

JetStream

10-Gigabit L2+ Managed Switch Datasheet

MODELS: TL-SX3008F / TL-SX3016F / TL-SX3206HPP / TL-SG3210XHP-M2 V2 / TL-SG3428X-M2 / TL-SG3428XPP-M2 / TL-SG3428X V1.20 / TL-SG3428X-UPS / TL-SG3428XMP V3 / TL-SG3428XF / TL-SG3452X / TL-SG3452XP



Overview

TP-Link's JetStream L2+ managed switches provide high performance, powerful L2 and L2+ features like static routing, enterprise-level QoS, advanced security strategies and a bundle of ISP features. The 10-gigabit ports ensure high-speed data transfer, and their backward compatility with gigabit products reserves room for network upgrades, therefore guarantees stable and long-term usability. The IP-MAC-Port Binding (IMPB) 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. The OAM function helps facilitate network management. Moreover, the easy-to-use web management interfaces, along with CLI, SNMP and Dual Image mean faster setup and configuration with less downtime. TP-Link JetStream L2+ 10-gigabit managed switches provide a reliable, secure solution for enterprise, campus and ISP networks.

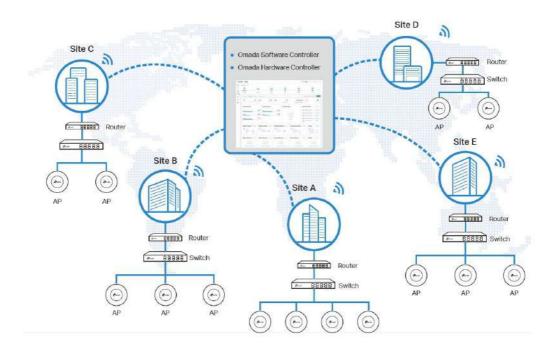


Omada Solution



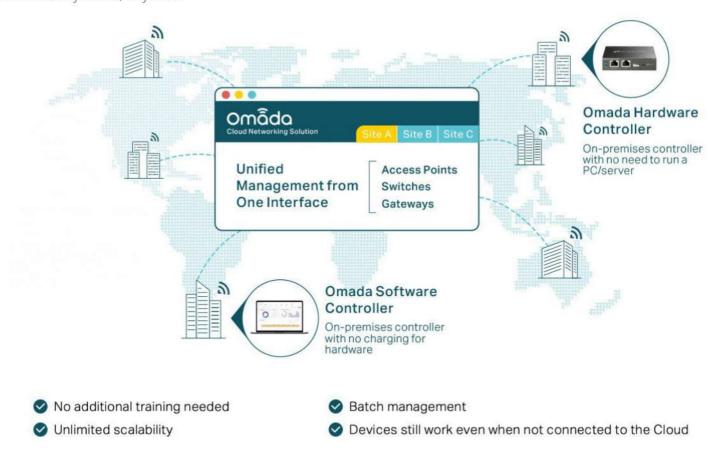
Software Defined Networking (SDN) with Cloud Access

Omada Software Defined Networking (SDN) platform integrates network devices, including access points, switches and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network—all controlled from a single interface. Seamless wireless and wired connections are provided, ideal for use in hospitality, education, retail, offices, and more.



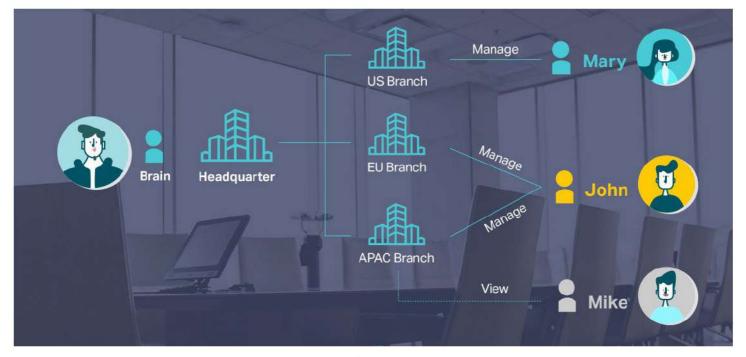
Hassle-Free Centralized Cloud Management

100% centralized cloud management of the whole network from different sites——all controlled from a single interface anywhere, anytime.



