing				
	Storage Humidity	5% to 90% RH, non-condensing				
	Certification	CE, FCC				

	eatures	La subsation
	Link Aggregation	Loopback Detection
	- Static link aggregation	• Flow Control
	- Up to 8 aggregation groups and up to 8 ports	- 802.3x Flow Control
	per group	• Mirroring
	- 802.3ad LACP	- Port Mirroring
L2 Features	Spanning Tree Protocol	- One-to-One
	- 802.1D STP	- Many-to-One
	- 802.1w RSTP	- Flow-Based
	- 802.1s MSTP	- Ingress/Egress/Both
	- STP Security: Loop back detection, TC Protect,	- CPU Mirroring
	BPDU Filter/Protect, Root Protect	<ul> <li>Device Link Detect Protocol (DLDP)</li> </ul>
	• 512 IPv4, IPv6 shared multicast groups	MLD Snooping
	• IGMP Snooping	- MLD v1/v2 Snooping
	- IGMP v1/v2/v3 Snooping	- Fast Leave
L2 Multicast	- Fast Leave	- MLD Snooping Querier
	- IGMP Snooping Querier	- Static Group Config
	- IGMP Authentication	Multicast VLAN Registration
	- Static Group Config	Multicast Filtering
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VLAN	• VLAN Group	Protocol VLAN
	- Max. 4K VLAN Groups	• GVRP
	• 802.1Q tag VLAN	<ul> <li>Voice VLAN</li> </ul>
	• MAC VLAN	
	802.1p CoS/DSCP priority	• Actions for flows
	8 priority queues	- Mirror (to supported interface)
	Priority Schedule Mode	- Redirect (to supported interface)
	- SP (Strict Priority)	- Rate Limit
QoS	- WRR (Weighted Round Robin)	- QoS Remark
	Queue Weight Config	• Storm Control
	Bandwidth Control	- Multiple Control Modes (kbps/ratio/pps)
	- Port/Flow based Rating Limit	- Broadcast/Multicast/Unknown-Unicast Control
	Smoother Performance	
	Support up to 230 entries	- TCP Flag
	• Time-Range	- TCP/UDP Source Port
	- Time Slice	- TCP/UDP Destination Port
	- Week Time-Range	- DSCP/IP TOS
	- Absolute Time-Range	• IPv6 ACL
	- Holiday	Combined ACL
	• Time-based ACL	Rule Operation
	• MAC ACL	- Permit/Deny
٨٥١	- Source MAC	*
ACL		Policy Action     Misses
	- Destination MAC	- Mirror
	- VLANID	- Rate Limit
	- User Priority	- Redirect
	- Ether Type	- QoS Remark
	• IP ACL	<ul> <li>ACL Rules Binding</li> </ul>
	- Source IP	- Port Binding
	- Destination IP	- VLAN Binding
	- IP Protocol	

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