TP-Link Omada SG5452XMPP V1 (SG5452XMPP)

TP-Link Omada SG5452XMPP V1 - Switch - L3 Lite - Managed - 48 x 10/100/1000 + 4 x 10Gb Ethernet SFP+ - rack-mountable - PoE++ (770 W) - for TP-Link MC200CM, MC210CS, TL-MC210CS, TL-SM331T



The TP-Link Omada SG5452XMPP V1 is a versatile switch designed to meet the demanding needs of modern networks. With 48 10/100/1000 ports and 4 10Gb Ethernet SFP+ uplinks, it delivers performance and flexibility for high-speed connectivity. The unit supports features such as Layer 3 Lite switching, quality of service, and VLANs, which enhance traffic management, security, and network efficiency. Its stackable design allows for scalability, accommodating up to 4 units in a stack, making it suitable for growing network infrastructures. Equipped with a power budget of 770 W for PoE++, this switch efficiently powers connected devices while maintaining reliable operation in various environmental conditions.

Key Selling Points

48 10/100/1000 ports and 4 10Gb Ethernet SFP+ uplinks
Supports Layer 3 Lite switching for advanced networking
Stackable design for expanded capacity and easy management
PoE budget of 770 W for powering devices
Complies with various standards for reliable operation

Product Features

Robust performance
The switch has a total switching capacity of 40 Gbps, ensuring fast and efficient data transfer across the network, while the stacking bandwidth of 176 Gbps ensures seamless communication between stacked units.

Extensive management capabilities
With support for multiple remote management protocols like SNMP, HTTP, and Telnet, this switch allows for efficient network management and monitoring from various platforms.

High port density
Featuring 48 ports, this switch caters to high connection demands in busy network environments, supporting a wide range of devices with stable and secure connections.

Environmentally resilient
Designed to operate in temperatures ranging from -5°C to 45°C, the TP-Link Omada SG5452XMPP V1 ensures reliability even in challenging environments, complemented by a wide humidity range for various operating conditions.

Advanced security features
Equipped with robust security protocols including SSH and RADIUS, this switch provides essential authentication methods to safeguard data and manage access securely.

Main specifications

Product Description	*TP-Link Omada SG5452XMPP V1 - switch - 48 ports - Managed - rack-mountable*
Device Type	*Switch - 48 ports - L3 Lite - Managed - stackable*
Enclosure Type	*Rack-mountable*
Subtype	*Gigabit Ethernet*
Ports	*48 x 10/100/1000 + 4 x 10Gb Ethernet SFP+*
Power Over Ethernet (PoE)	*PoE++*
PoE Budget	*770 W*
Performance	*Switching capacity: 176 Gbps ¦ Packet forwarding rate: 130.94 Mpps ¦ Stacking bandwidth: 40 Gbps ¦ Forwarding bandwidth: 88 Gbps*
Capacity	*Buffer capacity (MB): 12 ¦ Priority queues: 8 ¦ IPv4 interfaces: 128 ¦ IPv6 interfaces: 128 ¦ Maximum host route table: 1024 ¦ IPv4 routes (static): 512 ¦ IPv6 routes (static): 128 ¦ RIP routes: 1796 ¦ OSPFv2 routes: 1796 ¦ OSPFv3 routes: 450 ¦ Static ARP entries: 512 ¦ Dynamic ARP: 3600 ¦ DHCP pool: 64 ¦ Binding entries: 1000 ¦ Maximum L2 multicast table: 2000 ¦ VLAN groups: 4000 ¦ MAC VLAN address entries: 60 ¦ VLAN VPN (QinQ) entries: 256 ¦ IP MAC port binding entries: 1024 ¦ IPv6 MAC port binding entries: 1024 ¦ MAC addresses per port: 64*
MAC Address Table Size	*16K entries*
Jumbo Frame Support	*9KB*
Routing Protocol	*Static IP routing, RIP-1, RIP-2, OSPFv2, OSPFv3, L2PT, MLD, IGMP, MLDv2, MSTP, PPPoE, RIPng, RSTP, STP*
Remote Management Protocol	*DHCP, HTTP, HTTPS, CLI, SNMP 1, SNMP 2c, SNMP 3, BOOTP, RMON 1, MIB, Telnet, TFTP*

Features	DHCP relay, DHCP server, ACL support, DoS attack prevention, Port Security, ERPS, SDN, DAI, MAB, ZTP, metal housing, 3 fans, bandwidth control, port priority, QoS, rate limit, Storm Control, Voice VLAN, flow control, IGMP snooping, IP multicast, Link Aggregation, loopback detection, MLD snooping, port mirroring, RSPAN, STP support, fast leave, MVR, Multicast filtering function, DLDP support, DDM, sFlow, GVRP, port isolation, DHCP snooping, DHCPv6 snooping, AAA, Broadcast Storm Control, Guest VLAN, Multicast Storm Control, Unknown Storm Control, LLDP-MED, EEE, store and forward, 15KV ESD Protector (air-gap discharge), 8KV ESD Protector (contact discharge), security slot (Kensington security lock compatible)
Compliant Standards	IEEE 802.1x, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1ab (LLDP), IEEE 802.3az, IEEE 802.1D, IEEE 802.1s, IEEE 802.1w, IEEE 802.3ad (LACP), IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt
Power	AC 100-240 V (50/60 Hz)
Dimensions (WxDxH)	44 cm x 33 cm x 4.4 cm
System Requirements	Apple MacOS, Linux, Microsoft Windows 98SE/2000/NT/XP/Vista/7/8/8.1/10/11, Novell NetWare, UNIX
Designed For	TP-Link MC200CM, MC210CS, TL-MC210CS, TL-SM331T

