SG3428MP V6.30

Omada Access 28-Port Gigabit Switch with 24-Port PoE+

- 24× Gigabit RJ45 PoE+ ports and 4× Gigabit SFP slots
- 384 W total PoE budget with up to 30 W PoE output per port*
- Centralized cloud management via the web or the Omada app†

- Static Routing helps route internal traffic for higher efficiency
- VLAN, ACL, QoS, IGMP Snooping, OAM, and DDM
- ERPS supports rapid protection and recovery in a ring topology
- Durable metal casing and rack-mountable design

Learn more about Omada Cloud SDN ›

Learn more about Omada PoE technology ›

Highlights In the Box Build Features

HARDWARE FEATURES

Interface	• 24× 10/100/1000 Mbps RJ45 PoE+ Ports • 4× Gigabit SFP Slots • 1× RJ45 Console Port • 1× Micro-USB Console Port
Fan Quantity	2
Physical Security Lock	√
Power Supply	100-240 V~50/60 Hz
PoE Ports (RJ45)	• Standard: 802.3at/af compliant • PoE+ Ports: 24 Ports (up to 30 W PoE Output per Port) • Power Budget: 384 W* • Fast PoE & Perpetual PoE
Dimensions (W x D x H)	17.3×13.0×1.7 in (440×330×44 mm)
Surge Protection	±6 kV
Mounting	Rack Mountable
Max. Power Consumption	• 478.6W (110 V/60 Hz @ 25 °C) (with 384 W PD connected) • 463.7 W (220 V/50 Hz @ 25 °C) (with 384 W PD connected)
Max. Heat Dissipation	• 1632.03 BTU/hr (110 V/60 Hz @ 25 °C) (with 384 W PD connected) • 1581.11 BTU/hr (220 V/50 Hz @ 25 °C) (with 384 W PD connected)

PERFORMANCE

Packet Buffer Memory	12 Mbit
Jumbo Frame	9 KB
Switching Capacity	56 Gbps
Packet Forwarding Rate	41.66 Mpps
MAC Address Table	16K

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: QoS remark (802.1P Remark, DSCP Remark)
L2 and L2+ Features	• 128 IP Interfaces: Support IPv4/IPv6 Interface • Static Routing: 48 IPv4/IPv6 Static Routes • Static ARP: 128 static entries • 512 ARP Entries • Proxy ARP • Gratuitous ARP • DHCP Server • DHCP Relay: DHCP Interface Relay, DHCP VLAN Relay • DHCP L2 Relay • Link Aggregation • Spanning Tree Protocol • Loopback Detection • 802.3x Flow Control • Mirroring • Device Link Detect Protocol (DLDP)
L2 Multicast	• Supports 4000 (IPv4, IPv6) IGMP groups • IGMP Snooping • IGMP Authentication • Multicast VLAN Registration (MVR)

SOFTWARE FEATURES

	• MLD Snooping • Multicast Filtering: 256 profiles and 16 entries per profile
Advanced Features	• Automatic Device Discovery† • Batch Configuration† • Batch Firmware Upgrading† • Intelligent Network Monitoring† • Abnormal Event Warnings† • Unified Configuration† • Reboot Schedule† **ISP Features****: • L2PT (Layer 2 Protocol Tunneling) • Device Link Detect Protocol (DLDP) • PPPoE ID Insertion • ERPS • 802.3ah Ethernet Link OAM • DDM • sFlow
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 applies 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 - ND Snooping - IPv6 Source Guard: 100 Entries • DoS Defend • DHCP Filter • Static/Dynamic Port Security: Up to 64 MAC addresses per port • Broadcast/Multicast/Unicast Storm Control: kbps/ratio/pps control mode • 802.1X - Port-based authentication - Mac-base authentication - VLAN Assignment - MAB - Guest VLAN - Radius authentication and accountability support • 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
MIBs	• MIB II (RFC1213) • Interface MIB (RFC2233) • P/Q-Bridge MIB (RFC2674) • Radius Accounting Client MIB (RFC2620) • Radius Authentication Client MIB (RFC2618) • Remote Ping, Traceroute MIB (RFC2925) • Support TP-Link private MIBs

SOFTWARE FEATURES	
	• RMON MIB (RFC2819) • RMON2 MIB (RFC2021)

MANAGEMENT FEATURES	
Omada App	Yes. Requiring the use of Omada Hardware Controller, Omada Cloud-Based Controller, or Omada Software Controller.
Centralized Management	• Omada Cloud-Based Controller (Requires built-in version 5.15.22 or later) • Omada Hardware Controller (Requires built-in version 5.15.20 or later) • Omada Software Controller (Requires built-in version 5.15.20 or later)
Cloud Access	Yes. Requiring the use of Omada Hardware Controller, Omada Cloud-Based Controller, or Omada Software Controller.
Zero-Touch Provisioning	Yes. Requiring the use of Omada Cloud-Based Controller.
Management Features	• Web-based GUI • Command Line Interface (CLI) through console port, telnet • SNMPv1/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

OTHERS	
Certification	CE, FCC, RoHS
Package Content	• SG3428MP Switch • Power Cord • Console Cable • Mounting Brackets • Rubber Feet • Screws • Installation Guide
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10/11, MAC® OS, NetWare®, UNIX® or Linux.
Environment	• Operating Temperature: -5 °C–45 °C (23 °F–113 °F) • Storage Temperature: -40 °C–70 °C (-40 °F–158 °F) • Operating Humidity: 10%–90% RH non-condensing • Storage Humidity: 5%–90% RH non-condensing

For additional version information, please go to the support page.

†These functions require the use of the Omada SDN Controller. Zero-Touch Provisioning requires the use of the Omada Cloud-Based Controller. Go to the Omada Cloud-Based Controller Product List to find all the models supported by the Omada Cloud-Based Controller.

*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.

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

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