

Specifications

Hardware Features & Performance

Product Picture			
Model		TL-SG2210MP	TL-SG2428P
General	Interface	8 10/100/1000Mbps RJ45 Ports 2 Gigabit SFP Slots	24 10/100/1000Mbps RJ45 ports 4 Gigabit SFP Slots
PoE	PoE Standard	802.3af/at	
	PoE Ports	8, up to 30W	24, up to 30W
	PoE Power Budget	150 W	250 W
Performance	Switching Capacity	20 Gbps	56 Gbps
	Packet Forwarding Rtae	14.88 Mpps	41.7 Mpps
	MAC Address Table	8K	
	Packet Buffer	4.1 Mbit	
	Number of IP Interfaces	1	16
	Number of Static Routers	0	32 (IPv4,, IPv6)
	Jumbo Frame	9 KB	
Physical & Environmet	Power Supply	100-240V AC, 50/60Hz	
	Max Power Consumption	12.2 W (110 V/60 Hz)(no PD connected) 173.9 W (110 V/60 Hz) (with 150 W PD connected)	32.1 W (110 V/60 Hz)(no PD connected) 308.6 W (110 V/60 Hz) (with 250 W PD connected)
	Max Heat Dissipation	41.63 BTU/h (no PD connected) 539.35 (with 150 W PD connected)	109.53 BTU/h (no PD connected) 1052.94 (with 250 W PD connected)
	Dimensions (W x D x H)	11.6 x 7.1 x 1.7 in (294 x 180 x 44 mm)	17.3 x 8.7 x 1.73 in (440 x 220 x 44 mm)
	Fan Quantity	1	2
	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	

Software Features

Product Picture		
Model	TL-SG2210MP	TL-SG2428P
SDN Support	<ul style="list-style-type: none"> • Automatic Device Discovery • Batch Configuration • Batch Firmware Upgrading • Intelligent Network Monitoring • Abnormal Event Warnings • Unified Configuration • Reboot Schedule • Captive Portal Configuration 	
L2+ Features	--	<ul style="list-style-type: none"> • 16 IP Interfaces <ul style="list-style-type: none"> - Support IPv4/IPv6 Interface • Static Routing <ul style="list-style-type: none"> - 32 IPv4/IPv6 Static Routes • DHCP Server • DHCP Relay <ul style="list-style-type: none"> - DHCP Interface Relay - DHCP VLAN Relay • DHCP L2 Relay • Static ARP • Proxy ARP • Gratuitous ARP
L2 Features	<ul style="list-style-type: none"> • Link Aggregation <ul style="list-style-type: none"> - Static link aggregation - Up to 8 aggregation groups and up to 8 ports per group - 802.3ad LACP • Spanning Tree Protocol <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 802.3x Flow Control • Mirroring <ul style="list-style-type: none"> - Port Mirroring - One-to-One - Many-to-One - Flow-Based - Ingress/Egress/Both - CPU Mirroring • Device Link Detect Protocol (DLDP) 	<ul style="list-style-type: none"> • Link Aggregation <ul style="list-style-type: none"> - static link aggregation - 802.3ad LACP - Up to 8 aggregation groups and up to 8 ports per group • Spanning Tree Protocol <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 802.3x Flow Control - HOL Blocking Prevention • Mirroring <ul style="list-style-type: none"> - Port Mirroring - CPU Mirroring - One-to-One - Many-to-One - Flow-Based - Ingress/Egress/Both • Device Link Detect Protocol (DLDP)

L2 Multicast	<ul style="list-style-type: none"> • 512 IPv4, IPv6 shared multicast groups • IGMP Snooping <ul style="list-style-type: none"> - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - IGMP Authentication - Static Group Config • MLD Snooping <ul style="list-style-type: none"> - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Static Group Config • Multicast VLAN Registration • Multicast Filtering 	<ul style="list-style-type: none"> • 512 IPv4,IPv6 shared multicast groups • IGMP Snooping <ul style="list-style-type: none"> - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - Static Group Config • MLD Snooping <ul style="list-style-type: none"> - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Static Group Config • Limited IP Multicast (256 profiles and 16 entries per profile) • Multicast VLAN Registration (MVR) • Multicast Filtering
VLAN	<ul style="list-style-type: none"> • VLAN Group <ul style="list-style-type: none"> - Max. 4K VLAN Groups • 802.1Q tag VLAN • MAC VLAN • Protocol VLAN • GVRP • Voice VLAN 	<ul style="list-style-type: none"> • VLAN Group <ul style="list-style-type: none"> - Max. 4K VLAN Groups • 802.1Q VLAN • MAC VLAN • Protocol VLAN • GVRP • Voice VLAN
QoS	<ul style="list-style-type: none"> • 802.1p CoS/DSCP priority • 8 priority queues • Priority Schedule Mode <ul style="list-style-type: none"> - SP (Strict Priority) - WRR (Weighted Round Robin) • Queue Weight Config • Bandwidth Control <ul style="list-style-type: none"> - Port/Flow based Rating Limit • Smoother Performance • Actions for flows <ul style="list-style-type: none"> - Mirror (to supported interface) - Redirect (to supported interface) - Rate Limit - QoS Remark • Storm Control <ul style="list-style-type: none"> - Multiple Control Modes(kbps/ratio/pps) - Broadcast/Multicast/Unknown-Unicast Control 	<ul style="list-style-type: none"> • 8 priority queues • 802.1p/DSCP priority • Priority Schedule Mode <ul style="list-style-type: none"> - SP (Strict Priority) - WRR (Weighted Round Robin) • Queue Weight Config • Bandwidth Control <ul style="list-style-type: none"> - Port/Flow based Rating Limiting • Smoother Performance • Actions for flows <ul style="list-style-type: none"> - Mirror (to supported interface) - Redirect (to supported interface) - Rate Limit - QoS Remark • Storm Control <ul style="list-style-type: none"> - Multiple Control Modes (kbps/ratio/pps) - Broadcast/Multicast/Unknown-Unicast Control

<p style="text-align: center;">ACL</p>	<ul style="list-style-type: none"> • Support up to 230 entries • Time-Range <ul style="list-style-type: none"> - Time Slice - Week Time-Range - Absolute Time-Range - Holiday • Time-based ACL • MAC ACL <ul style="list-style-type: none"> - Source MAC - Destination MAC - VLAN ID - User Priority - Ether Type • IP ACL <ul style="list-style-type: none"> - Source IP - Destination IP - IP Protocol - TCP Flag - TCP/UDP Source Port - TCP/UDP Destination Port - DSCP/IP TOS • IPv6 ACL • Combined ACL • Rule Operation <ul style="list-style-type: none"> - Permit/Deny • Policy Action <ul style="list-style-type: none"> - Mirror - Rate Limit - Redirect - QoS Remark • ACL Rules Binding <ul style="list-style-type: none"> - Port Binding - VLAN Binding 	<ul style="list-style-type: none"> • Support up to 230 entries • Time-Range <ul style="list-style-type: none"> - Time Slice - Week Time-Range - Absolute Time-Range - Holiday • Time-based ACL • MAC ACL <ul style="list-style-type: none"> - Source MAC - Destination MAC - VLAN ID - User Priority - Ether Type • IP ACL <ul style="list-style-type: none"> - Source IP - Destination IP - Fragment - IP Protocol - TCP Flag - TCP/UDP Source Port - TCP/UDP Destination Port - DSCP/IP TOS - User Priority • IPv6 ACL • Combined ACL • Rule Operation <ul style="list-style-type: none"> - Permit/Deny • Policy Action <ul style="list-style-type: none"> - Mirror - Rate Limit - Redirect - QoS Remark - Destination IP • ACL Rules Binding <ul style="list-style-type: none"> - Port Binding - VLAN Binding
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<p style="text-align: center;">Security</p>	<ul style="list-style-type: none"> • AAA • 802.1X <ul style="list-style-type: none"> - Port based authentication - MAC (Host) based authentication - Authentication Method includes PAP/EAP-MD5/EAP-TLS/EAP-TTLS/EAP-PEAP - MAB - Guest VLAN - Support Radius authentication and accountability • IP/IPv6-MAC Binding <ul style="list-style-type: none"> - 512 Binding Entries - DHCP Snooping - DHCPv6 Snooping - ARP Inspection - ND Detection • IP Source Guard <ul style="list-style-type: none"> - 253 Entries - Source IP+Source MAC • IPv6 Source Guard <ul style="list-style-type: none"> - 183 Entries - Source IPv6 Address+Source MAC • DoS Defend • Static/Dynamic/Permanent Port Security <ul style="list-style-type: none"> - Up to 64 MAC addresses per port • Broadcast/Multicast/Unicast Storm Control <ul style="list-style-type: none"> - kbps/ratio/pps control mode • 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 	<ul style="list-style-type: none"> • AAA • 802.1X <ul style="list-style-type: none"> - Port based authentication - MAC (Host) based authentication - VLAN Assignment - MAB - Guest VLAN - Support Radius authentication and accountability • IP-MAC Binding <ul style="list-style-type: none"> - 512 Binding Entries - DHCP Snooping - ARP Inspection - IP Source Guard • IPv6-MAC Binding <ul style="list-style-type: none"> - 512 Binding Entries - DHCPv6 Snooping - ND Detection - IPv6 Source Guard • DoS Defend • Static/Dynamic/Permanent Port Security <ul style="list-style-type: none"> - Up to 64 MAC addresses per port • Broadcast/Multicast/Unicast Storm Control <ul style="list-style-type: none"> - kbps/ratio/pps control mode • 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
<p style="text-align: center;">IPv6 Support</p>	<ul style="list-style-type: none"> • IPv6 Dual IPv4/IPv6 • Multicast Listener Discovery (MLD) Snooping • IPv6 neighbor discovery (ND) • Path maximum transmission unit (MTU) discovery • Internet Control Message Protocol (ICMP) version 6 • TCPv6/UDPv6 • IPv6 applications <ul style="list-style-type: none"> - DHCPv6 Client - Ping6 - Tracert6 - Telnet (v6) - IPv6 SNMP - IPv6 SSH - IPv6 SSL - Http/Https - IPv6 TFTP 	<ul style="list-style-type: none"> • 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 6 • TCPv6/UDPv6 • IPv6 applications <ul style="list-style-type: none"> - DHCPv6 Client - Ping6 - Tracert6 - Telnet(v6) - IPv6 SNMP - IPv6 SSH - IPv6 SSL - Http/Https - IPv6 TFTP

Management	<ul style="list-style-type: none"> • 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 • System Log • 802.1ab LLDP/ LLDP-MED 	<ul style="list-style-type: none"> • 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 • SNTTP • System Log • 802.1ab LLDP/LLDP-MED
MIBs	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • MIB II (RFC 1213) • Interface MIB (RFC 2233) • Ethernet Interface MIB (RFC 1643) • Bridge MIB (RFC 1493) • P/Q-Bridge MIB (RFC 2674) • RMON MIB (RFC 2819) • RMON2 MIB (RFC 2021) • Radius Accounting Client MIB (RFC 2620) • Radius Authentication Client MIB (RFC 2618) • Remote Ping, Traceroute MIB (RFC 2925) • Support TP-Link private MIBs

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