Assign Different Management Roles

Multi-user privilege assignment is available to increase management efficiency and security. Multi-person management, multi-level permissions, and the ability to add admins as needed, enable flexible network operation and maintenance.



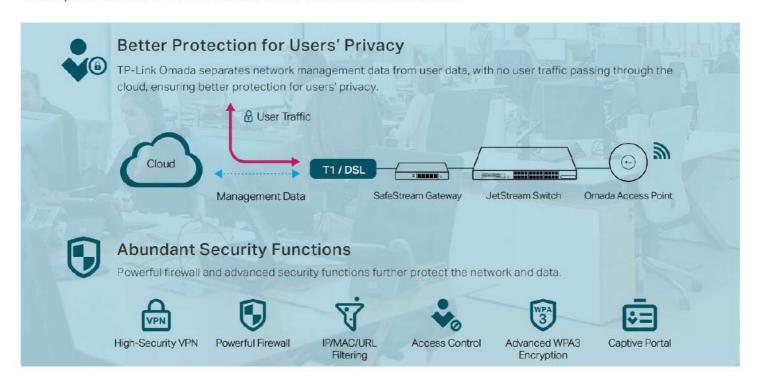


Easy and Intelligent Network Monitoring

The easy-to-use dashboard makes it easy to see your real-time network status; check network usage and traffic distribution; receive network condition logs, abnormal event warnings, and notifications; or even track key data for better business results. Network topology helps IP admins quickly see and troubleshoot connection at a glance.



Comprehensive Protection for the Whole Network



Switch Product Features

Networking Security

The L2+ managed 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/TACACS+ server to require some authentication information before access to the network is allowed.

Advanced QoS features

To integrate voice, data and video service on one traffic based on a variety of means including IP or MAC address, TCP or UDP port number, etc. to ensure that voice and video are always clear, smooth and jitter free. In conjunction with the Voice VLAN the switch supporting, the voice applications will operate with much smoother performance.

Abundant I 2+ features

The L2+ managed switches support a complete lineup of L2 features, including 802.1Q VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function. Any more, the switch provides advanced features for network maintenance. Such as Loopback Detection, Cable Diagnostics and IGMP Snooping. IGMP snooping ensures the switch intelligently forward the multicast stream only to the appropriate subscribers while IGMP throttling & filtering restrict each subscriber on a port level to prevent unauthorized multicast access. Moreover, L2+ managed switches support L2+ feature-static routing, which is a simple way to provide segmentation of the network with internal routing through the switch and helps network traffic for more efficient use.

ISP Features

The L2+ managed switches support a bundle of ISP features such as 802.3ah OAM, DDM, sFlow, QinQ, L2PT PPPoE ID Insertion, IGMP authentication etc. 802.3ah OAM and Device Link Detection Protocol (DLDP) functions improve monitor and troubleshoot Ethernet networks, help facilitate network management. DDM(Digital Diagnostic Monitoring) function helps view the status of SFP modules inserting to the Switch and to configure alarm settings, warning settings, temperature threshold settings, voltage threshold settings, bias current threshold settings, TX power threshold settings, and Rx power threshold settings.

Enterprise Level Management Features

TP-Link's new L2+ managed switches are easy to use and manage. It supports various user-friendly standard management features, such as intuitive web-based Graphical User Interface (GUI), industry-standard Command Line Interface (CLI), SNMP (v1/v2c/v3), and RMON. This allows the switch to provide valuable status information and send reports on abnormal events. It also supports Dual Image and Dual Configuration to provide improved reliability and network uptime.

IPv6 Support

The L2+ managed switches support 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 upgrading your network equipment.



