Switch Product Features

Highlights

- Gigabit Ethernet connections on all ports provide full speed of data transferring
- L2+ Feature ——Static Routing, helps route internal traffic for more efficient use of network resources
- 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
- Comprehensive IPv6 support for management, QoS and ACL
- Web/CLI managed modes, SNMP, RMON and Dual Image bring abundant management features

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.

Abundant L2 and L2+ features

TP-Link JetStream smart switches support 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 802.3x Flow control function. IGMP Snooping ensures the multicast stream be forwarded intelligently to the appropriate subscribers by the switch, while IGMP Throttling & Filtering restricts each subscriber on a certain level to prevent unauthorized multicast access. Besides, these smart switches also support L2+ features like static routing. It is a simple way to provide segmentation of the network with internal routing through the switch and helps network traffic to be more efficient.

Enterprise Level Management Features

TP-Link JetStream smart switches support multiple user-friendly standard management features such as intuitive web-based Graphical User Interface (GUI), industrially standard Command Line Interface (CLI) and SNMP (v1/v2c/v3). 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.

IPv6 Support

TP-Link JetStream smart 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.



Specifications

Hardware F	eatures & Perfor	mance			
Prod	uct Picture	P. M		() () () () () () () () () ()	
	Model	TL-SG2008 V4	TL-SG2008P V3	TL-SG2210P V5	
	Interface	8 10/100/1000Mbps RJ45 Ports	8 10/100/1000Mbps RJ45 ports	8 10/100/1000Mbps RJ45 Ports 2 Gigabit SFP Slots	
	Flash	32 MB			
General	DRAM	256 MB			
	Port Standard	IEEE 802.3i:10BASE-T Ethernet; IEEE 802.3u:100BASE-X Fast Ethernet; IEEE 802.3ab:1000BASE-T Gigabit Ethernet; IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber) (only for TL-SG2210P)			
	PoE Standard		802.3af/at	802.3af/at	
PoE	PoE Ports		4, up to 30 W	8, up to 30 W	
	PoE Power Budget		62 W	61 W	
	Switching Capacity	16 Gbps	16 Gbps	20 Gbps	
	Packet Forwarding Rate	11.90 Mpps		14.88 Mpps	
	MAC Address Table	8K			
Performance	Packet Buffer	4.1 Mbit			
	Transmission Method	Store and Forward			
	Number of IP Interfaces	16			
	Number of Static Routers	32 (IPv4, IPv6)			
	Jumbo Frame	9 KB			
	Power Supply	12 VDC/1 A External Adapter or Obtain Power from PoE Source	53.5 VDC/1.31 A External Ada	3.5 VDC/1.31 A External Adapter	
	Max Power Consumption	6.4 W (220 V/50 Hz)	77.3 W (110 V/60 Hz) (with 62 W PD connected)	77.8 W (110 V/60 Hz) (with 61 W PD connected)	
	Max Heat Dissipation	21.84 BTU/hr (220 V/50 Hz)	263.6 BTU/hr (110 V/60 Hz) (with 62 W PD connected)	265.3 BTU/hr (110 V/60 Hz) (with 61 W PD connected)	
	Standby Power Consumption	2.56 W (220 V/50 Hz)	2.8 W (110 V/60 Hz)	4.5 W (110 V/60 Hz)	
Physical & Environment	Dimensions (W x D x H)	8.2 × 4.9 × 1.0 in (209 × 126 × 26 mm)			
	Fan Quantity	Fanless			
	Installation	Desktop/Wall-Mounting			
	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)			
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)			

Software Features	3	
Model	TL-SG2008 V4 / TL-SG2008P V3/ TL-SG2210P V5 SG2218P / TL-SG2428P V5/ TL-SL2428P V6	/TL-SG2210MP V4 / TL-SG2016P / TL-SG2218 / TL-
SDN Support	Support Omada Hardware Controller (OC200/OC300), Software Controller Automatic Device Discovery Batch Configuration Batch Firmware Upgrading	Intelligent Network MonitoringAbnormal Event WarningsUnified ConfigurationReboot Schedule
L2+ Features	 16 IP Interfaces Support IPv4/IPv6 Interface Static Routing 32 IPv4/IPv6 Static Routes DHCP Server DHCP Relay DHCP Interface Relay DHCP VLAN Relay DHCP L2 Relay 	Static ARPProxy ARPGratuitous ARP
L2 Features	Link Aggregation Static link aggregation 802.3ad LACP Up to 8 aggregation groups and up to 8 ports per group Spanning Tree Protocol 802.1D STP 802.1w RSTP 802.1s MSTP STP Security: TC Protect, BPDU Filter/Protect, Root Protect Loopback Detection	 Flow Control 802.3x Flow Control Mirroring Port Mirroring CPU Mirroring One-to-One Many-to-One Flow-Based Ingress/Egress/Both Device Link Detect Protocol (DLDP) 802.1ab LLDP/ LLDP-MED
L2 Multicast	511 IPv4, IPv6 shared multicast groups IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - Static Group Config Multicast VLAN Registration (MVR) Multicast Filtering	 MLD Snooping MLD v1/v2 Snooping Fast Leave MLD Snooping Querier Static Group Config Limited IP Multicast (256 profiles and 16 entries per profile)
VLAN	VLAN Group- Max. 4K VLAN Groups802.1Q tag VLANMAC VLAN (12 entries)	Protocol VLANGVRPVoice 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 Storm Control Multiple Control Modes(kbps/ratio) Broadcast/Multicast/Unknown-Unicast Control

