

TP-Link Omada SG2452LP V1.8 (SG2452LP)

TP-Link Omada SG2452LP V1.8 - Switch - smart - 32 x 10/100/1000 (PoE+) + 16 x 10/100/1000 + 4 x Gigabit Ethernet SFP - rack-mountable - PoE+ (230 W)



The TP-Link Omada SG2452LP V1.8 switch is engineered to meet the demands of modern networks, offering a blend of performance, security, and manageability. With 52 ports, including 32 that support Power over Ethernet Plus (PoE+) for powering devices directly through the network cable, and 4 Gigabit Ethernet SFP slots for high-speed connections, this switch is ideal for businesses looking to expand their network infrastructure. Security is a priority, with features like 802.1x authentication and Access Control List (ACL) support ensuring network integrity. Management is simplified through support for SNMP, RMON, and HTTP, allowing for comprehensive monitoring and control. Performance is robust, with a 104 Gbps switching capacity and a 77.37 Mpps packet forwarding rate to handle high traffic volumes efficiently. Additionally, its fanless design and durable metal housing make it a reliable choice for any business environment.

Key Selling Points

- 52 ports including 32 PoE+ and 4 Gigabit Ethernet SFP slots for versatile connectivity
- Advanced security with 802.1x authentication, ACL support, and IP/Mac/Port Binding
- Efficient network management with SNMP, RMON, HTTP protocols, and QoS and VLAN support
- High switching capacity of 104 Gbps and packet forwarding rate of 77.37 Mpps for robust performance
- Fanless design in a durable metal housing for silent operation and enhanced reliability

Product Features

- Enhanced connectivity**
With 52 ports, including 32 PoE+ capable of delivering 30 W per port, and 4 Gigabit Ethernet SFP slots, this switch offers extensive connectivity options for a variety of devices and applications.
- Robust security features**
Features like 802.1x authentication, Access Control List (ACL) support, and IP/Mac/Port Binding ensure your network remains secure against unauthorized access and threats.
- Comprehensive network management**
Manageable via various protocols including SNMP, RMON, and HTTP, and equipped with features like Quality of Service (QoS) and VLAN support, this switch allows for efficient network monitoring and management.
- High performance**
Boasting a switching capacity of 104 Gbps and a packet forwarding rate of 77.37 Mpps, this switch is designed to handle high volumes of traffic, ensuring smooth data transmission across the network.
- Durable and reliable**
Housed in a sturdy metal case with a fanless design for silent operation, and an impressive MTBF of 349,554 hours, this switch is built to last in demanding environments.

Main specifications

Product Description	TP-Link Omada SG2452LP V1.8 - switch - 52 ports - smart - rack-mountable
Device Type	Switch - 52 ports - smart
Enclosure Type	Rack-mountable
Subtype	Gigabit Ethernet
Ports	32 x 10/100/1000 (PoE+) + 16 x 10/100/1000 + 4 x Gigabit Ethernet SFP
Power Over Ethernet (PoE)	PoE+
PoE Budget	230 W
Performance	Switching capacity: 104 Gbps Packet forwarding rate: 77.37 Mpps Packet buffer size: 12 Mbit
Capacity	Priority queues: 8 IPv6 interfaces: 32 IPv4 interfaces: 32 Static routes: 32 Multicast groups: 511 Multicast filters: 256 Layer 2 multicast filtering entries per profile: 16 Port security entries: 64 VLAN groups: 4000 MAC VLAN address entries: 12 IPv4 source guard entries: 253 IPv6 source guard entries: 183 IPv6 MAC port binding entries: 512
MAC Address Table Size	16K entries
Jumbo Frame Support	9KB
Routing Protocol	Static IP routing, STP, MLD, RSTP, MSTP, IGMP, IGMPv2, IGMPv3, MLDv2
Remote Management Protocol	CLI, SNMP, RMON, DHCP, HTTP, HTTPS, ICMP, TCP/IP, UDP, Telnet, SSH, TFTP, MIB, RMON 1, RMON 2, RMON 3, RMON 9, SNMP 1, SNMP 2c, SNMP 3, BOOTP, RSTP

