

# Omada Lite L3 Managed Switch Datasheet

---

## SG5452XMPP

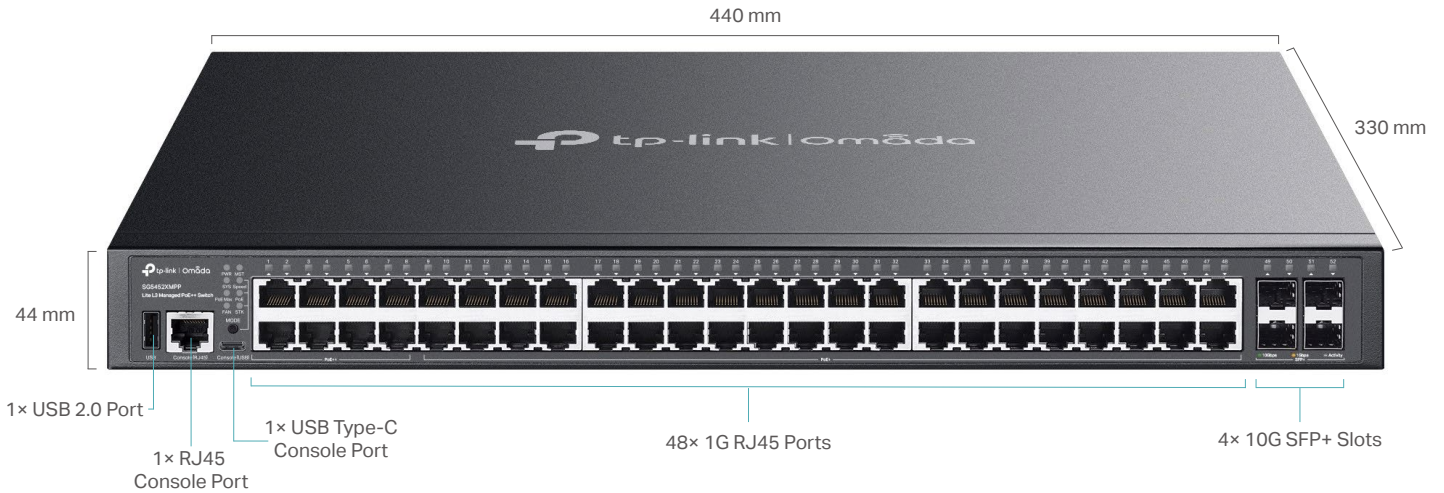
Omada 48-Port Gigabit Stackable Lite L3 Managed PoE++ Switch with 4× 10G Slots



