

10-Gigabit L2+ Managed Switch Datasheet

MODELS: SG3210X-M2 / SG3210XHP-M2 V3 / SG3218XP-M2 / SG3428X V1.30 / SG3428XF V1.20 / SG3428XMP V3.20 / SG3428X-M2 V1.20 / SG3428XPP-M2 V1.20 / SG3452X V1.20 / SG3452XP V2.20 / SX3206HPP V1.20 / SX3008F V1.20 / SX3016F V1.20



Overview

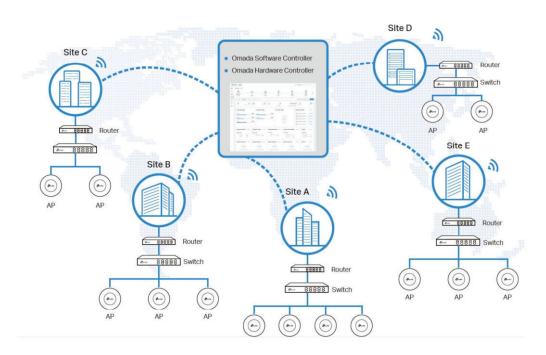
TP-Link | Omada L2+ managed switches provide high performance, powerful L2 and L2+ features like static routing, enterprise-level QoS, advanced security strategies and a bundle of ISP features. The 10-gigabit ports ensure high-speed data transfer, and their backward compatility with gigabit products 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 | Omada L2+ 10-gigabit managed switches provide a reliable, secure solution for enterprise, campus and ISP networks.

Omada Solution



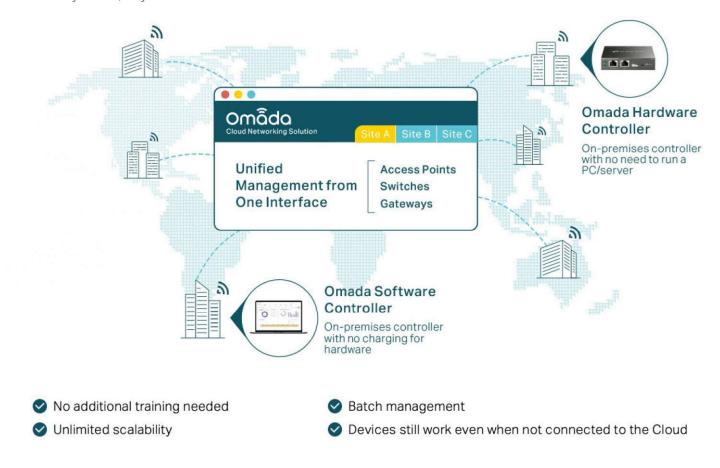
Software Defined Networking (SDN) with Cloud Access

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.



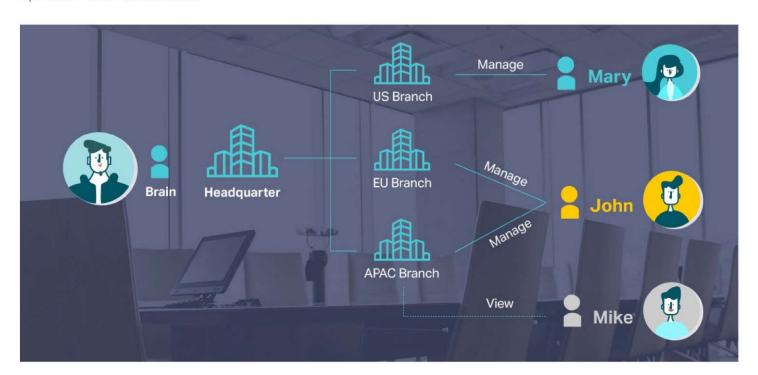
Hassle-Free Centralized Cloud Management

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.

