

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

Product Picture Model		Market and the second	M-T. MIRHER	Dan de la companya de		
		T1500G-8T (TL-SG2008)	T1500G-10PS (TL-SG2210P)	T1500G-10MPS	T1500-28PCT (TL-SL2428P)	
General	Interfaces	8 10/100/1000Mbps 8 10/100/1000Mbps RJ45 Ports 4 10/100/1000Mbps R RJ45 Ports 2 Gidabit SEP Slots 4 10/100/1000Mbps R		24 10/100Mbps RJ45 Ports, 4 10/100/1000Mbps RJ45 Por 2 Combo Gigabit SFP Slots		
PoE	PoE Standard	/	802.3af	802.3af/at	802.3af	
	PoE Ports		8, up to 15.4W	8, up to 30W	24, up to 30W	
	PoE Power Budget		53W	116W	192W	
Performance	Switching Capacity	16Gbps	os 20Gbps		12.8Gbps	
	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 Consumption	5.75W (220W50Hz)	9.92W (220V/50Hz) (no PD connected)	15.61W (220V/50Hz) (no PD connected)	21.7W (220V/50Hz) (no PD connected)	
			64.89W (110V/60Hz) (with 53W PD connected)	139.52W (220V/50Hz) (with 116W PD connected)	229.73W (110V/60Hz) (with 192W PD connected)	
	Max Heat Dissipation	19.62 BTU/h	33.85 BTU/h (no PD connected)	53.26 BTU/h (no PD connected)	74.04 BTU/h (no PD connected)	
Physical & Environment			221.40 BTU/h (with 53W PD connected)	476.04 BTU/h (with 116W PD connected)	783.84 BTU/h (with 192W PD connected)	
	Dimensions (W × D × H)	209mm*126mm *26mm	209mm*126mm *26mm	294mm*180mm *44mm	440mm*180mm *44mm	
	Fan Quantity	Fanless	Fanless	1	2	
	Operating Temperature	0°C to 40°C (32°F to 104°F)				
	Storage Temperature	-40°C to 70°C (-40°F to 158°F)				
	Operating Humidity	10% to 90% RH, non-condensing				
	Storage Humidity	5% to 90% RH, non-condensing				
	Certification		(CE, FCC		

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

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Security	• AAA	- 253 Entries
	• 802.1X	- Source IP+Source MAC
	- Port based authentication	IPv6 Source Guard
	- MAC (Host) based authentication	- 183 Entries
	- Authentication Method includes PAP/EAP-MD5/	- Source IPv6 Address+Source MAC
	EAP-TLS/EAP-TTLS/EAP-PEAP	• DoS Defend
	- MAB	 Static/Dynamic/Permanent Port Security
	- Guest VLAN	- Up to 64 MAC addresses per port
	- Support Radius authentication and accountability	 Broadcast/Multicast/Unicast Storm Control
	• IP/IPv6-MAC Binding	- kbps/ratio/pps control mode
	- 512 Binding Entries	Port Isolation
	- DHCP Snooping	 Secure web management through HTTPS with
	- DHCPv6 Snooping	SSLv3/TLS1.0
	- ARP Inspection	 Secure Command Line Interface (CLI)
	- ND Detection	management with SSHv1/SSHv2
	• IP Source Guard	 IP/Port/MAC based access control
	• IPv6 Dual IPv4/IPv6	- Ping6
	Multicast Listener Discovery (MLD) Snooping	- Tracert6
	• IPv6 neighbor discovery (ND)	- Telnet (v6)
IPv6 Support	• Path maximum transmission unit (MTU) discovery	- IPv6 SNMP
	Internet Control Message Protocol (ICMP) version 6	- IPv6 SSH
	• TCPv6/UDPv6	- IPv6 SSL
	• IPv6 applications	- Http/Https
	- DHCPv6 Client	- IPv6 TFTP
	• Web-based GUI	DHCP/BOOTP Client
	Command Line Interface (CLI) through telnet	Dual Image, Dual Configuration
	• SNMPv1/v2c/v3	• CPU Monitoring
Management	• SNMP Trap/Inform	Cable Diagnostics
	• RMON (1,2,3,9 groups)	• EEE
	• SDM Template	• System Log
		• 802.1ab LLDP/ LLDP-MED
MIBs	• MIB II (RFC1213)	• RMON2 MIB (RFC2021)
	Interface MIB (RFC2233)	Radius Accounting Client MIB (RFC2620)
	Ethernet Interface MIB (RFC1643)	Radius Authentication Client MIB (RFC2618)
	Bridge MIB (RFC1493)	Remote Ping, Traceroute MIB (RFC2925)
	• P/Q-Bridge MIB (RFC2674)	Support TP-Link private MIBs
	• RMON MIB (RFC2819)	

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