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JetStream T2500G Series L2 Managed Switches

MODEL: T2500G-10TS (TL-SG3210) Datasheet

Highlights

-Gigabit Ethernet connections on all ports provide full speed of data transferring

-Selective RJ45 console port and Micro-USB console port

-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 and Dual Image bring abundant management features

Overview

TP-Link's JetStream T2500G series L2 managed switches are designed exclusively for the networking needs of growing businesses, with an extensive suite of management features and security functions available. These TP-Link products are cost-effective for small and medium-sized businesses, making them ideal networking solutions.

Abundant L2 Features

T2500G series switches support a complete lineup of L2 features, including 802.1Q tag VLAN, QinQ, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function. In addition, the switches provide advanced features for network maintenance, including LoopBack Detection and Cable Diagnostics. IGMP Snooping ensures intelligent forwarding of the multicast stream to only the appropriate subscribers, while IGMP throttling & filtering restricts each subscriber on a port level to prevent unauthorized multicast access.

Secure Networking

The T2500G series switches provide IP-MAC-Port Binding, Port Security, Storm control and DHCP Snooping which protect against broadcast storms, ARP attacks, etc. It integrates some typical DoS attacks to select. You can protect these attacks more easily ever than before. In addition, the Access Control Lists (ACL, L2 to L4) feature restricts access to sensitive network resources by denying packets based on source and destination MAC address, IP address, TCP/UDP ports and even VLAN ID. Moreover, the switch supports 802.1X authentication, which is used in conjunction with a RADIUS server to require some authentication information before access to the network is allowed. Guest VLAN function supports to enable the non-802.1X clients to access the specific network resource.

Advanced QoS Features

To integrate voice, data and video service on one network, T2500G series switches apply 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.

Enterprise Level Management Features

T2500G series switches are 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), either administration traffic can be protected through SSL or SSH encryptions. SNMP (v1/v2c/v3) and RMON support enables the switch to be polled for valuable status information and send traps on abnormal events. And it also supports Dual Image, which provides reduced down-time for the switches, when the image is being upgraded / downgraded.

Specifications

Hardware Features & Performance

Product Picture		
Model		T2500G-10TS (TL-SG3210)
General	Standard and Protocols	IEEE 802.3i 10BASE-T Ethernet IEEE 802.3u 100BASE-TX/FX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X IEEE 802.3x Flow control IEEE 802.3ad Link Aggregation IEEE 802.1d Spanning Tree Protocol (STP) IEEE 802.1s Rapid Spanning Tree (RSTP) IEEE 802.1w Multiple Spanning Tree (MSTP) IEEE 802.1q VLAN IEEE 802.1x Port-based Network Access Control IEEE 802.1p QoS
	Network Media	100BASE-TX/1000Base-T: UTP category 5, 5e or above cable (maximum 100m) 1000BASE-X: MMF, SMF
	Interface	8 10/100/1000Mbps RJ45 ports 2 Gigabit SFP Slots
Performance	Power Supply	20Gbps
	Fan Quantity	14.9Mpps
	MAC Address Table	8K
	Packet Buffer	4Mbit
	Jumbo Frame	9KB
Physical & Environment	Power Supply	100-240V AC, 50/60Hz
	Maximum Power Consumption (220V/50Hz)	8.38W
	Dimensions (W × D × H)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)
	Fan Quantity	Fanless
	Operating Temperature	0°C~40°C (32°F~104°F)
	Storage Temperature	-40°C~70°C (-40°F~158°F)
	Operating Humidity	10% ~ 90%RH, non-condensing
	Storage Humidity	5%~90%RH, non-condensing
	Certification	CE, FCC

Software Features

L2 Features	• Link Aggregation - static link aggregation - 802.3ad LACP - Up to 8 aggregation groups, containing 8 ports per group • 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 - HOL Blocking Prevention • Port Mirroring - One-to-One - Many-to-One - Flow-Based - Tx/Rx/Both • LLDP, LLDP-MED • DHCP VLAN Relay • L2PT
L2 Multicast	• 256 IPv4,IPv6 shared IGMP groups • IGMP Snooping - IGMP v1/v2/v3 Snooping - IGMP Fast Leave - Multicast VLAN - IGMP Snooping Querier - Limited IP Multicast - Static Multicast Forwarding	• MLD Snooping - MLD v1/v2 Snooping - MLD Snooping Querier - Fast Leave - Limited IP Multicast - Static Multicast Forwarding
VLAN	• VLAN Group - Max. 4K VLAN Groups • 802.1Q tag VLAN	• MAC VLAN • Protocol VLAN • VLAN VPN (QinQ) • GVRP
QoS	• 802.1p CoS/DSCP priority • 4 priority queues • Queue scheduling - SP (Strict Priority) - WRR (Weighted Round Robin) - SP+WRR • Bandwidth Control - Port/Flow based Rating Limiting	• Smoother Performance • Actions for flows - Mirror (to supported interface) - Redirect (to supported interface) - Rate Limit - QoS Remark • Voice VLAN
ACL	• Supports up to 64 entries • MAC ACL - Source MAC - Destination MAC - VLAN ID - User Priority - EtherType • Standard IP ACL - Source IP - Destination IP	• ACL apply to Port/VLAN • Extended IP ACL - Source IP - Destination IP - Fragment - IP Protocol - TCP Flag - TCP/UDP Port - DSCP/IP TOS

Software Features

Security	• AAA • DHCP Snooping • IP-MAC-Port Binding • ARP Inspection • Static/Dynamic Port Security - Up to 64 MAC addresses per port • Broadcast/Multicast/Unicast Storm Control - kbps/ratio/pps control mode • IP/Port/MAC based access control • DoS Defend	• 802.1X - Port based authentication - MAC(Host) based authentication - Guest VLAN - Support Radius authentication and accountability • Port Isolation • Secure web management through HTTPS with SSLv3/TLS1.0 • Secure Command Line Interface(CLI) management with SSHv1/SSHv2 • PPPoE
Management	• Web-based GUI • Command Line Interface(CLI) through console port, telnet • SNMPv1/v2c/v3 • SNMP Trap/Inform • RMON (1,2,3,9 groups) • DHCP Option82	• CPU Monitoring • Cable Diagnostics • Access Control • SNTP • System Log • Dual Image • IPv6 Management
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

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