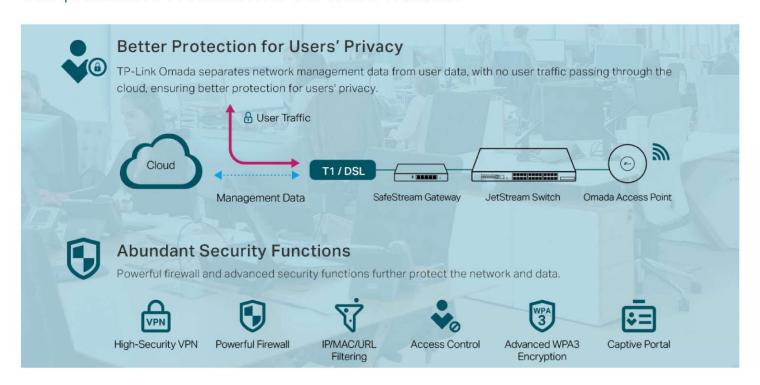


Easy and Intelligent Network Monitoring

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 TP-Link | Omada 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 L2+ 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 Omada 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

Hardware Features & Performance				
Pro	oduct Picture	Protestandos	Controls When the second to t	
	Model	SG3210X-M2	SG3210XHP-M2 V3	
	Interface	8 100/1000Mbps/2.5Gbps RJ45 Ports 2 10GE SFP+ Slots		
	Console	1 RJ45 Console Port, 1 Micro-USB Console Port		
	Flash	32 MB		
General	DRAM	256 MB		
	Port Standard	IEEE 802.3u:100BASE-X Fast Ethernet IEEE 802.3ab:1000BASE-T Gigabit Ethernet IEEE 802.3bz:2.5GBASE-T Ethernet IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3ae: 10 Gigabit Ethernet over fiber		
	PoE Standard	.5	802.3af/at	
PoE	PoE Ports	-	8, up to 30 W	
	PoE Power Budget	±	240 W	
	Switching Capacity	80 Gbps		
	Packet Forwarding Rate	59.52 Mpps		
	MAC Address Table	16K		
	Packet Buffer	12 Mbit		
Performance	Transmission Method	Store and Forward		
	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	15.0 W	285.9 W (110V/60Hz) (with 240 W PD connected)	
Physical & Environment	Max Heat Dissipation	51.18 BTU/hr	975.54 BTU/hr (110V/60Hz) (with 240 W PD connected)	
	Standby Power Consumption	7.8 W	15.6 W	
	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)	
	Fan Quantity	Fanless	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 Features & Performance			
Pro	oduct Picture	Potentia : Maria : The Company	
	Model	SG3218XP-M2	
	Interface	16 10/100/1000Mbps/2.5Gbps RJ45 Ports 2 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	802.3af/at	
PoE	PoE Ports	8, up to 30 W	
	PoE Power Budget	240 W	
	Switching Capacity	120 Gbps	
	Packet Forwarding Rate	89.28 Mpps	
	MAC Address Table	16K	
	Packet Buffer	12 Mbit	
Performance	Transmission Method	Store and Forward	
	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	299.4 W (110V/60Hz) (with 240 W PD connected)	
	Max Heat Dissipation	1021.64 BTU/hr (110V/60Hz) (with 240 W PD connected)	
	Standby Power Consumption	15.6 W	
	Dimensions (W x D x H)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)	
	Fan Quantity	2	
	Installation	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	

Product Picture				C HHAIRIM AND		
Model		SG3428X V1.30	SG3428XF V1.20	SG3428XMP V3.20		
	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	24 10/100/1000Mbps 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	-		802.3af/at		
PoE	PoE Ports			24, up to 30W		
	PoE Power Budget	-		384 W		
	Switching Capacity	128 Gbps		1		
	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	16			
	Number of Static Routers	48 (IPv4, IPv6)				
	Jumbo Frame	9 KB				
	Power Supply	100-240 V AC~50/60 Hz				
	Redundant Power Supply	-	Yes	-		
	Max Power Consumption	23.6 W (110V/60Hz)	35.7 W (110V/60Hz)	486.2 W (110V/60Hz) (with 384 W PD connected)		
	Max Heat Dissipation	80.52 BTU/hr (110 V/60 Hz)	121.81 BTU/hr (110 V/60 Hz)	1658.78 BTU/hr (110 V/60 Hz) (with 384 W PD connected)		
Physical & Environmet	Standby Power Consumption	8.67 W (110 V/60 Hz)	17.6 W (110V/60 Hz)			
2	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)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)		
	Fan Quantity	0	1	2		
	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-cond	ensing			
	Storage Humidity	5% to 90% RH, non-condensing				
	Certification	CE, FCC, RoHS				