Specifications

Product Picture		ен ≅ 1— Б. нининин	эн	
Model		TL-SX3008F	TL-SX3016F	
General	Interface	8 10GE SFP+ Slots	16 10GE SFP+ Slots	
	Console	1 RJ45 Console Port, 1 Micro-USB Console Port		
	Flash	32 MB		
	DRAM	256 MB		
	Port Standard	IEEE 802.3z: 1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3ae: 10 Gigabit Ethernet over fiber		
	Switching Capacity	160 Gbps	320 Gbps	
	Packet Forwarding Rate	119.04 Mpps	238.08 Mpps	
	MAC Address Table	32K		
	Packet Buffer	16 Mbit	24 Mbit	
Performance	Transmission Method	Store and Forward		
	Number of IP Interfaces	16		
	Number of Static Routers	48 (IPv4, IPv6)		
	Jumbo Frame	9 KB		
	Dual Redundant Power Supply		2 Fixed AC Power Supply	
	Power Supply	100-240 V AC~50/60 Hz		
	Max Power Consumption	15.46 W (220 V/50 Hz)	32.74 W (220 V/50 Hz)	
	Max Heat Dissipation	52.75 BTU/hr (220 V/50 Hz)	111.71 BTU/hr (220 V/50 Hz)	
Physical &	Standby Power Consumption	5.91 W (110 V/60 Hz)	13.33 W (110 V/60 Hz)	
Environment	Dimensions (W x D x H)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)	17.3 × 8.7 × 1.7 in (440 × 220 × 44 mm)	
	Fan Quantity	Fanless	1	
	Installation	Rack Mountable		
	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)		
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)		
	Operation Humidity	10% to 90% RH, non-condensing		
	Storage Humidity	5% to 90% RH, non-condensing		
	Certification	CE, FCC, RoHS		

Hardware F	eatures & Performar	nce		
Pro	oduct Picture			
	Model	TL-SX3206HPP	TL-SG3210XHP-M2 V2	
	Interface	4 100M/1000M/2.5G/5G/10Gbps RJ45 Ports 2 10GE SFP+ Slots	8 100/1000Mbps/2.5Gbps RJ45 Ports 2 10GE SFP+ Slots	
	Console	1 RJ45 Console Port, 1 Micro-USB Console Port		
	Flash	32 MB		
	DRAM	256 MB 128 MB		
General	Port Standard	IEEE 802.3u:100BASE-X Fast Ethernet IEEE 802.3ab:1000BASE-T Gigabit Ethernet IEEE 802.3bz: 2.5GBASE-T Ethernet IEEE 802.3an:10GBASE-T Ethernet IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3ae: 10 Gigabit Ethernet over fiber	IEEE 802.3u:100BASE-X Fast Ethernet IEEE 802.3ab:1000BASE-T Gigabit Ethernet IEEE 802.3bz:2.5GBASE-T Ethernet IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3ae: 10 Gigabit Ethernet over fiber	
	PoE Standard	802.3af/at/bt	802.3af/at	
PoE	PoE Ports	4, up to 60 W	8, up to 30 W	
	PoE Power Budget	200 W	240 W	
	Switching Capacity	120 Gbps	80 Gbps	
	Packet Forwarding Rate	89.28 Mpps	59.52 Mpps	
	Packet buffer	16 Mbit	12Mbit	
	MAC Address Table	32 K	16 K	
Performance	Transmission Method	Store and Forward		
	Number of IP Interfaces	16		
	Number of Static Routers	48 (IPv4, IPv6)		
	Jumbo Frame	9 KB		
	Power Supply	100-240 V AC~50/60 Hz		
	Max Power Consumption	244.90 W (110V/60Hz) (with 200 W PD connected)	292.0 W (110V/60Hz) (with 240 W PD connected)	
Physical &	Max Heat Dissipation	835.67 BTU/hr (110 V/60 Hz) (with 200 W PD connected)	996.35 BTU/hr (110 V/60 Hz) (with 240 W PD connected)	
	Standby Power Consumption	13.52 W (110 V/60 Hz)	17.6 W (110V/60 Hz)	
	Dimensions (W x D x H)	11.6×7.1×1.7 in (294×180×44 mm)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)	
Environmet	Fan Quantity	2		
	Installation	Rack Mountable / Desktop	Rack Mountable	
	Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)		
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)		
	Operation Humidity	10% to 90% RH, non-condensing		
	Storage Humidity	5% to 90% RH, non-condensing		
	Certification	CE, FCC, RoHS		

