Model Number	TL-SG3428XMP(UN)1.0
HARDWARE FEATURES	
Interface	• 24× 10/100/1000 Mbps RJ45 Ports
	• 4× 10G SFP+ Slots
	• 1× RJ45 Console Port
	• 1× Micro-USB Console Port
Fan Quantity	2
Power Supply	100-240 V AC~50/60 Hz
PoE+ Ports(RJ45)	• Standard: 802.3at/af compliant
	• PoE+ Ports: 24 Ports, up to 30 W per port
	• Power Budget: 384 W
Dimensions (W x D x H)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)
Mounting	Rack Mountable
Max Power Consumption	34.4 W (110V/60Hz) (no PD device connected)
	465.8 W (110V/60Hz) (with 384 W PD device connected)
Max Heat Dissipation	117.38 BTU/h (110 V/60 Hz) (no PD device connected)
	1589.31 BTU/h (110 V/60 Hz) (with 384 W PD device connected)
PERFORMANCE	
Switching Capacity	128 Gbps
Packet Forwarding Rate	95.23 Mpps
MAC Address Table	16 K
Jumbo Frame	9 KB
SOFTWARE FEATURES	
Quality of Service	• **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
	- QoS Remark
L2 and L2+ Features	• **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: 30 Entries**
	• **Protocol VLAN: Protocol Template 16, Protocol VLAN 16**
	• **Private VLAN**
	• **GVRP**
	• **VLAN VPN (QinQ)**
	- Port-Based QinQ
	- Selective QinQ
	• **Voice VLAN**
Access Control List	• **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
Security	**• 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
	- VLAN Assignment
	- MAB
	- Guest VLAN
	- Support Radius authentication andaccountability
	• 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	**• 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
	• 16 IPv4/IPv6 Interfaces
	• Static Routing
	- 48 static routes
	• Static ARP
	- 128 Static Entries

L3 Features	**• Proxy ARP**
	• Gratuitous ARP
	• DHCP Server
	• DHCP Relay
	- DHCP Interface Relay
	- DHCP VLAN Relay
	• DHCP L2 Relay
Management	**• Web-based GUI**
	• 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
Advanced Features	• Support Omada Hardware Controller (OC200/OC300), Software Controller, Cloud-Based Controller
	• 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
OTHERS	
Certification	CE, FCC, RoHS
Package Contents	• TL-SG3428XMP Switch
	• Power Cord
	• Quick Installation Guide
	• Rackmount Kit
	• Rubber Feet
Environment	• Operating Temperature: 0–45 ℃ (32–113 ℉);
	• Storage Temperature: -40–70 ℃ (-40–158 ℉)
	• Operating Humidity: 10–90% RH non-condensing
	• Storage Humidity: 5–90% RH non-condensing

*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.

**Zero-Touch Provisioning requires the use of Omada Cloud-Based Controller. Please go to Omada Cloud-Based Controller Product List to find all the models supported by Omada Cloud-Based Controller.

**L3 and ISP features can only be configured in standalone mode.