Product Picture		GHHHHHH MAN	· · · · · · · · · · · · · · · · · · ·	
	Model	SG3428X-M2 V1.20	SG3428XPP-M2 V1.20	
	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	-	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	н	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)	
Physical &	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)	
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		

Product Picture				
Model		SG3452X V1.20	SG3452XP V2.20	
	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	-	802.3af/at	
PoE	PoE Ports	-	48, up to 30 W	
	PoE Power Budget	-	500 W	
	Switching Capacity	176 Gbps	1	
	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 (110V/60Hz) (no PD connected) 635.70 W (110V/60Hz) (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)	
LIVIIOTITICE	Fan Quantity	-	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		

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Model		SX3206HPP V1.20	SX3008F V1.20	SX3016F V1.20	
	Interface	4 100M/1000M/2.5G /5G/10Gbps RJ45 Ports 2 10GE SFP+ Slots	8 10GE SFP+ Slots	16 10GE SFP+ Slots	
	Console	1 RJ45 Console Port, 1 Micro-USB Console Port			
	Flash	32 MB			
	DRAM	256 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 802.3z: 1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3ae: 10 Gigabit Ethernet over fiber		
	PoE Standard	802.3af/at/bt	-		
PoE	PoE Ports	4, up to 60 W	-		
	PoE Power Budget	200 W	-		
	Switching Capacity	120 Gbps	160 Gbps	320 Gbps	
	Packet Forwarding Rate	89.28 Mpps	119.04 Mpps	238.08 Mpps	
	Packet buffer	16 Mbit		24 Mbit	
	MAC Address Table	32 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			
	Redundant Power Supply	-		Yes	
	Max Power Consumption	244.90 W (110V/60Hz) (with 200 W PD connected)	15.46 W (220 V/50 Hz)	32.74 W (220 V/50 Hz)	
	Max Heat Dissipation	835.67 BTU/hr (110 V/60 Hz) (with 200 W PD connected)	52.75 BTU/hr (220 V/50 Hz)	111.71 BTU/hr (220 V/50 Hz)	
	Standby Power Consumption	13.52 W (110 V/60 Hz)	5.91 W (110 V/60 Hz)	13.33 W (110 V/60 Hz)	
Physical & Environmet	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)	17.3 × 8.7 × 1.7 in (440 × 220 × 44 mm)	
	Fan Quantity	2	0	1	
	Installation	Rack Mountable / Desktop	Rack Mountable	_	
	Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)		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		sing			

Software Features	5	
Model	SG3210X-M2 / SG3210XHP-M2 V3 / SG3218XP-M2 V3.20 / SG3428X-M2 V1.20 / SG3428XPP-M2 V1.20 V1.20 / SX3008F V1.)/SG3452X V1.20/SG3452XP V2.20/SX3206HPP
SDN Support	 Support Omada Hardware 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 SG3210X-M2 & SG3210XHP-M2 & SG3218XP-M2 & SG3428X-M2 & 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 SG3210X-M2 & SG3210XHP-M2 & SG3218XP-M2 & SG3428X-M2 V1.20 & 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 (256 for SG3210X-M2 & SG3210XHP-M2 & SG3218XP-M2 & SG3428XPP-M2) 	Protocol VLAN: Protocol Template 16, Protocol VLAN 16 (Protocol Template 16 and Protocol VLAN 12 for SX3008F and SX3016F) 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)

