

# Omada Switch | Datasheet

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## SG2210MP

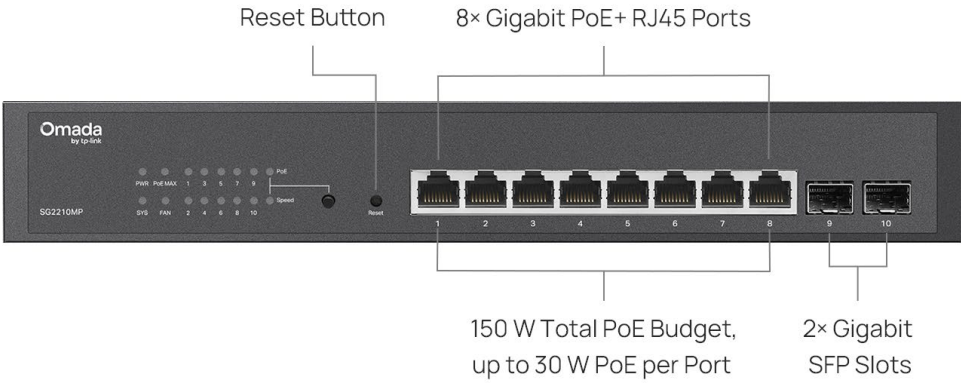
Omada Access 10-Port Gigabit Switch with 8-Port PoE+



