TP-LINK®

JetStream

L2 Managed Gigabit Switch

T2600G-28MPS Datasheet

JetStream 24-Port Gigabit L2 Managed PoE+ Switch with 4 SFP Slots
T2600G-28MPS (TL-SG3424P)

Overview

The T2600G-28MPS provides 24 10/100/1000Mbps ports that support 802.3at/af-compliant PoE , with a total PoE power supply of up to 384W, giving users the power and flexibility to deploy wireless access points or IP-based network surveillance cameras. In addition, it provides high performance static routing, enterprise-level QoS, advanced security strategies and rich layer 2 management attributes. With all these advanced features, the JetStream Gigabit L2 Managed PoE Switch is an ideal choice for small and medium business networking solutions.

T2600G-28MPS provides high performance, powerful L2 and L2+ features like static routing and other advanced security strategies. OAM, L2PT and sFlow can meet the requirement of large network administrators. The IP-MAC-Port-VID Binding and Access Control List (ACL) functions protect against broadcast storm, ARP and Denial-of-Service (DoS) attacks, etc. 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 CLI, SNMP and RMON, mean faster setup and configuration with less downtime. For workgroup and departments requiring cost-sensitive Layer 2 Switch and gigabit capability, TP-LINK JetStream L2 managed Switch T2600G-28MPS provides you the ideal access-edge solution.

IEEE 802.3at/af-compliant Power over Ethernet

The T2600G-28MPS supports 24 ports of IEEE 802.3at/af-compliant PoE and has a total power supply of 384W 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 T2600G-28MPS is ideal to flexibly use PoE to deploy wireless access points or IP-based network surveillance cameras for projects or small business networks.

Secure Networking

The T2600G-28MPS provides 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.

Abundant L2 and L2+ features

T2600G-28MPS supports a complete lineup of L2 features, including 802.1Q tag VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function. In addition, the switch provides 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. Moreover, T2600G-28MPS supports L2+ feature, static routing, which is a simple way to provide segmentation of the network with internal routing through the switch and directs network traffic for more efficient use.

IPv6 Support

T2600G-28MPS supports various IPv6 functions, such as Dual IPv4/IPv6 Stack, MLD Snooping, IPv6 ACL, DHCPv6 Snooping, IPv6 Interface, Path Maximum Transmission Unit (PMTU) Discovery and IPv6 Neighbor Discovery, which guarantees your network is ready for the Next Generation Network (NGN) without the need to upgrade your network equipment.

Ethernet OAM

The T2600G-28MPS provide 802.3ah OAM and Device Link Detection Protocol (DLDP) improves the monitoring and troubleshooting of Ethernet networks, while helping to facilitate network management.and send traps on abnormal events.

Enterprise Level Management Features

T2600G-28MPS is 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.

Specifications

Hardware Features & Performance		
Product Picture		
Model		T2600G-28MPS
Hardware Features		
General	Interfaces	24 10/100/1000Mbps RJ45 Ports
		4 1000Mbps SFP Slots
	Console Port	1 RJ45 Console Port
		1 Micro-USB Console Port
Performance	Switching Capacity	56Gbps
	Forwarding Rate	41.7Mpps
	MAC Address Table	16K
	Packet Buffer Memory	1.5Mb
	Jumbo Frame	9216Bytes
	Power Budget	384W
Physical & Environment	Power Supply	100-240V, 50/60Hz
	Maximum Power Consumption	Maximum (PoE on): 468.7W (110V/50Hz)
	Dimension (W * D * H)	17.3*13*1.7 in.(440*330*44 mm)
	Weight	6.0kg
	FAN Quantity	2
	Operation Temperature	0℃~40℃ (32 ℉ ~104 ℉)
	Storage Temperature	-40℃ ~70℃ (-40 ℉ ~158 ℉)
	Operation Humidity	10%~90% non-condensing
	Storage Humidity	5%~90% 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
		• L2PT

