

TP-Link Omada SG3452XMPP V1.8 (SG3452XMPP)

TP-Link Omada SG3452XMPP V1.8 - Switch - L2+ - Managed - 40 x 10/100/1000 (PoE+) + 8 x 10/100/1000 (PoE++) + 4 x 10Gb Ethernet SFP+ - rack-mountable - PoE++ (750 W)



The TP-Link Omada SG3452XMPP V1.8 is designed to meet the demands of modern networks, offering efficient performance, comprehensive connectivity, and advanced security features. With a high switching capacity of 176 Gbps and a packet forwarding rate of 130.9 Mpps, it efficiently manages network traffic, ensuring smooth operations. This switch supports a wide range of devices through its 40 PoE+ ports, 8 PoE++ ports, and 4 10Gb Ethernet SFP+ ports, making it ideal for businesses requiring versatile connectivity options. Security is a priority, with features like 802.1x authentication, Access Control List (ACL) support, and IP/Mac/Port Binding (IPMB) to protect against unauthorized access. Additionally, its 750 W total PoE budget allows for the powering of multiple devices, while advanced management protocols facilitate easy monitoring and maintenance of the network. This switch is an excellent choice for organizations looking to enhance their network infrastructure with a reliable, secure, and efficient solution.

Key Selling Points

- 176 Gbps switching capacity and 130.9 Mpps packet forwarding rate for efficient data processing
- 48 PoE ports including 40 PoE+ and 8 PoE++ for flexible device connectivity
- Comprehensive security features including 802.1x authentication and ACL support
- 750 W total PoE budget to support multiple devices
- Easy remote management with SNMP, RMON, and HTTP/HTTPS protocols

Product Features

- Efficient performance**
Equipped with a switching capacity of 176 Gbps and a packet forwarding rate of 130.9 Mpps, this switch ensures efficient handling of network traffic, minimizing bottlenecks for smooth operations.
- Comprehensive connectivity**
Features 40 PoE+ ports, 8 PoE++ ports, and 4 10Gb Ethernet SFP+ ports, providing versatile connection options for a wide range of devices and applications, from high-power wireless access points to surveillance cameras.
- Advanced security**
Supports a suite of security features including 802.1x authentication, Access Control List (ACL) support, and IP/Mac/Port Binding (IPMB), ensuring a secure network environment against unauthorized access.
- Efficient power management**
With a total PoE budget of 750 W, this switch can power numerous PoE devices, optimizing energy usage with support for both PoE+ and PoE++ devices.
- Easy management**
Manageable via various protocols including SNMP, RMON, and HTTP/HTTPS, offering flexibility in network management and monitoring for reduced downtime and improved network performance.

Main specifications

Product Description	TP-Link Omada SG3452XMPP V1.8 - switch - 48 ports - Managed - rack-mountable
Device Type	Switch - 48 ports - L2+ - Managed
Enclosure Type	Rack-mountable
Subtype	Gigabit Ethernet
Ports	40 x 10/100/1000 (PoE+) + 8 x 10/100/1000 (PoE++) + 4 x 10Gb Ethernet SFP+
Power Over Ethernet (PoE)	PoE++
PoE Budget	750 W
Performance	Switching capacity: 176 Gbps Packet forwarding rate: 130.9 Mpps Packet buffer size: 12 Mbit
Capacity	Priority queues: 8 IPv6 interfaces: 128 IPv4 interfaces: 128 IPv4 routes (static): 48 IPv6 routes (static): 48 Static ARP entries: 128 ARP entries: 512 IGMP groups: 1000 Layer 2 multicast filtering profiles: 256 Layer 2 multicast filtering entries per profile: 16 VLAN groups: 4000 MAC VLAN address entries: 30 VLAN templates: 16 IP MAC port binding entries: 512 IPv4 source guard entries: 100 IPv6 MAC port binding entries: 100 Port security entries: 64
MAC Address Table Size	16K entries
Jumbo Frame Support	9KB
Routing Protocol	Static IP routing, STP, L2PT, PPPoE, MLD, MLDv2, IGMP, IGMPv2, IGMPv3, RSTP, MSTP
Remote Management Protocol	CLI, SNMP, RMON, OAM, DHCP, TCP/IP, UDP, HTTP, HTTPS, ICMP, Telnet, SSH, SSH-2, TFTP, MIB, SNMP 1, SNMP 2c, SNMP 3, RMON 1, RMON 2, RMON 3, RMON 9, BOOTP, RSTP, IPv4, IPv6