## Highlights

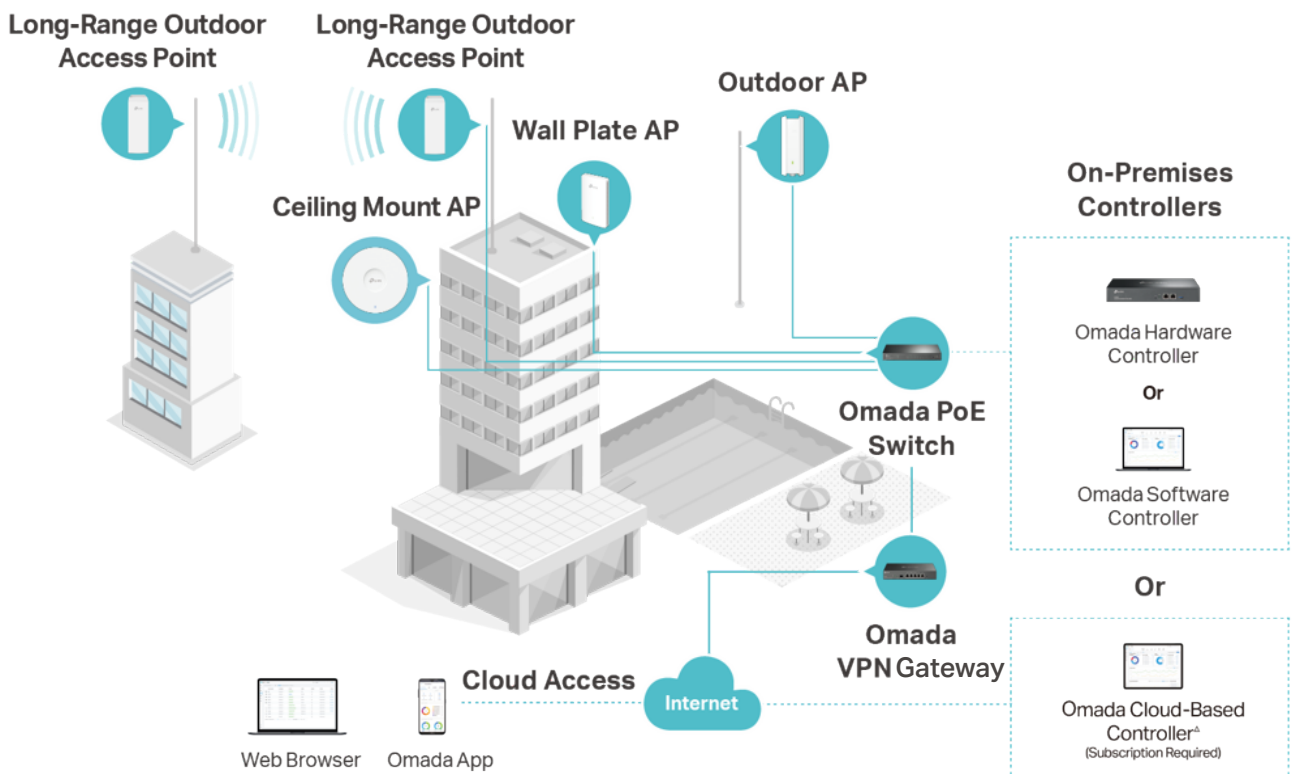
- 8× Gigabit 802.3af/at/bt PoE++ ports (Max 90 W per port)
- 40× Gigabit 802.3af/at PoE+ ports (Max 30 W per port)
- 4× 10 Gbps SFP+ slots
- Up to 770 W total PoE budget<sup>Δ</sup>
- Fast PoE and Perpetual PoE
- Physical Stacking up to 4 units for built-in redundancy and performance
- L3 features: RIP, OSPF, Static Routing, and DHCP Server/Relay
- Security Strategies: ACL, Port Security, DoS Defend, 802.1X
- ERPS supports rapid protection and recovery in a ring topology
- Centralized cloud management via the Omada SDN controller
- Standalone management via web, CLI, SNMP, and RMON

# Product Pictures



# Omada Solution

Omada's 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.