Hardware F	eatures & Performan	ice		
Pro	oduct Picture	C. T.	*: HHHHHH unus	
Model		TL-SG3428X-M2	TL-SG3428XPP-M2	
	Interface	24 10/100/1000Mbps/2.5Gbps RJ45 Ports 4 10GE SFP+ Slots		
	Console	1 RJ45 Console Port, 1 Micro-USB Console Port		
	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 802.3bz:2.5GBASE-T Ethernet IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3ae: 10 Gigabit Ethernet over fiber		
	PoE Standard	E.)	802.3af/at/bt	
PoE	PoE Ports	-	8 802.3bt ports, up to 60 W 16 802.3at ports, up to 30 W	
	PoE Power Budget	=	500 W	
	Switching Capacity	200 Gbps		
	Packet Forwarding Rate	148,80 Mpps		
	MAC Address Table	32K		
	Transmission Method	Store and Forward		
Performance	Packet Buffer	16 Mbit		
	Number of IP Interfaces	32		
	Number of Static Routers	48 (IPv4, IPv6)		
	Jumbo Frame	9 KB		
	Power Supply	100-240 V AC~50/60 Hz		
	Max Power Consumption	45.1 W (110V/60Hz)	629.1 W (110V/60Hz)	
	Max Heat Dissipation	154.38 BTU/hr (110 V/60 Hz)	2153.45 BTU/hr (110 V/60 Hz)	
	Standby Power Consumption	19.0 W (110V/60Hz)	24.2 W (110V/60Hz)	
DI110	Dimensions (W x D x H)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)	
Physical & Environmet	Fan Quantity	1	3	
	Installation	Rack Mountable		
	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)		
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)		
	Operation Humidity	10% to 90% RH, non-condensing		
	Storage Humidity	5% to 90% RH, non-condensing		
	Certification	CE, FCC, RoHS		



Pro	oduct Picture	·		
	Model	TL-SG3428X V1.20	TL-SG3428X-UPS	
	Interface	24 1 0/100/1000Mbps RJ45 Ports 4 10GE SFP+ Slots		
	Console	1 RJ45 Console Port, 1 Micro-USB Console Port		
	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) IEEE 802.3ae: 10 Gigabit Ethernet over fiber		
	PoE Standard	20		
PoE	PoE Ports	图)		
	PoE Power Budget	g)		
	Switching Capacity	128 Gbps		
	Packet Forwarding Rate	95.23 Mpps		
	MAC Address Table	16K		
	Transmission Method	Store and Forward		
Performance	Packet Buffer	12 Mbit		
	Number of IP Interfaces	16		
	Number of Static Routers	48 (IPv4, IPv6)		
	Jumbo Frame	9 KB		
	Power Supply	100-240 V AC~50/60 Hz	100-240 V AC~50/60 Hz and 12V lead- acid battery	
	Max Power Consumption	23.6 W (110W60Hz)	31.9 W (110V/60Hz) (AC powered with 12V battery charging) 24.0 W (110V/60Hz) (AC powered without 12V battery charging) 20.0 W (12V battery powered)	
	Max Heat Dissipation	80.52 BTU/hr (110 V/60 Hz)	108.84 BTU/hr (110V/60Hz) (AC powered with 12V battery charging) 81.88 BTU/hr (110V/60Hz) (AC powered without 12V battery charging) 68.24 BTU/hr (12V battery powered)	
Physical & Environmet	Standby Power Consumption	8.67 W (110 V/60 Hz)	16.4 W (110V/60Hz) (AC powered with 12V battery charging) 10.0 W (110V/60Hz) (AC powered withou 12V battery charging) 8.3 W (12V battery powered)	
	Dimensions (W x D x H)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)		
	Fan Quantity	Fanless		
	Installation	Rack Mountable		
	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)		
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)		
	Operation Humidity	10% to 90% RH, non-condensing		
	Storage Humidity	5% to 90% RH, non-condensing		
	Certification	CE, FCC, RoHS		



Hardware F	eatures & Performar	ice		
Pro	oduct Picture			
Model		TL-SG3428XMP V3	TL-SG3428XF	
	Interface	24 10/100/1000Mbps RJ45 Ports 4 10GE SFP+ Slots	20 Gigabit SFP Slots 4 Gigabit RJ45/SFP Combo Ports 4 10GE SFP+ Slots	
	Console	1 RJ45 Console Port, 1 Micro-USB Console Port		
	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) IEEE 802.3ae: 10 Gigabit Ethernet over fiber		
	PoE Standard	802.3af/at	-	
PoE	PoE Ports	24, up to 30W	=	
	PoE Power Budget	384 W	-	
	Switching Capacity	128 Gbps		
	Packet Forwarding Rate	95.23 Mpps		
	MAC Address Table	16K		
	Transmission Method	Store and Forward		
Performance	Packet Buffer	12 Mbit		
	Number of IP Interfaces	16		
	Number of Static Routers	48 (IPv4, IPv6)		
	Jumbo Frame	9 KB		
	Power Supply	100-240 V AC~50/60 Hz		
	Max Power Consumption	486.2 W (110W60Hz) (with 384 W PD connected)	35.7 W (110V/60Hz)	
	Max Heat Dissipation	1658.78 BTU/hr (110 V/60 Hz) (with 384 W PD connected)	121.81 BTU/hr (110 V/60 Hz)	
	Standby Power Consumption	17.6 W (110V/60 Hz)		
Physical &	Dimensions (W x D x H)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)	17.3 × 8.7 × 1.7 in (440 × 220 × 44 mm)	
Environmet	Fan Quantity	2	1	
	Installation	Rack Mountable		
	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)		
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)		
	Operation Humidity	10% to 90% RH, non-condensing		
	Storage Humidity	5% to 90% RH, non-condensing		
	Certification	CE, FCC, RoHS		

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Pro	oduct Picture		E HIRIHIRIHI	
	Model	TL-SG3452X	TL-SG3452XP	
	Interface	48 10/100/1000Mbps RJ45 Ports 4 10GE SFP+ Slots		
	Console	1 RJ45 Console Port, 1 Micro-USB Console Port		
	Flash	32 MB		
General	DRAM	512 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) IEEE 802.3ae: 10 Gigabit Ethernet over fiber		
	PoE Standard	EX.	802.3af/at	
PoE	PoE Ports	-0	48, up to 30 W	
	PoE Power Budget	e)	500 W	
	Switching Capacity	176 Gbps		
	Packet Forwarding Rate	130.94 Mpps		
	MAC Address Table	16 K		
	Transmission Method	Store and Forward		
Performance	Packet Buffer	12 Mbit		
	Number of IP Interfaces	16		
	Number of Static Routers	48 (IPv4, IPv6)		
	Jumbo Frame	9 KB		
	Power Supply	100-240 V AC~50/60 Hz		
	Max Power Consumption	32.72 W (110V/60Hz)	49.19 W (110W60Hz) (no PD connected) 635.70 W (110W60Hz) (with 500 W PD connected)	
	Max Heat Dissipation	111.65 BTU/hr (110 V/60 Hz)	167.85 BTU/hr (110 V/60 Hz) (no PD connected) 2169.2 BTU/hr (110 V/60 Hz) (with 500 W PD connected)	
	Standby Power Consumption	13.38 W (110 V/60 HZ)	28.61 W (110 V/60 Hz)	
Physical & Environmet	Dimensions (W x D x H)	17.3 × 8.7 × 1.7 in (440 × 220 × 44 mm)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm	
	Fan Quantity	20	3	
	Installation	Rack Mountable		
	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)	0 °C to 40 °C (32 °F to 104 °F)	
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)		
	Operation Humidity	10% to 90% RH, non-condensing		
	Storage Humidity	5% to 90% RH, non-condensing		
	Certification	CE, FCC, RoHS		

Software Features	5	
Model	TL-SG3428XPP-M2 / TL-SG3428X V1.20 / TL-SG	P / TL-SG3210XHP-M2 V2 / TL-SG3428X-M2 / G3428X-UPS / TL-SG3428XMP V3 / TL-SG3428XF / / TL-SG3452XP
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
L3 Features	16 IPv4/IPv6 Interfaces (32 IPv4/IPv6 Interfaces for TL-SG3428X-M2 &TL-SG3428XPP-M2) Static Routing -48 static routes Static ARP -128 static entries 512 ARP Entries	 Proxy ARP Gratuitous ARP DHCP Server DHCP Relay DHCP interface relay DHCP VLAN relay DHCP L2 Relay
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, BPDU Protect, Root Protect, Loop Protect	 Loopback Detection Port based VLAN based Flow Control 802.3x Flow Control HOL Blocking Prevention Mirroring Port Mirroring CPU Mirroring One-to-One Many-to-One Tx/Rx/Both
L2 Multicast	Supports 1000 (IPv4, IPv6) IGMP groups (511 groups for TL-SG3428X-M2 & TL-SG3428XPP-M2) IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - IGMP Authentication IGMP Authentication MVR	 MLD Snooping MLD v1/v2 Snooping Fast Leave MLD Snooping Querier Static Group Config Limited IP Multicast Multicast Filtering: 256 profiles and 16 entries per profile
VLAN	VLAN Group (802.1q VLAN) - Max 4K VLAN Groups 802.1Q Tagged VLAN MAC VLAN entries: 30 (10 for TL-SG3210XHP-M2 and 256 for TL-SG3428X-M2 & TL-SG3428XPP-M2) Protocol VLAN: Protocol Template 16, Protocol VLAN 16 (Protocol Template 16 and Protocol VLAN 12 for TL-SX3008F and TL-SX3016F)	 Private VLAN (except for TL-SG3428X-M2 & TL-SG3428XPP-M2) GVRP VLAN VPN VLAN Mapping VLAN Replace Voice VLAN
QoS	8 priority queues 802.1p CoS/DSCP priority Queue scheduling - SP (Strict Priority) - WRR (Weighted Round Robin) - SP+WRR	 Bandwidth Control Port/Flow based Rating Limiting Smoother Performance Action for Flows QoS remark (802.1P Remark, DSCP Remark)



		HPP / TL-SG3210XHP-M2 V2 / TL-SG3428X-M2 /	
Model	TL-SG3428XPP-M2 / TL-SG3428X V1.20 / TL-SG3428X-UPS / TL-SG3428XMP V3 / TL-SG3428XF /		
	TL-SG345	2X / TL-SG3452XP	
ACL	MAC ACL Source MAC Destination MAC VLAN ID User Priority Ether Type IP ACL Source IP	- TCP/UDP Port - DSCP/IP TOS • Combined ACL • IPv6 ACL • Policy - Mirroring - Redirect - Rate Limit	
	- Destination IP - Fragment - IP Protocol - TCP Flag	QoS RemarkACL apply to Port/VLANTime-based ACL	
Security	IP-MAC-Port Binding -512 Entries - DHCP Snooping - ARP Inspection - IPv4 Source Guard IPv6-MAC -Port Binding -512 Entries - DHCPv6 Snooping - ND Detection - ND Snooping - IPv6 Source Guard DOS Defend DHCP Filter Static/Dynamic Port Security - Up to 64 MAC addresses per port Broadcast/Multicast/Unknown-unicast Storm Control - kbps/ratio/pps control mode	 802.1X Port base authentication Mac base authentication VLAN Assignment MAB Guest VLAN Support RADIUS authentication and accountability AAA (including TACACS+) 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 	
ISP Features	802.3ah Ethernet Link OAM L2PT (Layer 2 Protocol Tunneling) PPPoE ID Insertion ERPS	 Device Link Detect Protocol (DLDP) sFlow (except for TL-SG3428X-M2 & TL-SG3428XPP-M2) DDM 	
Management	Web-based GUI Command Line Interface (CLI) through consoleport, telnet SNMPv1/v2c/v3 Trap/Inform RMON (1, 2, 3, 9 groups) SDM Template DHCP/BOOTP Client 802.1ab LLDP/LLDP-MED	 DHCP Auto Install Dual Image, Dual Configuration CPU Monitoring Cable Diagnostics EEE* Password Recovery SNTP System Log 	

^{*}TL-SX3008F and TL-SX3016F do not support this feature.

Model	TL-SX3008F / TL-SX3016F / TL-SX3206HPP / TL-SG3210XHP-M2 V2 / TL-SG3428X-FTL-SG3428XPP-M2 / TL-SG3428X V1.20 / TL-SG3428X-UPS / TL-SG3428XMP V3 / TL-SG3428X-UPS / TL-SG3	
	TL-SG3452X /	TL-SG3452XP
IPv6 Support	IPv6 Dual IPv4/IPv6 Multicast Listener Discovery (MLD) Snooping IPv6 ACL IPv6 Interface Static IPv6 Routing 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 MIB

Ordering Information

Model	Description
TL-SX3008F	JetStream 8-Port 10GE SFP+ L2+ Managed Switch
TL-SX3016F	JetStream 16-Port 10GE SFP+ L2+ Managed Switch
TL-SX3206HPP	JetStream 6-Port 10GE L2+ Managed Switch with 4-Port PoE++
TL-SG3210XHP-M2 V2	JetStream 8-Port 2.5GBASE-T and 2-Port 10GE SFP+ L2+ Managed Switch with 8-Port PoE+
TL-SG3428X-M2	JetStream 24-Port 2.5GBASE-T L2+ Managed Switch with 4 10GE SFP+ Slots
TL-SG3428XPP-M2	JetStream 24-Port 2.5GBASE-T and 4-Port 10GE SFP+ L2+ Managed Switch with 16-Port PoE+ & 8-Port PoE+
TL-SG3428X V1.20	JetStream 24-Port Gigabit L2+ Managed Switch with 4 10GE SFP+ Slots
TL-SG3428X-UPS	JetStream 24-Port Gigabit L2+ Managed Switch with 4 10GE SFP+ Slots and UPS Power Supply
TL-SG3428XMP V3	JetStream 24-Port Gigabit and 4-Port 10GE SFP+ L2+ Managed Switch with 24-Port PoE+
TL-SG3428XF	JetStream 24-Port SFP L2+ Managed Switch with 4 10GE SFP+ Slots
TL-SG3452X	JetStream 48-Port Gigabit L2+ Managed Switch with 4 10GE SFP+ Slots
TI -SG3452XP	JetStream 48-Port Gigabit and 4-Port 10GE SFP+ L2+ Managed Switch with 48-Port PoE+

SFP/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	
TL-SM5110-LR	10GBase-LR SFP+ LC Transceiver, single-mode, LC connector, 1310nm, 10 km	
TL-SM5110-SR	10GBase-SR SFP+ LC Transceiver, multi-mode, LC connector, 850nm, 300 m	

RJ45 SFP/SFP+ Modules		
Model	Description	
TL-SM331T	1000BASE-T RJ45 SFP Module	
TL-SM5310-T	10GBASE-T RJ45 SFP+ Module	

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

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

Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: www. tp-link.com.

PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.

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