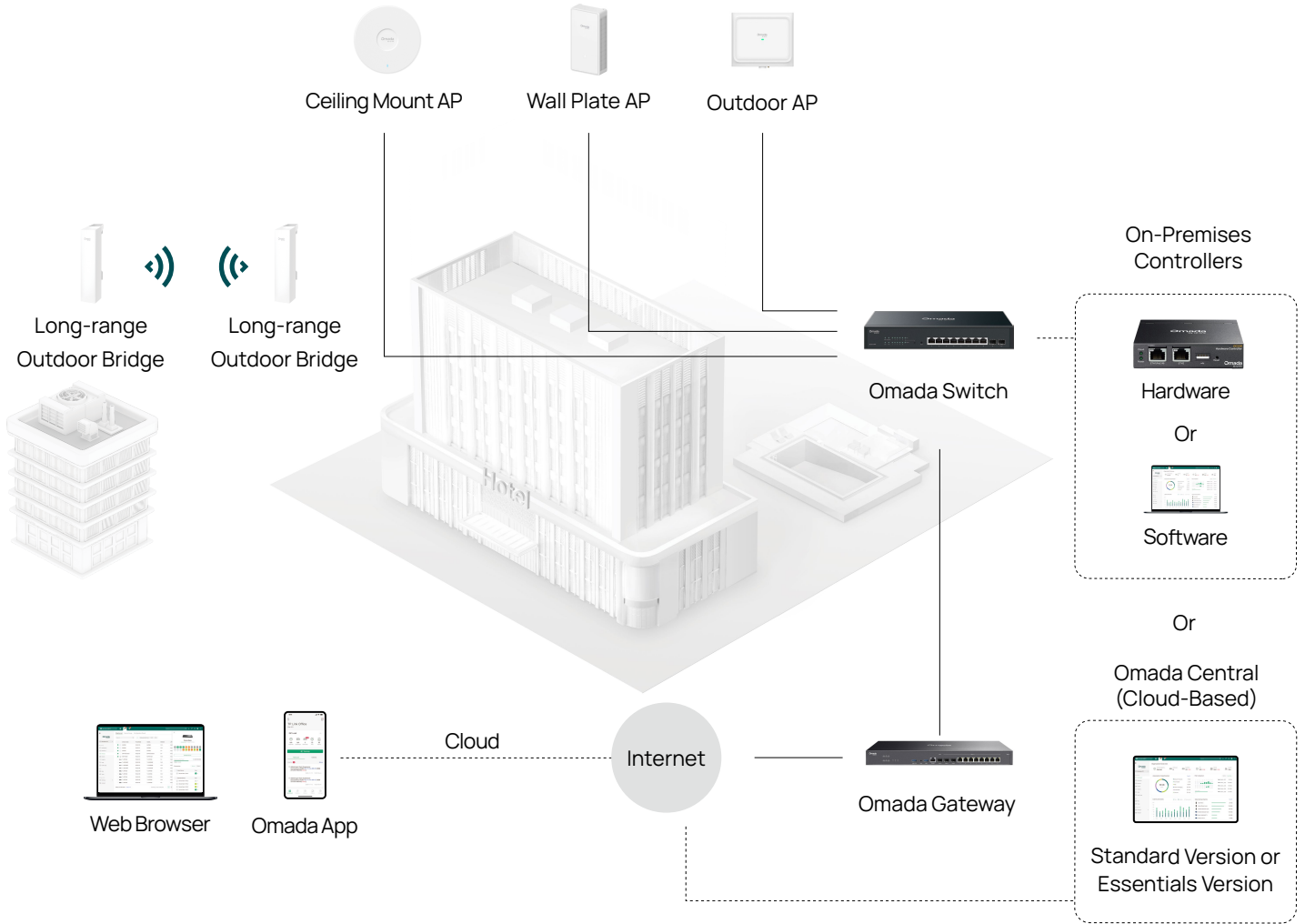
## Highlights

- 8× Gigabit 802.3af/at PoE+ ports and 2× Gigabit SFP slots
- 150 W total PoE budget with up to 30 W PoE output per port\*
- Centralized cloud management via the web or the Omada app†
- Standalone management via web, CLI, SNMP, and RMON
- Static Routing helps route internal traffic for higher efficiency
- VLAN, ACL, QoS, IGMP Snooping and DDM
- Durable metal casing and desktop/rack mounting design

# Product Picture



# Omada Solution



Hassle-Free Cloud or On-Premises Controllers



Multi-Site Cloud Management



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



Intelligent Monitoring

# Specifications

Hardware Features & Performance			
	Model	SG2210MP	
General	Interface	8 × 10/100/1000Mbps RJ45 Ports 2 × Gigabit SFP Slots	
	Flash	32 MB	
	DRAM	256 MB	
	Port Standard	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol IEEE 802.3i:10BASE-T Ethernet IEEE 802.3u:100BASE-X Fast Ethernet IEEE 802.3ab:1000BASE-T Gigabit Ethernet IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber)	
PoE	PoE Standard	802.3af/at	
	PoE Ports	8, up to 30 W per port	
	PoE Power Budget	150 W	
	Fast PoE	YES	
	Perpetual PoE	YES	
Performance	Switching Capacity	20 Gbps	
	Packet Forwarding Rate	14.88 Mpps	
	MAC Address Table	8K	
	Packet Buffer	4.1 Mbit	
	Transmission Method	Store and Forward	
	Number of IP Interfaces	32	
	Number of Static Routers	32 (IPv4, IPv6)	
	Jumbo Frame	9 KB	
Physical & Environment	Power Supply	100-240V AC, 50/60Hz	
	Max Power Consumption	167.9 W (220 V/50 Hz @ 25 °C) (with 150 W PD connected) 172.7 W (110 V/60 Hz @ 25 °C) (with 150 W PD connected)	
	Standby Power Consumption	5.9 W (220 V/50 Hz) 7.1 W (110 V/60 Hz)	
	Max Heat Dissipation	570.86 BTU/hr (220 V/50 Hz @ 25 °C) (with 150 W PD connected) 587.18 BTU/hr (110 V/60 Hz @ 25 °C) (with 150 W PD connected)	
	Noise	Max	24.4 dBA @ 1 m (100% load, 50°C ambient) 24.4 dBA @ 1 m (100% load, 25°C ambient)
		Typical	24.4 dBA @ 1 m (100% system load, 80% PoE load, 25°C ambient)
		Min	Fanless mode (PoE load < 30 W, 25°C ambient)
	Fan Quantity	1	
	Surge Protection	Service port: ±6 kV in common mode	
	ESD Protection	Air: ±8.0 kV, Contact: ±4.0 kV	
	MTBF	642847 h @ 25 °C	
	Dimensions (W x D x H)	11.6 × 7.1 × 1.7 in (294 × 180 × 44 mm)	
	Net Weight	1.7 kg (3.7 lbs)	
	Installation	Desktop/Rack-Mounting	
	Operating Temperature	-5 °C to 50 °C (23 °F to 122 °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	FCC, RoHS		