Hassle-Free Cloud or On-Premises Controllers



Multi-Site Cloud Management



Zero-Touch Provisioning (ZTP)<sup>†</sup>



Intelligent Monitoring

# Specifications

Hardware Features & Performance		
Model		SG5452XMPP
General	Interface	48× 10/100/1000 Mbps RJ45 Ports 4× 1/10 Gbps SFP+ Slots*
	Console Ports	1× RJ45 + 1× USB Type-C
	USB Ports	1× USB 2.0
	Flash	1× 4 MB Nor + 1× 512 MB NAND
	DRAM	2 GB DDR4
	Processor	Dual-Core ARM @1.2GHz CPU
PoE	PoE Standard	802.3af/at/bt
	PoE Ports	8 Gigabit PoE++ RJ45 Ports (up to 90 W per Port) 40 Gigabit PoE+ RJ45 Ports (up to 30 W per Port)
	PoE Power Budget	770 W <sup>Δ</sup>
Performance	Switching Capacity	176 Gbps
	Forwarding Bandwidth	88 Gbps
	Packet Forwarding Rate	130.94 Mpps
	MAC Address Table	16 K
	Packet Buffer	12 Mbit
	Stacking Port	10G SFP+ slot (uplink ports can be used as stacking ports)
	Stacking Bandwidth	Up to 40 Gbps (max 2 stacking ports)
	Max Stacking Number	4
	Compatible Models for Stacking	SG5428X, SG5428XMPP, SG5452X, SG5452XMPP
	Transmission Method	Store and Forward
	Jumbo Frame	9 KB
Physical & Environmet	Power Supply	100-240 V~ 50/60 Hz
	Max Power Consumption	893.6 W (220V/50Hz) ( with 770 W PD connected @ 25 °C) 942.7 W (110V/60Hz) ( with 770 W PD connected @ 25 °C)
	Max Heat Dissipation	3047.18 BTU/hr (220V/50Hz) ( with 770 W PD connected @ 25 °C) 3214.61 BTU/hr (110V/60Hz) ( with 770 W PD connected @ 25 °C)
	Standby Power Consumption	23.7 W (220V/50Hz @ 25 °C) 24.3 W (110V/60Hz @ 25 °C)
	Noise	Min: 43.2 dBA @1m 25 °C Max: 58.5 dBA @1m 25 °C
	Fan Quantity	3
	Airflow	Left-to-right
	Surge Protection	Service port: ±6 kV in common mode Power port: ±6 kV in differential mode; ±6 kV in common mode
	ESD Protection	Air: ±15 kV, Contact: ±8 kV
	MTBF	275,277 h @ 25 °C
	Dimensions (W x D x H)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)
	Installation	Rackmount
	Operating Temperature	-5 °C to 40 °C (23 °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	

\*Only one 10G RJ45 SFP+ module (SM5310-T) can be inserted at a time.