Extended specification

General

Device Type	Switch - 48 ports - L3 Lite - Managed - stackable
Enclosure Type	Rack-mountable
Subtype	Gigabit Ethernet
Ports	48 x 10/100/1000 + 4 x 10Gb Ethernet SFP+
Power Over Ethernet (PoE)	PoE++
PoE Budget	770 W
Performance	Switching capacity: 176 Gbps ¦ Packet forwarding rate: 130.94 Mpps ¦ Stacking bandwidth: 40 Gbps ¦ Forwarding bandwidth: 88 Gbps
Capacity	Buffer capacity (MB): 12 ¦ Priority queues: 8 ¦ IPv4 interfaces: 128 ¦ IPv6 interfaces: 128 ¦ Maximum host route table: 1024 ¦ IPv4 routes (static): 512 ¦ IPv6 routes (static): 128 ¦ RIP routes: 1796 ¦ OSPFv2 routes: 1796 ¦ OSPFv3 routes: 450 ¦ Static ARP entries: 512 ¦ Dynamic ARP: 3600 ¦ DHCP pool: 64 ¦ Binding entries: 1000 ¦ Maximum L2 multicast table: 2000 ¦ VLAN groups: 4000 ¦ MAC VLAN address entries: 60 ¦ VLAN VPN (QinQ) entries: 256 ¦ IP MAC port binding entries: 1024 ¦ IPv6 MAC port binding entries: 1024 ¦ MAC addresses per port: 64
MAC Address Table Size	16K entries
Jumbo Frame Support	9KB
Max Units In A Stack	4
Routing Protocol	Static IP routing, RIP-1, RIP-2, OSPFv2, OSPFv3, L2PT, MLD, IGMP, MLDv2, MSTP, PPPoE, RIPng, RSTP, STP
Remote Management Protocol	DHCP, HTTP, HTTPS, CLI, SNMP 1, SNMP 2c, SNMP 3, BOOTP, RMON 1, MIB, Telnet, TFTP
Encryption Algorithm	SSL 3.0, TLS 1.0
Authentication Method	Secure Shell (SSH), RADIUS, RADSEC, PAP, EAP-MD5, EAP-PEAP, EAP-TLS, EAP-TTLS
Features	DHCP relay, DHCP server, ACL support, DoS attack prevention, Port Security, ERPS, SDN, DAI, MAB, ZTP, metal housing, 3 fans, bandwidth control, port priority, QoS, rate limit, Storm Control, Voice VLAN, flow control, IGMP snooping, IP multicast, Link Aggregation, loopback detection, MLD snooping, port mirroring, RSPAN, STP support, fast leave, MVR, Multicast filtering function, DLDP support, DDM, sFlow, GVRP, port isolation, DHCP snooping, DHCPv6 snooping, AAA, Broadcast Storm Control, Guest VLAN, Multicast Storm Control, Unknown Storm Control, LLDP-MED, EEE, store and forward, 15KV ESD Protector (air-gap discharge), 8KV ESD Protector (contact discharge), security slot (Kensington security lock compatible)
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Processor	X ARM: 1.2 GHz
RAM	2 GB DDR4 SDRAM
Status Indicators	Port status, power, speed, stack, system, PoE, PoE activity

Expansion / Connectivity

Interfaces	40 x 10/100/1000 Base-T RJ-45 PoE+ - 30 W ¦ 8 x 10/100/1000 Base-T RJ-45 PoE++ - 90 W ¦ 4 x 1000Base-X/10GBase-X SFP+ ¦ 1 x console RJ-45 console ¦ 1 x USB-C console ¦ USB 2.0

Miscellaneous

Included Accessories	Rubber feet, 8 screws, mounting brackets
Cables Included	1 x console cable
Rack Mounting Kit	Included
MTBF	211,644 hours
Compliant Standards	FCC, RoHS

Power

Power Device	Internal power supply
Voltage Required	AC 100-240 V (50/60 Hz)

Software / System Requirements

OS Required	Apple MacOS, Linux, Microsoft Windows 98SE/2000/NT/XP/Vista/7/8/8.1/10/11, Novell NetWare, UNIX

Environmental Parameters

Min Operating Temperature	-5 °C
Max Operating Temperature	45 °C
Humidity Range Operating	10 - 90% RH (non-condensing)
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Humidity Range Storage	5 - 90% RH (non-condensing)

Dimensions & Weight

Width	44 cm
Depth	33 cm
Height	4.4 cm

Compatibility Information

Designed For	TP-Link MC200CM, MC210CS, TL-MC210CS, TL-SM331T

What's in the box

TP-Link Omada SG5452XMPP V1
Rubber feet, mounting brackets, 8 screws
Console cable
Rack mounting kit

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