Features	VLAN support, ACL support, QoS, IGMP snooping, DDM, ERPS, metal housing, ZTP, security lock slot (cable lock sold separately), CoS, DSCP prioritisation, SP, WRR, bandwidth control, rate limit, proxy ARP, ARP support, DHCP server, DHCP relay, Link Aggregation, loopback detection, flow control, port mirroring, MVR, MLD snooping, automatic device discovery, firmware upgradable, schedule reboot, ISP, DLDP support, sFlow, tagged VLAN, Private VLAN, Voice VLAN, ToS, IPMB, DHCP snooping, ARP inspection, DoS protection, Broadcast Storm Control, Multicast Storm Control, Unicast Storm Control, MAB, Guest VLAN, AAA, port isolation, NDP, path MTU discovery, LLDP-MED, Cable Diagnostics Function, EEE, SNMP support, 802.1x authentication, queue scheduling support, system log, Port Security, GVRP, BPDU Filter, HOL Blocking Prevention, fast leave
Compliant Standards	IEEE 802.3at, IEEE 802.3af, IEEE 802.3bt, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ah, IEEE 802.1Q, IEEE 802.1ab (LLDP), IEEE 802.1x, IEEE 802.1s, IEEE 802.1D, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.3i, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.3u, IEEE 802.3z
Power	AC 100-240 V (50/60 Hz)
Dimensions (WxDxH)	44 cm x 33 cm x 4.4 cm
System Requirements	Microsoft Windows 98SE/2000/NT/XP/Vista/7/8/8.1/10/11, Apple MacOS, Novell NetWare, UNIX, Linux

Extended specification

General

Device Type	Switch - 48 ports - L2+ - Managed
Enclosure Type	Rack-mountable
Subtype	Gigabit Ethernet
Ports	40 x 10/100/1000 (PoE+) + 8 x 10/100/1000 (PoE++) + 4 x 10Gb Ethernet SFP+
Power Over Ethernet (PoE)	PoE++
PoE Budget	750 W
Performance	Switching capacity: 176 Gbps ¦ Packet forwarding rate: 130.9 Mpps ¦ Packet buffer size: 12 Mbit
Capacity	Priority queues: 8 ¦ IPv6 interfaces: 128 ¦ IPv4 interfaces: 128 ¦ IPv4 routes (static): 48 ¦ IPv6 routes (static): 48 ¦ Static ARP entries: 128 ¦ ARP entries: 512 ¦ IGMP groups: 1000 ¦ Layer 2 multicast filtering profiles: 256 ¦ Layer 2 multicast filtering entries per profile: 16 ¦ VLAN groups: 4000 ¦ MAC VLAN address entries: 30 ¦ VLAN templates: 16 ¦ IP MAC port binding entries: 512 ¦ IPv4 source guard entries: 100 ¦ IPv6 MAC port binding entries: 100 ¦ Port security entries: 64
MAC Address Table Size	16K entries
Jumbo Frame Support	9KB
Routing Protocol	Static IP routing, STP, L2PT, PPPoE, MLD, MLDv2, IGMP, IGMPv2, IGMPv3, RSTP, MSTP
Remote Management Protocol	CLI, SNMP, RMON, OAM, DHCP, TCP/IP, UDP, HTTP, HTTPS, ICMP, Telnet, SSH, SSH-2, TFTP, MIB, SNMP 1, SNMP 2c, SNMP 3, RMON 1, RMON 2, RMON 3, RMON 9, BOOTP, RSTP, IPv4, IPv6
Encryption Algorithm	SSL 3.0, TLS 1.2
Authentication Method	TACACS+, RADIUS, Secure Shell (SSH), Secure Shell v.2 (SSH2)
Features	VLAN support, ACL support, QoS, IGMP snooping, DDM, ERPS, metal housing, ZTP, security lock slot (cable lock sold separately), CoS, DSCP prioritisation, SP, WRR, bandwidth control, rate limit, proxy ARP, ARP support, DHCP server, DHCP relay, Link Aggregation, loopback detection, flow control, port mirroring, MVR, MLD snooping, automatic device discovery, firmware upgradable, schedule reboot, ISP, DLDP support, sFlow, tagged VLAN, Private VLAN, Voice VLAN, ToS, IPMB, DHCP snooping, ARP inspection, DoS protection, Broadcast Storm Control, Multicast Storm Control, Unicast Storm Control, MAB, Guest VLAN, AAA, port isolation, NDP, path MTU discovery, LLDP-MED, Cable Diagnostics Function, EEE, SNMP support, 802.1x authentication, queue scheduling support, system log, Port Security, GVRP, BPDU Filter, HOL Blocking Prevention, fast leave
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RAM	512 MB
Flash Memory	32 MB
Built-in Devices	3 x fans
Status Indicators	Power, system, PoE max, fan, link/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 ¦ 2 x 10GBase-X SFP+ ¦ 1 x console RJ-45 ¦ 1 x console (micro-USB)
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Miscellaneous

Included Accessories	Rubber feet
Rack Mounting Kit	Included
Compliant Standards	FCC, RoHS

Power

Power Device	Internal power supply
Voltage Required	AC 100-240 V (50/60 Hz)
Power Consumption Stand by	26.5 Watt

Software / System Requirements

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

Min Operating Temperature	0 °C
Max Operating Temperature	40 °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

What's in the box

TP-Link Omada SG3452XMPP V1.8

Rubber feet

Rack mounting kit

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet