



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

Specifications

Hardware Specifications & Performance

Product Picture					
Model		T1500G-8T (TL-SG2008)	T1500G-10PS (TL-SG2210P)	T1500G-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 Ports, 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	20Gbps		12.8Gbps
	Packet Forwarding Rate	11.84Mpps	14.88Mpps		9.52Mpps
	MAC Address Table	8K			
	Packet Buffer	4.1Mbit			
	Jumbo Frame	9KB			
Physical & Environment	Power Supply	100-240V AC, 50/60Hz			
	Max Power Consumption	5.75W (220V/50Hz)	9.92W (220V/50Hz) (no PD connected) 64.89W (110V/60Hz) (with 53W PD connected)	15.61W (220V/50Hz) (no PD connected) 139.52W (220V/50Hz) (with 116W PD connected)	21.7W (220V/50Hz) (no PD connected) 229.73W (110V/60Hz) (with 192W PD connected)
	Max Heat Dissipation	19.62 BTU/h	33.85 BTU/h (no PD connected) 221.40 BTU/h (with 53W PD connected)	53.26 BTU/h (no PD connected) 476.04 BTU/h (with 116W PD connected)	74.04 BTU/h (no 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 Features

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, BPDU Filter/Protect, Root 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 • Device Link Detect Protocol (DLDP)
L2 Multicast	• 512 IPv4, IPv6 shared multicast groups • IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - IGMP Authentication - Static Group Config	• MLD Snooping - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Static Group Config • Multicast VLAN Registration • Multicast Filtering
VLAN	• VLAN Group - 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

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