## Software Features<sup>^</sup>

Model	SG2210MP	
SDN Support	<ul style="list-style-type: none"> <li>• Support Omada Hardware Controller, Software Controller</li> <li>• Automatic Device Discovery</li> <li>• Batch Configuration</li> <li>• Batch Firmware Upgrading</li> </ul>	<ul style="list-style-type: none"> <li>• Intelligent Network Monitoring</li> <li>• Abnormal Event Warnings</li> <li>• Unified Configuration</li> <li>• Reboot Schedule</li> </ul>
L3 Features	<ul style="list-style-type: none"> <li>• 32 IPv4/IPv6 Interfaces</li> <li>• Static Routing                             <ul style="list-style-type: none"> <li>- 32 IPv4/IPv6 Static Routes</li> </ul> </li> <li>• DHCP Server</li> <li>• DHCP Relay                             <ul style="list-style-type: none"> <li>- DHCP Interface Relay</li> <li>- DHCP VLAN Relay</li> </ul> </li> <li>• DHCP L2 Relay</li> </ul>	<ul style="list-style-type: none"> <li>• Static ARP</li> <li>• Proxy ARP</li> <li>• Gratuitous ARP</li> </ul>
L2 Features	<ul style="list-style-type: none"> <li>• Link Aggregation                             <ul style="list-style-type: none"> <li>- Static link aggregation</li> <li>- 802.3ad LACP</li> <li>- Up to 8 aggregation groups and up to 8 ports per group</li> </ul> </li> <li>• Spanning Tree Protocol                             <ul style="list-style-type: none"> <li>- 802.1d STP</li> <li>- 802.1w RSTP</li> <li>- 802.1s MSTP</li> <li>- STP Security: TC Protect, BPDU Filter, BPDU Protect, Root Protect</li> </ul> </li> <li>• Loopback Detection                             <ul style="list-style-type: none"> <li>- Port based</li> <li>- VLAN based</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Flow Control                             <ul style="list-style-type: none"> <li>- 802.3x Flow Control</li> </ul> </li> <li>• Mirroring                             <ul style="list-style-type: none"> <li>- Port Mirroring</li> <li>- CPU Mirroring</li> <li>- One-to-One</li> <li>- Many-to-One</li> <li>- Flow-Based</li> <li>- Ingress/Egress/Both</li> </ul> </li> <li>• Device Link Detect Protocol (DLDP)</li> <li>• 802.1ab LLDP/ LLDP-MED</li> </ul>
L2 Multicast	<ul style="list-style-type: none"> <li>• Supports 511 (IPv4, IPv6) IGMP groups</li> <li>• IGMP Snooping                             <ul style="list-style-type: none"> <li>- IGMP v1/v2/v3 Snooping</li> <li>- Fast Leave</li> <li>- IGMP Snooping Querier</li> <li>- Static Group Config</li> </ul> </li> <li>• Multicast VLAN Registration (MVR)</li> <li>• Multicast Filtering</li> </ul>	<ul style="list-style-type: none"> <li>• Multicast Listener Discovery (MLD) Snooping                             <ul style="list-style-type: none"> <li>- MLD v1/v2 Snooping</li> <li>- Fast Leave</li> <li>- MLD Snooping Querier</li> <li>- Static Group Config</li> </ul> </li> <li>• Limited IP Multicast                             <ul style="list-style-type: none"> <li>- 256 profiles and 16 entries per profile</li> </ul> </li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• VLAN Group                             <ul style="list-style-type: none"> <li>- Max 4K VLAN Groups</li> </ul> </li> <li>• 802.1Q Tagged VLAN</li> <li>• MAC VLAN (12 entries)</li> </ul>	<ul style="list-style-type: none"> <li>• Protocol VLAN (IEEE 802.1v)</li> <li>• GVRP</li> <li>• Voice VLAN</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• 802.1p CoS/DSCP priority</li> <li>• 8 priority queues</li> <li>• Priority Schedule Mode                             <ul style="list-style-type: none"> <li>- Strict Priority (SP)</li> <li>- Weighted Round Robin (WRR)</li> </ul> </li> <li>• Queue Weight Config</li> </ul>	<ul style="list-style-type: none"> <li>• Bandwidth Control                             <ul style="list-style-type: none"> <li>- Port/Flow based Rating Limit</li> </ul> </li> <li>• Smoother Performance</li> <li>• Storm Control                             <ul style="list-style-type: none"> <li>- Multiple Control Modes (kbps/ratio)</li> <li>- Broadcast/Multicast/Unknown-Unicast Control</li> </ul> </li> </ul>