	SG3210X-M2 / SG3210XHP-M2 V3 / SG3218XP-	M2 / SG3428X V1.30 / SG3428XF V1.20 / SG3428X	
Model	V3.20 / SG3428X-M2 V1.20 / SG3428XPP-M2 V1.20 / SG3452X V1.20 / SG3452XP V2		
	V1.20 / SX3008F	V1.20 / SX3016F V1.20	
ACL	MAC ACL Source MAC Destination MAC VLAN ID User Priority Ether Type IP ACL Source IP Destination IP	- TCP/UDP Port - DSCP/IP TOS • Combined ACL • IPv6 ACL • Policy - Mirroring - Redirect - Rate Limit - QoS Remark	
	- Fragment - IP Protocol - TCP Flag	ACL 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 OAML2PT (Layer 2 Protocol Tunneling)PPPoE ID InsertionERPS	 Device Link Detect Protocol (DLDP) sFlow (except for SG3428X-M2 & 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 	

Software Feature	S	
Model	SG3210X-M2 / SG3210XHP-M2 V3 / SG3218XP-M2 / SG3428X V1.30 / SG3428XF V1.20 / SG3428XMP V3.20 / SG3428X-M2 V1.20 / SG3428XPP-M2 V1.20 / SG3452X V1.20 / SG3452XP V2.20 / SX3206HPP V1.20 / SX3008F V1.20 / SX3016F V1.20	
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

Host Switch	
Model	Description
SG3210X-M2	Omada 8-Port 2.5GBASE-T L2+ Managed Switch with 2 10GE SFP+ Slots
SG3210XHP-M2 V3	Omada 8-Port 2.5GBASE-T and 2-Port 10GE SFP+ L2+ Managed Switch with 8-Port PoE+
SG3218XP-M2	Omada 16-Port 2.5GBASE-T and 2-Port 10GE SFP+ L2+ Managed Switch with 8-Port PoE+
SG3428X V1.30	Omada 24-Port Gigabit L2+ Managed Switch with 4 10GE SFP+ Slots
SG3428XF V1.20	Omada 24-Port SFP L2+ Managed Switch with 4 10GE SFP+ Slots
SG3428XMP V3.20	Omada 24-Port Gigabit and 4-Port 10GE SFP+ L2+ Managed Switch with 24-Port PoE+
SG3428X-M2 V1.20	Omada 24-Port 2.5GBASE-T L2+ Managed Switch with 4 10GE SFP+ Slots
SG3428XPP-M2 V1.20	Omada 24-Port 2.5GBASE-T and 4-Port 10GE SFP+ L2+ Managed Switch with 16-Port PoE+ & 8-Port PoE++
SG3452X V1.20	Omada 48-Port Gigabit L2+ Managed Switch with 4 10GE SFP+ Slots
SG3452XP V2.20	Omada 48-Port Gigabit and 4-Port 10GE SFP+ L2+ Managed Switch with 48-Port PoE+
SX3206HPP V1.20	Omada 6-Port 10GE L2+ Managed Switch with 4-Port PoE++
SX3008F V1.20	Omada 8-Port 10GE SFP+ L2+ Managed Switch
SX3016F V1.20	Omada 16-Port 10GE SFP+ L2+ Managed Switch

SFP/SFP+ Modules		
Model	Description	
SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 20km distance	
SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550m distance	
SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 20 km	
SM321A-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 2 km	
SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 20 km	
SM321B-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 2 km	
SM5110-LR	10GBase-LR SFP+ LC Transceiver, single-mode, LC connector, 1310nm, 10 km	
SM5110-SR	10GBase-SR SFP+ LC Transceiver, multi-mode, LC connector, 850nm, 300 m	

RJ45 SFP/SFP+ Modules		
Model	Description	
SM331T	1000BASE-T RJ45 SFP Module	
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
MC1400	14-slot power supply chassis for TP-LINK MC Series Media Converter, 19-inch rack-mountable

FC Series Media Converter	
Model	Description
FC111A-20	100Mbps Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable
FC111B-20	100Mbps Single-Mode WDM Media Converter, up to 20 km, TX:1310nm, RX:1550nm, chassis mountable
FC311A-2	Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1550nm, RX:1310nm, chassis mountable
FC311B-2	Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1310nm, RX:1550nm, chassis mountable
FC311A-20	Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable
FC311B-20	Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1310nm, RX:1550nm, chassis mountable
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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