L2 Multicast	• Support 1000(IPv4/IPv6)IGMP groups
	• IGMP Snooping
	  - IGMP v1/v2/v3 Snooping
	  - IGMP Fast Leave
	  - Multicast VLAN
	  - IGMP Authentication
	  - IGMP Snooping Querier
	  - Limited IP Multicast(256 profiles and 16 entries per profile)
	  - Static Multicast
		• MLD Snooping
		  - MLD v1/v2 Snooping
		  - MLD Snooping Querier
		  - Fast Leave
		  - Limited IP Multicast(256 profiles and 16 entries per profile)
		  - Static Multicast

L3 Features	• 16 IP Interfaces
	  - supports IPv4 interface
	  - supports IPv6 interface
		• Proxy ARP
		• Static Routing
		• 48 static routes

PoE	• 802.3af/at • Up to 30W per port • 24 PoE+ Ports	• PoE Schedule(Time-based Settings) • 384W Power Budget

VLAN	• VLAN Group
	  - 4K VLAN Groups
	• 802.1Q Tagged VLAN
	• MAC VLAN
	  - 256 Groups
	• Protocol VLAN
	  - 16 Groups
	  - 16 Protocols
		• Private VLAN
		• GVRP
		• VLAN VPN (QinQ)
		  - Port-Based QinQ
		  - Selective QinQ
		• VLAN VPN (QinQ)

QoS	• 802.1p/DSCP priority
	• 8 Priority Queues
	• Queue Scheduling
	  - SP(Strict Priority)
	  - WRR(Weighted Round Robin)
	  - SP+WRR
	• Bandwidth Control
	  - Port/Flow based Rating Limiting
		• Actions for flows
		  - Mirror(to supported interface)
		  - Redirect(to supported interface)
		  - Rate Limit
		  - QoS Remark

ACL	• Supports up to 300 entries(up to 600 by Access Template)
	• Time-Based ACL
	• MAC ACL
	  - Source MAC
	  - Destination MAC
	  - VLAN ID
	  - User Priority
	  - EtherType
	• Combined ACL
	  - Source MAC
	  - Destination MAC
	  - VLAN ID
	  - EtherType
	  - User Priority
	  - Source IP
	  - Destination IP
		• Standard IP ACL
		  - Source IP
		  - Destination IP
		• Extended IP ACL
		  - Source IP
		  - Destination IP
		  - Fragment
		  - IP Protocol
		  - TCP Flag
		  - TCP/UDP Port
		  - DSCP/IP TOS
		• IPv6 ACL

Software Features		

Security	• IP-MAC-Port Binding
	• DoS Defend
	• Dynamic ARP Inspection
	• IP Source Guard
	• Static/Dynamic Port Security
	  - Up to 64 MAC addresses per port
	• Broadcast/Multicast/Unicast Storm Control
	  - kbps/ratio/pps control mode
	• 802.1X
	  - Port based authentication
	  - MAC(Host) based authentication
	  - Guest VLAN
	  - Support Radius authentication and accountability
		• AAA (including TACACS+)
		• 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

OAM	• 802.3ah Ethernet Link OAM	• Device Link Detect Protocol(DLDP)
Management	• Web-based GUI • Command Line Interface(CLI) through console port, telnet • sFlow • SNMPv1/v2c/v3 • SNMP Trap/Inform • RMON (1,2,3,9 groups) • SDM Template • PPPoE Circuit ID • DHCP/BOOTP Client • DHCP Snooping	• DHCP Option82 • DHCP Relay • 802.1ab LLDP/LLDP-MED • CPU Monitoring • Cable Diagnostics • Access Control • Password Recovery • SNTP • System Log

IPv6 Support	• IPv6 Dual IPv4/IPv6
	• Multicast Listener Discovery(MLD) Snooping
	• IPv6 ACL
	• IPv6 Interface
	• Static IPv6 Routing
	• DHCPv6 Relay
	• DHCPv6 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

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

Ordering Information

Host Switch	
Product Model	Description
T2600G-28MPS	JetStream 24-Port Gigabit L2 managed POE+ Switch with 4 SFP Slots
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
Router	
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

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