## Software Features<sup>^</sup>

Model	SG2210MP	
ACL	<ul style="list-style-type: none"> <li>• Support up to 230 entries</li> <li>• Time-Range               <ul style="list-style-type: none"> <li>- Time Slice</li> <li>- Week Time-Range</li> <li>- Absolute Time-Range</li> <li>- Holiday</li> </ul> </li> <li>• Time-based ACL</li> <li>• MAC ACL               <ul style="list-style-type: none"> <li>- Source MAC</li> <li>- Destination MAC</li> </ul> </li> <li>- VLAN ID</li> <li>- User Priority</li> <li>- Ether Type</li> <li>• IP ACL               <ul style="list-style-type: none"> <li>- Source IP</li> <li>- Destination IP</li> <li>- IP Protocol</li> <li>- TCP Flag</li> <li>- TCP/UDP Source Port</li> <li>- TCP/UDP Destination Port</li> <li>- DSCP/IP TOS</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• IPv6 ACL</li> <li>• Combined ACL</li> <li>• Rule Operation               <ul style="list-style-type: none"> <li>- Permit/Deny</li> </ul> </li> <li>• Policy Action               <ul style="list-style-type: none"> <li>- Mirror</li> <li>- Rate Limit</li> <li>- Redirect</li> <li>- QoS Remark</li> </ul> </li> <li>• ACL Rules Binding               <ul style="list-style-type: none"> <li>- Port Binding</li> <li>- VLAN Binding</li> </ul> </li> <li>• Actions for flows               <ul style="list-style-type: none"> <li>- Mirror (to supported interface)</li> <li>- Redirect (to supported interface)</li> <li>- Rate Limit</li> <li>- QoS Remark</li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>• Authentication, Authorization, Accounting (AAA)</li> <li>• 802.1X               <ul style="list-style-type: none"> <li>- Port based authentication</li> <li>- MAC (Host) based authentication</li> <li>- Authentication Method includes PAP/EAP-MD5</li> <li>- MAB</li> <li>- Guest VLAN</li> <li>- Support Radius authentication and accountability</li> </ul> </li> <li>• IP/IPv6-MAC Binding               <ul style="list-style-type: none"> <li>- 512 Binding Entries</li> </ul> </li> <li>- DHCP Snooping</li> <li>- DHCPv6 Snooping</li> <li>- Dynamic ARP Inspection (DAI)</li> <li>- ND Detection</li> <li>- ND Snooping</li> <li>• IP Source Guard               <ul style="list-style-type: none"> <li>- 253 Entries</li> <li>- Source IP+Source MAC</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• IPv6 Source Guard               <ul style="list-style-type: none"> <li>- 183 Entries</li> <li>- Source IPv6 Address+Source MAC</li> </ul> </li> <li>• DoS Defend</li> <li>• DHCP Filter</li> <li>• Static/Dynamic/Permanent Port Security               <ul style="list-style-type: none"> <li>- Up to 64 MAC addresses per port</li> </ul> </li> <li>• Broadcast/Multicast/Unicast Storm Control               <ul style="list-style-type: none"> <li>- kbps/ratio control mode</li> </ul> </li> <li>• Port Isolation</li> <li>• Secure web management through HTTPS with SSLv3/TLS 1.2</li> <li>• Secure Command Line Interface (CLI) management with SSHv1/SSHv2</li> <li>• IP/Port/MAC based access control</li> </ul>
IPv6 Support	<ul style="list-style-type: none"> <li>• IPv6 Static Routing and ACL</li> <li>• IPv4/IPv6 Dual Stack</li> <li>• IPv6 Interface</li> <li>• MLD Snooping</li> <li>• IPv6 neighbor discovery (ND)</li> <li>• Path maximum transmission unit (MTU) discovery</li> <li>• Internet Control Message Protocol (ICMP) version 6</li> <li>• TCPv6/UDPv6</li> </ul>	<ul style="list-style-type: none"> <li>• IPv6 applications               <ul style="list-style-type: none"> <li>- DHCPv6 Client</li> <li>- Ping6</li> <li>- Tracert6</li> <li>- Telnet (v6)</li> </ul> </li> <li>- IPv6 SNMP</li> <li>- IPv6 SSH</li> <li>- IPv6 SSL</li> <li>- Http/Https</li> <li>- IPv6 TFTP</li> </ul>

