



TL-SG3210XHP-M2

CARACTERÍSTICAS DE HARDWARE

Interface	• 8× 100/1000/2500 Mbps RJ45 Ports • 2× 10G SFP+ Slots • 1× RJ45 Console Port • 1× Micro-USB Console Port
Cantidad de Ventiladores	2
Fuente de Alimentación	100-240 V AC~50/60 Hz
Dimensiones (W X D X H)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)
Montaje	Rack Mountable
Consumo Máximo de energía	17.24 W (110V/60Hz) (no PD connected) 291.49 W (110V/60Hz) (with 240 W PD connected)
Disipación Máxima de Calor	58.82 BTU/h (110 V/60 Hz) (no PD connected) 994.56 BTU/h (110 V/60 Hz) (with 240 W PD connected)

RENDIMIENTO

Capacidad de Switcheo	80 Gbps
Tasa de Reenvío de Paquetes	59.52 Mpps
Tabla de MAC Address	16 K
Jumbo Frame	9 KB

CARACTERÍSTICAS DE SOFTWARE

Calidad de servicio	• 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 - Mirror (to supported interface) - Redirect (to supported interface) - Rate Limit
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Características de L2 y L2 +	- QoS Remark • 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: TC Protect, BPDU Filter, Root 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	• IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - IGMP Authentication • IGMP Authentication • MLD Snooping - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Static Group Config - Limited IP Multicast • MVR • Multicast Filtering: 256 profiles and 16 entries per profile
VLAN	• VLAN Group - Max 4K VLAN Groups • 802.1Q Tagged VLAN • MAC VLAN: 7 Entries • Protocol VLAN: Protocol Template 16, Protocol VLAN 16 • Private VLAN • GVRP

Lista de control de acceso

- VLAN VPN (QinQ)
 - Port-Based QinQ
 - Selective QinQ
- Voice VLAN
- Time-based ACL
- MAC ACL
 - Source MAC
 - Destination MAC
 - VLAN ID
 - User Priority
 - Ether Type
- IP ACL
 - Source IP
 - Destination IP
 - Fragment
 - IP Protocol
 - TCP Flag
 - TCP/UDP Port
 - DSCP/IP TOS
 - User Priority
- Combined ACL
- Packet Content ACL
- IPv6 ACL
- Policy
 - Mirroring
 - Redirect
 - Rate Limit
 - QoS Remark
- ACL apply to Port/VLAN

Seguridad

- IP-MAC-Port Binding
 - 512 Entries
 - DHCP Snooping
 - ARP Inspection
 - IPv4 Source Guard: 100 Entries
- IPv6-MAC-Port Binding
 - 512 Entries
 - DHCPv6 Snooping
 - ND Detection
 - IPv6 Source Guard: 100 Entries
- DoS Defend
- Static/Dynamic Port Security
 - Up to 64 MAC addresses per port
- Broadcast/Multicast/Unicast Storm Control
 - kbps/ratio control mode
- 802.1X
 - Port base authentication
 - Mac base authentication

IPv6

- 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
- 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

L3 Features

- 16 IPv4/IPv6 Interfaces
- Static Routing
- 48 static routes
- Static ARP
- 128 Static Entries
- Proxy ARP
- Gratuitous ARP
- DHCP Server
- DHCP Relay
- DHCP Interface Relay
- DHCP VLAN Relay
- DHCP L2 Relay
- Web-based GUI

Administración

	• Command Line Interface (CLI) through the console port, telnet • SNMP v1/v2c/v3 - Trap/Inform - RMON (1,2,3,9 groups) • SDM Template • DHCP/BOOTP Client • 802.1ab LLDP/LLDP-MED • DHCP AutoInstall • Dual Image, Dual Configuration • CPU Monitoring • Cable Diagnostics • EEE • Password Recovery • SNTP • System Log • Support Omada Hardware Controller (OC200/OC300), Software Controller, Cloud-Based Controller
Características Avanzadas	• Automatic Device Discovery • Batch Configuration • Batch Firmware Upgrading • Intelligent Network Monitoring • Abnormal Event Warnings • Unified Configuration • Reboot Schedule • ZTP (Zero-Touch Provisioning)**
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
OTROS	
Certificacion	CE, FCC, RoHS
Contenidos del Paquete	• TL-SG3210XHP-M2 Switch • Power Cord • Quick Installation Guide • Rackmount Kit • Rubber Feet
Ambiente	• Operating Temperature: 0–50 °C (32–122 °F); • Storage Temperature: -40–70 °C (-40–158 °F)

- Operating Humidity: 10–90% RH non-condensing
- Storage Humidity: 5–90% RH non-condensing