Features	Fanless, VLAN support, ACL support, QoS, IGMP snooping, metal housing, reset button, security lock slot (cable lock sold separately), auto-negotiation, auto-uplink (auto MDI/MDI-X), CoS, DSCP prioritisation, SP, WRR, bandwidth control, rate limit, Broadcast Storm Control, Multicast Storm Control, Unicast Storm Control, Unknown Storm Control, DHCP server, DHCP relay, proxy ARP, Link Aggregation, loopback detection, flow control, port mirroring, DLDP support, LLDP-MED, MVR, Multicast filtering function, automatic device discovery, firmware upgradable, network monitoring, schedule reboot, VLAN Tagging, GVRP, Voice VLAN, AAA, IPMB, 802.1x authentication, MAB, Guest VLAN, DHCP snooping, DHCPv6 snooping, ARP inspection, ND detection, DoS protection, dynamic IP mode, Port Security, client isolation, path MTU discovery, bridge mode, ZTP, SNMP trap, Cable Diagnostics Function, EEE, SNTP support, store and forward
Compliant Standards	IEEE 802.3af, IEEE 802.3at, IEEE 802.1p, IEEE 802.3x, IEEE 802.1ab (LLDP), IEEE 802.1Q, IEEE 802.1x, IEEE 802.1D, IEEE 802.1w, IEEE 802.1s, IEEE 802.3ad (LACP), IEEE 802.3ab, IEEE 802.3i, 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 XP / Vista / 7 / 8 / 8.1 / 10 / 11, Apple MacOS, Novell NetWare, UNIX, Linux

Extended specification

General

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MAC Address Table Size	16K entries
Jumbo Frame Support	9KB
Routing Protocol	Static IP routing, STP, MLD, RSTP, MSTP, IGMP, IGMPv2, IGMPv3, MLDv2
Remote Management Protocol	CLI, SNMP, RMON, DHCP, HTTP, HTTPS, ICMP, TCP/IP, UDP, Telnet, SSH, TFTP, MIB, RMON 1, RMON 2, RMON 3, RMON 9, SNMP 1, SNMP 2c, SNMP 3, BOOTP, RSTP
Encryption Algorithm	SSL 3.0, TLS 1.2
Authentication Method	PAP, EAP-MD5, Secure Shell (SSH), Secure Shell v.2 (SSH2)
Features	Fanless, VLAN support, ACL support, QoS, IGMP snooping, metal housing, reset button, security lock slot (cable lock sold separately), auto-negotiation, auto-uplink (auto MDI/MDI-X), CoS, DSCP prioritisation, SP, WRR, bandwidth control, rate limit, Broadcast Storm Control, Multicast Storm Control, Unicast Storm Control, Unknown Storm Control, DHCP server, DHCP relay, proxy ARP, Link Aggregation, loopback detection, flow control, port mirroring, DLDP support, LLDP-MED, MVR, Multicast filtering function, automatic device discovery, firmware upgradable, network monitoring, schedule reboot, VLAN Tagging, GVRP, Voice VLAN, AAA, IPMB, 802.1x authentication, MAB, Guest VLAN, DHCP snooping, DHCPv6 snooping, ARP inspection, ND detection, DoS protection, dynamic IP mode, Port Security, client isolation, path MTU discovery, bridge mode, ZTP, SNMP trap, Cable Diagnostics Function, EEE, SNTP support, store and forward
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Status Indicators	Power, system, link/activity, PoE max

Expansion / Connectivity

Interfaces	32 x 10/100/1000 Base-T (PoE+) RJ-45 30 W 16 x 10/100/1000 Base-T RJ-45 4 x 1000Base-X SFP
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Miscellaneous

Included Accessories	Rubber feet, power cord
Rack Mounting Kit	Included

<i>MTBF</i>	<i>349,554 hours</i>
<i>Compliant Standards</i>	<i>FCC, RoHS</i>

Power

<i>Power Device</i>	<i>Internal power supply</i>
<i>Voltage Required</i>	<i>AC 100-240 V (50/60 Hz)</i>
<i>Power Consumption Stand by</i>	<i>21.5 Watt</i>

Software / System Requirements

<i>OS Required</i>	<i>Microsoft Windows XP / Vista / 7 / 8 / 8.1 / 10 / 11, Apple MacOS, Novell NetWare, UNIX, Linux</i>
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Environmental Parameters

<i>Min Operating Temperature</i>	<i>0 °C</i>
<i>Max Operating Temperature</i>	<i>40 °C</i>
<i>Humidity Range Operating</i>	<i>10 - 90% RH (non-condensing)</i>
<i>Min Storage Temperature</i>	<i>-40 °C</i>
<i>Max Storage Temperature</i>	<i>70 °C</i>
<i>Humidity Range Storage</i>	<i>5 - 90% RH (non-condensing)</i>

Dimensions & Weight

<i>Width</i>	<i>44 cm</i>
<i>Depth</i>	<i>33 cm</i>
<i>Height</i>	<i>4.4 cm</i>

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