## Software Features<sup>^</sup>

Model	SG2210MP	
Management	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• Command Line Interface (CLI) through telnet</li> <li>• SNMPv1/v2c/v3</li> <li>• SNMP Trap/Inform</li> <li>• RMON (1,2,3,9 groups)</li> <li>• SDM Template</li> <li>• DHCP/BOOTP Client</li> <li>• Dual Image, Dual Configuration</li> </ul>	<ul style="list-style-type: none"> <li>• CPU Monitoring</li> <li>• Cable Diagnostics</li> <li>• IEEE 802.1az Energy Efficient Ethernet (EEE)</li> <li>• SNTP</li> <li>• System Log</li> <li>• Dying Gasp</li> <li>• ONVIF</li> <li>• Digital Diagnostic Monitoring (DDM)</li> </ul>
MIBs	<ul style="list-style-type: none"> <li>• MIB II (RFC1213)</li> <li>• Bridge MIB (RFC1493)</li> <li>• P/Q-Bridge MIB (RFC2674)</li> <li>• Radius Accounting Client MIB (RFC2620)</li> </ul>	<ul style="list-style-type: none"> <li>• Radius Authentication Client MIB (RFC2618)</li> <li>• Remote Ping, Traceroute MIB (RFC2925)</li> <li>• Support TP-Link private MIBs</li> <li>• RMON MIB(RFC1757, rmon 1,2,3,9)</li> </ul>

## Others

Package Content	<ul style="list-style-type: none"> <li>• SG2210MP Switch</li> <li>• Power Cord</li> <li>• Rackmount Kit</li> <li>• Rubber Feet</li> <li>• Installation Guide</li> </ul>
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10/11, MAC® OS, NetWare®, UNIX® or Linux.

# Ordering Information

## Host Switch

Model	Description
SG2210MP	Omada Access 10-Port Gigabit Switch with 8-Port PoE+

## SFP Module

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

## RJ45 SFP Module

Model	Description
SM331T	1000BASE-T RJ45 SFP Module

## MC Series Media Converter

Model	Description
MC220L	Gigabit SFP Media Converter, up to 100 m, chassis mountable
MC210CS	Gigabit Single-Mode Media Converter, up to 20 km, chassis mountable
MC211CS-20	Gigabit WDM Media Converter, up to 20 km, chassis mountable
MC212CS-20	Gigabit WDM Media Converter, up to 20 km, chassis mountable
MC211CS-2	Gigabit WDM Media Converter, up to 2 km, chassis mountable
MC212CS-2	Gigabit WDM Media Converter, up to 2 km, chassis mountable
MC200CM	Gigabit Multi-Mode Media Converter, up to 550 m, chassis mountable

<sup>†</sup>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.

<sup>‡</sup>Some features are available only after upgrading to the latest software version.

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