## Software Features

Model		SG5452XMPP	
System	System Info	<ul style="list-style-type: none"> <li>• Device Description                             <ul style="list-style-type: none"> <li>- Name</li> <li>- Location</li> <li>- System Contact</li> </ul> </li> <li>• System Time                             <ul style="list-style-type: none"> <li>- Manual</li> <li>- Synchronize with PC's Clock</li> <li>- SNTP Client</li> </ul> </li> <li>• DST                             <ul style="list-style-type: none"> <li>- Predefined Mode</li> <li>- Recurring Mode</li> <li>- Date Mode</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• LED                             <ul style="list-style-type: none"> <li>- LED on/off</li> </ul> </li> <li>• System IP                             <ul style="list-style-type: none"> <li>- Static IP/DHCP/BOOTP</li> </ul> </li> <li>• System IPv6                             <ul style="list-style-type: none"> <li>- Link-local Address Config</li> <li>- Global Address Autoconfig via RA Message</li> <li>- Global Address Autoconfig via DHCPv6 Server</li> <li>- Add a Global Address Manually</li> </ul> </li> </ul>
	User Management	<ul style="list-style-type: none"> <li>• User Settings</li> <li>• Access Level: 4 levels</li> </ul>	<ul style="list-style-type: none"> <li>• Password Recovery Settings</li> </ul>
	System Tools	<ul style="list-style-type: none"> <li>• Config Restore/Backup                             <ul style="list-style-type: none"> <li>- Web: HTTP</li> <li>- CLI: TFTP/USB</li> </ul> </li> <li>• Firmware Upgrade                             <ul style="list-style-type: none"> <li>- Web: HTTP</li> <li>- CLI: TFTP/USB</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• System Reboot</li> <li>• System Reset</li> <li>• Boot Config (Dual Image)</li> <li>• Reboot Schedule</li> </ul>
	Access Security	<ul style="list-style-type: none"> <li>• Access Control Config                             <ul style="list-style-type: none"> <li>- IP-based</li> <li>- MAC-based</li> <li>- Port-based</li> <li>- IPv6-based</li> </ul> </li> <li>• HTTP Config                             <ul style="list-style-type: none"> <li>- Enable/Disable</li> <li>- Session Config</li> <li>- Access User Number</li> <li>- Port Setting</li> </ul> </li> <li>• SSL Config                             <ul style="list-style-type: none"> <li>- SSLv3/TLSv1 Enable/Disable</li> <li>- CipherSuite Config</li> <li>- IPv6 SSL</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• SSH Config                             <ul style="list-style-type: none"> <li>- Enable/Disable</li> <li>- v2</li> <li>- Encryption Algorithm</li> <li>- Data Integrity Algorithm</li> <li>- Port Setting</li> <li>- IPv6 SSH</li> </ul> </li> <li>• Telnet Config                             <ul style="list-style-type: none"> <li>- Enable/Disable</li> <li>- Port Setting</li> <li>- IPv6 Telnet</li> </ul> </li> <li>• Console Port                             <ul style="list-style-type: none"> <li>- Baud Rate setting</li> </ul> </li> </ul>
	Stack	<ul style="list-style-type: none"> <li>• Stack Setting</li> <li>• Stack-port LAG: up to 4 groups, each group supports a maximum of 2 stackable-ports</li> </ul>	<ul style="list-style-type: none"> <li>• Stackable Devices: up to 4 devices</li> <li>• Stack MAC Address Switching Delay</li> </ul>
	SDM Template	<ul style="list-style-type: none"> <li>• Default Template                             <ul style="list-style-type: none"> <li>- IPv4 ACL Rules: 300 entries</li> <li>- MAC ACL Rules: 600 entries</li> <li>- Combined ACL Rules: 300 entries</li> <li>- IPv6 ACL Rules: 0 entries</li> <li>- IPv4 Source Guard: 127 entries</li> <li>- IPv6 Source Guard: 0 entries</li> </ul> </li> <li>• IPv4 Access                             <ul style="list-style-type: none"> <li>- IPv4 ACL Rules: 0 entries</li> <li>- MAC ACL Rules: 600 entries</li> <li>- Combined ACL Rules: 600 entries</li> <li>- IPv6 ACL Rules: 0 entries</li> <li>- IPv4 Source Guard: 127 entries</li> <li>- IPv6 Source Guard: 0 entries</li> </ul> </li> <li>• IPv6 Access                             <ul style="list-style-type: none"> <li>- IPv4 ACL Rules: 0 entries</li> <li>- MAC ACL Rules: 600 entries</li> <li>- Combined ACL Rules: 0 entries</li> <li>- IPv6 ACL Rules: 250 entries</li> <li>- IPv4 Source Guard: 0 entries</li> <li>- IPv6 Source Guard: 127 entries</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Omada                             <ul style="list-style-type: none"> <li>- IPv4 ACL Rules: 0 entries</li> <li>- MAC ACL Rules: 0 entries</li> <li>- Combined ACL Rules: 400 entries</li> <li>- IPv6 ACL Rules: 200 entries</li> <li>- IPv4 Source Guard: 0 entries</li> <li>- IPv6 Source Guard: 0 entries</li> </ul> </li> </ul>
	Time Range	<ul style="list-style-type: none"> <li>• Time Range Config</li> </ul>	<ul style="list-style-type: none"> <li>• Holiday Config</li> </ul>
	File System	<ul style="list-style-type: none"> <li>• File Operation</li> <li>• TFTP</li> <li>• USB Storage</li> </ul>	

## Software Features

Model	SG5452XMPP		
L2 Features	Port	<ul style="list-style-type: none"> <li>• Port config                             <ul style="list-style-type: none"> <li>- Speed and Duplex</li> <li>- Flow Control(802.3x)</li> <li>- Jumbo Frame: 1518-9216 KB</li> </ul> </li> <li>• Port Mirror                             <ul style="list-style-type: none"> <li>- Ingress (Many to One)</li> <li>- Egress (Many to One)</li> <li>- RSPAN</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Port Security                             <ul style="list-style-type: none"> <li>- Learn mode: Dynamic/Static/Permanent/Sticky</li> <li>- Port Max Learned MAC: 64</li> <li>- Exceed Max Learned Trap</li> </ul> </li> <li>• Port Isolation</li> <li>• Loopback Detection                             <ul style="list-style-type: none"> <li>- Alert</li> <li>- Port Based</li> <li>- VLAN Based</li> </ul> </li> </ul>
	DDM		
	LAG	<ul style="list-style-type: none"> <li>• Hash Algorithm: SRC MAC/DST MAC/SRC MAC + DST MAC/SRC IP/DST IP/SRC IP + DST IP</li> </ul>	<ul style="list-style-type: none"> <li>• Static LAG</li> <li>• LACP (802.3ad)</li> <li>• Up to 64 LAGs, up to 8 ports per LAG</li> </ul>
	Traffic Monitor	<ul style="list-style-type: none"> <li>• TX Packets/Bytes</li> <li>• RX Packets/Bytes</li> <li>• TX Unicast/Multicast/Broadcast</li> <li>• RX Unicast/Multicast/Broadcast</li> </ul>	<ul style="list-style-type: none"> <li>• TX Errors</li> <li>• RX Errors</li> <li>• TX/RX Packet Size Analysis</li> </ul>
	MAC Address	<ul style="list-style-type: none"> <li>• MAC Address Table: 16K entries</li> <li>• IVL/SVL: IVL</li> <li>• Create Static Unicast Address</li> </ul>	<ul style="list-style-type: none"> <li>• Bind Dynamic Address</li> <li>• Create Filtering Address</li> <li>• MAC Notification Settings</li> </ul>
	VLAN	<ul style="list-style-type: none"> <li>• 802.1Q VLAN: 4K VLANs</li> <li>• MAC VLAN: 60 entries</li> <li>• Protocol VLAN                             <ul style="list-style-type: none"> <li>- 16 Protocol VLAN Template</li> <li>- 12 Protocol VLAN Group</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• QinQ(VLAN VPN): 256 entries</li> <li>• Private VLAN</li> <li>• GVRP</li> </ul>
	L2 Multicast	<ul style="list-style-type: none"> <li>• Max Multicast Groups: 2000 (IGMP Snooping &amp; MLD Snooping &amp; MVR)</li> <li>• IGMP Snooping                             <ul style="list-style-type: none"> <li>- IGMP V1/V2/V3</li> <li>- Report Message Suppression</li> <li>- Fast Leave</li> <li>- Unknown Multicast Discard</li> <li>- Static Multicast Groups</li> <li>- IGMP Snooping Querier</li> <li>- IGMP Packet Statistics</li> <li>- IGMP Authentication</li> <li>- Multicast Filtering: 256 profiles and 16 entries per profile</li> <li>- Router Port Setting: Static Router Port/Forbidden Router Port</li> </ul> </li> <li>• MVR</li> </ul>	<ul style="list-style-type: none"> <li>• MLD Snooping                             <ul style="list-style-type: none"> <li>- MLD V1/V2</li> <li>- Report Message Suppression</li> <li>- Unknown Multicast Discard</li> <li>- Fast Leave</li> <li>- Static Multicast Groups</li> <li>- MLD Snooping Querier</li> <li>- MLD Packet Statistics</li> <li>- Multicast Filtering: 256 profiles and 16 entries per profile</li> <li>- Router Port Setting: Static Router Port/Forbidden Router Port</li> </ul> </li> </ul>
	STP	<ul style="list-style-type: none"> <li>• STP(802.1d)</li> <li>• RSTP(802.1w)</li> <li>• MSTP(802.1s)</li> <li>• MSTI instances: 16</li> </ul>	<ul style="list-style-type: none"> <li>• STP Security                             <ul style="list-style-type: none"> <li>- Loop Protect</li> <li>- Root Protect</li> <li>- TC Protect</li> <li>- BPDU Protect</li> <li>- BPDU Filter</li> </ul> </li> </ul>
	LLDP (802.1ab)	<ul style="list-style-type: none"> <li>• Local Info</li> <li>• Neighbor Info</li> </ul>	<ul style="list-style-type: none"> <li>• Statistic Info</li> <li>• LLDP-MED</li> </ul>
	L2PT		
	PPPoE ID Insertion	<ul style="list-style-type: none"> <li>• Circuit-ID Type</li> </ul>	<ul style="list-style-type: none"> <li>• Remote-ID</li> </ul>
	ERPS	<ul style="list-style-type: none"> <li>• Ring: 16</li> </ul>	
	Virtual MAC		
	Sticky MAC		

## Software Features

Model		SG5452XMPP	
L3 Features	IPv4 Interfaces: 128 (shared with IPv6 Interfaces) IPv6 Interfaces: 128 (shared with IPv4 Interfaces)		
	IPv4 Static Routes: 512 (shared with IPv6 Static Routes) IPv6 Static Routes: 128 (shared with IPv4 Static Routes)		
	IPv4 Host Routes: 1024 (shared with IPv4 Host Routes) IPv6 Host Routes: 890 (shared with IPv4 Host Routes)		
	IPv4 Network Routes: 1796 (shared with IPv6 Network Routes) IPv6 Network Routes: 450 (shared with IPv4 Network Routes)		
	IPv4/IPv6 dual stack		
	ARP	<ul style="list-style-type: none"> <li>• Static ARP: 512</li> <li>• Dynamic ARP: 2000</li> </ul>	
	ND: 3600		
	DHCP	<ul style="list-style-type: none"> <li>• DHCP Server                             <ul style="list-style-type: none"> <li>- IP Pools: 64</li> <li>- Max Leases: 8000</li> <li>- Manual Binding Entries: 1000</li> <li>- Exclude IP range Entries: 100</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• DHCP Relay</li> <li>• DHCP L2 Relay</li> <li>• DHCPv6 Relay</li> <li>• DHCPv6 L2 Relay</li> </ul>
	OSPF	<ul style="list-style-type: none"> <li>• OSPFv2                             <ul style="list-style-type: none"> <li>- OSPF Process: 4</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• OSPFv3                             <ul style="list-style-type: none"> <li>- OSPFv3 Instance: 1</li> </ul> </li> </ul>
RIP	<ul style="list-style-type: none"> <li>• RIPv1/v2</li> </ul>	<ul style="list-style-type: none"> <li>• RIPng</li> </ul>	
QoS	Class of Service	<ul style="list-style-type: none"> <li>• Priority Queues: 8 Queues</li> <li>• Port Priority</li> <li>• 802.1P Priority</li> <li>• DSCP/ToS Priority</li> </ul>	<ul style="list-style-type: none"> <li>• Priority Schedule Mode: SP/WRR per Queue</li> <li>• Queue Weight Config: For WRR/SP+WRR Mode</li> </ul>
	Bandwidth Control	<ul style="list-style-type: none"> <li>• Rate Limit                             <ul style="list-style-type: none"> <li>- Ingress Rate Limit</li> <li>- Egress Rate Limit</li> <li>- Rate Limit Grade: 64kbps</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Storm Control                             <ul style="list-style-type: none"> <li>- Control Mode: kbps/ratio</li> <li>- Broadcast</li> <li>- Multicast</li> <li>- Unknown Unicast</li> </ul> </li> </ul>
	Voice VLAN	<ul style="list-style-type: none"> <li>• OUI entries: 64</li> </ul>	

## Software Features

Model	SG5452XMPP		
Network Security	IP-MAC Binding	<ul style="list-style-type: none"> <li>• Binding entries: 1024 entries</li> <li>• Manual Binding</li> </ul>	<ul style="list-style-type: none"> <li>• ARP Scanning</li> <li>• DHCP Snooping</li> </ul>
	IPv6-MAC Binding	<ul style="list-style-type: none"> <li>• Binding entries: 1024 entries</li> <li>• Manual Binding</li> </ul>	<ul style="list-style-type: none"> <li>• DHCPv6 Snooping</li> <li>• ND Snooping</li> </ul>
	ARP Inspection	<ul style="list-style-type: none"> <li>• ARP Detect entries: 1024 entries</li> <li>• ARP Detect</li> </ul>	<ul style="list-style-type: none"> <li>• ARP Defend</li> <li>• ARP Statistics</li> </ul>
	ND Detection	<ul style="list-style-type: none"> <li>• ND Detection entries: 1024 entries</li> <li>• ND Detect</li> </ul>	<ul style="list-style-type: none"> <li>• ND Statistics</li> </ul>
	IP Source Guard	<ul style="list-style-type: none"> <li>• IP Source Guard entries</li> <li>- Default SDM Template: 127</li> <li>- IPv4 SDM Template: 127</li> <li>- IPv6 SDM Template: 0</li> </ul>	<ul style="list-style-type: none"> <li>• Security Type</li> <li>- Source IP</li> <li>- Source IP + Source MAC</li> </ul>
	IPv6 Source Guard	<ul style="list-style-type: none"> <li>• IPv6 Source Guard entries</li> <li>- Default SDM Template: 0</li> <li>- IPv4 SDM Template: 0</li> <li>- IPv6 SDM Template: 127</li> </ul>	<ul style="list-style-type: none"> <li>• Security Type</li> <li>- Source IPv6</li> <li>- Source IPv6 + Source MAC</li> </ul>
	RA Guard: 30 entries		
	DoS Defend	<ul style="list-style-type: none"> <li>• Scan SYNFIN</li> <li>• Xmascan</li> <li>• NULL Scan</li> </ul>	<ul style="list-style-type: none"> <li>• SYN sPort less 1024</li> <li>• Ping Flooding</li> <li>• SYN/SYN-ACK Flooding</li> </ul>
	DHCP Filter	<ul style="list-style-type: none"> <li>• DHCPv4 Filter</li> <li>- Legal Server entries: 200</li> </ul>	<ul style="list-style-type: none"> <li>• DHCPv6 Filter</li> <li>- Legal Server entries: 200</li> </ul>
	802.1x	<ul style="list-style-type: none"> <li>• Control Type</li> <li>- Port Based</li> <li>- MAC Based</li> <li>• Auth Method: PAP/EAP-MD5/EAP-TLS/EAP-TTLS/EAP-PEAP</li> </ul>	<ul style="list-style-type: none"> <li>• Radius Authentication</li> <li>• Radius Accounting</li> <li>• Radius Server Load Balancing</li> <li>• RADSEC</li> <li>• Guest VLAN</li> <li>• VLAN Assignment</li> <li>• MAB</li> </ul>
	AAA		
	ACL	<ul style="list-style-type: none"> <li>• Time-Range</li> <li>- Time Slice</li> <li>- Week Time-Range</li> <li>- Absolute Time-Range</li> <li>- Holiday</li> <li>• MAC ACL</li> <li>• IP ACL</li> <li>• Combined ACL</li> <li>• IPv6 ACL</li> <li>• Rule Operation</li> <li>- Permit</li> <li>- Deny</li> <li>• Policy Action</li> <li>- Mirror</li> <li>- Rate Limit</li> <li>- Redirect</li> <li>- QoS Remark</li> <li>• Binding</li> <li>- Port Binding</li> <li>- VLAN Binding</li> </ul>	<ul style="list-style-type: none"> <li>• Default Template</li> <li>- IPv4 ACL Rules: 300 entries</li> <li>- MAC ACL Rules: 600 entries</li> <li>- Combined ACL Rules: 300 entries</li> <li>- IPv6 ACL Rules: 0 entries</li> <li>• IPv4 Access</li> <li>- IPv4 ACL Rules: 0 entries</li> <li>- MAC ACL Rules: 600 entries</li> <li>- Combined ACL Rules: 600 entries</li> <li>- IPv6 ACL Rules: 0 entries</li> <li>• IPv6 Access</li> <li>- IPv4 ACL Rules: 0 entries</li> <li>- MAC ACL Rules: 600 entries</li> <li>- Combined ACL Rules: 0 entries</li> <li>- IPv6 ACL Rules: 250 entries</li> <li>• Omada</li> <li>- IPv4 ACL Rules: 0 entries</li> <li>- MAC ACL Rules: 0 entries</li> <li>- Combined ACL Rules: 400 entries</li> <li>- IPv6 ACL Rules: 200 entries</li> </ul>