Software Feature	s	
Model	TL-SG2008 V4 / TL-SG2008P V3 / TL-SG2210P V5 / TL-SG2210MP V4 / TL-SG2016P / TL-SG2218 / TL-SG2218P / TL-SG2428P V5 / TL-SL2428P V6	
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 User Priority Ether Type IP ACL Source IP Destination IP IP Protocol TCP Flag TCP/UDP Source 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 Actions for flows Mirror (to supported interface) Redirect (to supported interface) Rate Limit QoS Remark
Security	AAA 802.1X Port based authentication MAC (Host) based authentication Authentication Method includes PAP/EAP-MD5 MAB Guest VLAN Support Radius authentication and accountability IP/IPv6-MAC Binding 512 Binding Entries DHCP Snooping DHCPv6 Snooping ARP Inspection ND Detection ND Detection ND Snooping IP Source Guard 253 Entries Source IP+Source MAC	 IPv6 Source Guard - 183 Entries - Source IPv6 Address+Source MAC DoS Defend DHCP Filter Static/Dynamic/Permanent Port Security - Up to 64 MAC addresses per port Broadcast/Multicast/Unicast Storm Control - kbps/ratio control mode Port Isolation Secure web management through HTTPS with SSLv3/TLS 1.2 Secure Command Line Interface (CLI) management with SSHv1/SSHv2 IP/Port/MAC based access control

Software Features	6	
Model	TL-SG2008 V4 / TL-SG2008P V3 / TL-SG2210P V5 / TL-SG2210MP V4 / TL-SG2016P / TL-SG2218 / TL-SG2218P / TL-SG2428P V5 / TL-SL2428P V6	
IPv6 Support	IPv6 Static Routing and ACL IPv6 Dual IPv4/IPv6 IPv6 Interface Multicast Listener Discovery (MLD) Snooping IPv6 neighbor discovery (ND) Path maximum transmission unit (MTU) discovery Internet Control Message Protocol (ICMP) version TCPv6/UDPv6 IPv6 applications DHCPv6 Client Ping6 Tracert6 Telnet(v6) IPv6 SNMP IPv6 SSH IPv6 SSL Http/Https	
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 SNTP System Log
MIBs	MIB II (RFC1213) Bridge MIB (RFC1493) P/Q-Bridge MIB (RFC2674) Radius Accounting Client MIB (RFC2620)	 Radius Authentication Client MIB (RFC2618) Remote Ping, Traceroute MIB (RFC2925) Support TP-Link private MIBs RMON MIB(RFC1757, rmon 1,2,3,9)

Ordering Information

Host Switch	
Model	Description
TL-SG2008 V4	JetStream 8-Port Gigabit Smart Switch
TL-SG2008P V3	JetStream 8-Port Gigabit Smart Switch with 4-Port PoE+
TL-SG2210P V5	JetStream 10-Port Gigabit Smart Switch with 8-Port PoE+
TL-SG2210MP V4	JetStream 10-Port Gigabit Smart Switch with 8-Port PoE+
TL-SG2016P	JetStream 16-Port Gigabit Smart Switch with 8-Port PoE+
TL-SG2218	JetStream 16-Port Gigabit Smart Switch with 2 SFP Slots
TL-SG2218P	JetStream 18-Port Gigabit Smart Switch with 16-Port PoE+
TL-SG2428P V5	JetStream 28-Port Gigabit Smart Switch with 24-Port PoE+
TL-SL2428P V6	JetStream 24-Port 10/100Mbps + 4-Port Gigabit Smart Switch with 24-Port PoE+

SFP Modules	
Model	Description
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 20km 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: 1550 nm/RX: 1310 nm, 20 km
TL-SM321A-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 2 km
TL-SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 20 km
TL-SM321B-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 2 km

MC Series Media Converter		
Model	Description	
MC210CS	Gigabit Single-Mode Media Converter, up to 20 km, chassis mountable	
MC200CM	Gigabit multi-mode SC SFP Transceiver, up to 550 m, chassis mountable	
MC200L	Gigabit SFP slot supporting mini-GBIC modules, chassis mountable	
TL-MC1400	14-slot power supply chassis for TP-LINK MC Series Media Converter, 19-inch rack-mountable	

RJ45 SFP Modules		
Model	Description	
TL-SM331T	1000BASE-T RJ45 SFP Module	

FC Series Media Converter		
Model	Description	
TL-FC111A-20	100Mbps Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable	
TL-FC111B-20	100Mbps Single-Mode WDM Media Converter, up to 20 km, TX:1310nm, RX:1550nm, chassis mountable	
TL-FC311A-2	Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1550nm, RX:1310nm, chassis mountable	
TL-FC311B-2	Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1310nm, RX:1550nm, chassis mountable	
TL-FC311A-20	Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable	
TL-FC311B-20	Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1310nm, RX:1550nm, chassis mountable	
TL-FC1400	14-slot power supply chassis for TP-LINK FC Series Media Converter, 19-inch rack-mountable	