## Software Features

Model	SG5452XMPP	
Maintenance	System Monitor	<ul style="list-style-type: none"> <li>• CPU Monitor</li> <li>• Memory Monitor</li> </ul>
	sFlow	
	OAM	<ul style="list-style-type: none"> <li>• EFM                             <ul style="list-style-type: none"> <li>- Link Monitoring</li> <li>- Remote Failure Indication Config</li> <li>- Statistics</li> </ul> </li> </ul>
	DLDP	
	SNMP	<ul style="list-style-type: none"> <li>• SNMP Version: v1/v2c/v3</li> <li>• SNMP Config                             <ul style="list-style-type: none"> <li>- Global Config</li> <li>- SNMP View</li> <li>- SNMP Group</li> <li>- SNMP User</li> <li>- SNMP Community</li> </ul> </li> <li>• Notification                             <ul style="list-style-type: none"> <li>- Trap: IPv4/IPv6</li> <li>- Inform: IPv4/IPv6</li> </ul> </li> <li>• RMON v1</li> <li>• Public MIBs</li> <li>• Private MIBs</li> </ul>
	MIBs	<ul style="list-style-type: none"> <li>• MIB II (RFC1213)</li> <li>• Interface MIB (RFC2233)</li> <li>• Ethernet Interface MIB (RFC1643)</li> <li>• Bridge MIB (RFC1493)</li> <li>• P/Q-Bridge MIB (RFC2674)</li> <li>• RMON MIB (RFC2819)</li> <li>• RADIUS Accounting Client MIB (RFC2620)</li> <li>• RADIUS Authentication Client MIB (RFC2618)</li> <li>• Remote Ping, Traceroute MIB (RFC2925)</li> <li>• Support TP-Link Private MIB</li> </ul>
	IEEE 802.3az Energy Efficient Ethernet (EEE)	
	DHCP Auto Install	
	Log	<ul style="list-style-type: none"> <li>• Display/Filtering</li> <li>• Severity Level</li> <li>• Save to Flash</li> <li>• Remote Host</li> <li>• Backup Log</li> </ul>
	Device Diagnostics	<ul style="list-style-type: none"> <li>• Cable Test</li> </ul>
	Network Diagnostics	<ul style="list-style-type: none"> <li>• Ping</li> <li>• IPv6 Ping</li> <li>• Tracert</li> <li>• IPv6 Tracert</li> </ul>
Others	Index	
	Show running config	<ul style="list-style-type: none"> <li>• Use the show running config command to view device's running status via telnet.</li> <li>• Configuration File: Import/Export/Edit</li> </ul>
Omada SDN Controller	Omada SDN controller	



# Ordering Information

## Host Switch

Model	Description
SG5452XMPP	Omada 48-Port Gigabit Stackable Lite L3 Managed PoE++ Switch with 4× 10G Slots

## 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
SM5110LSA-10	10GBase-BX WDM Bi-Directional SFP+ Module, single-mode, LC connector, TX: 1330 nm/RX: 1270 nm, 10 km
SM5110LSB-10	10GBase-BX WDM Bi-Directional SFP+ Module, single-mode, LC connector, TX: 1270 nm/RX: 1330 nm, 10 km

## 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
MC220L	Gigabit SFP slot supporting mini-GBIC modules, chassis mountable
MC420L	10G SFP+ slot supporting mini-GBIC modules, chassis mountable

## Direct Attach Cable

Model	Description
SM5220-1M	1 Meter 10G SFP+ Direct Attach Cable
SM5220-3M	3 Meters 10G SFP+ Direct Attach Cable

<sup>A</sup>PoE budget calculations are based on laboratory testing. The actual PoE power budget is not guaranteed and will vary due to client limitations and environmental factors.

<sup>†</sup>These functions require the use of the Omada SDN Controller. Zero-Touch Provisioning requires the use of the Omada Cloud-Based Controller.

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](http://www.tp-link.com).

Specifications are subject to change without notice. All the brands and product names are trademarks or registered trademarks of their respective holders. © 2025 TP-Link