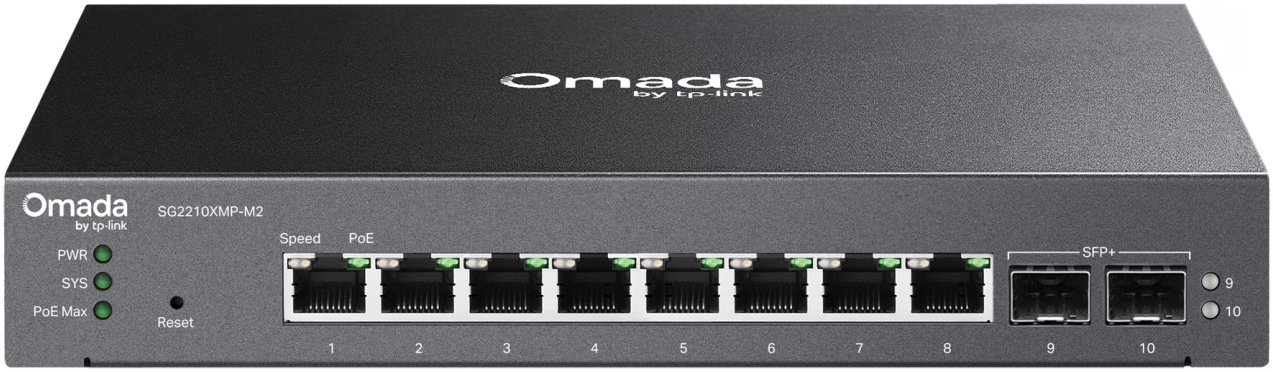
Omada Switch | Datasheet

SG2210XMP-M2

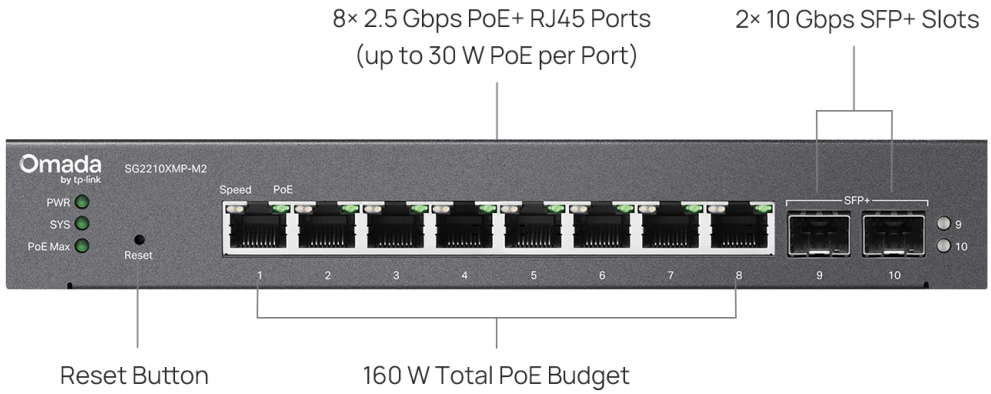
Omada Access Pro 8-Port 2.5G and 2-Port 10GE SFP+ Switch with 8-Port PoE+

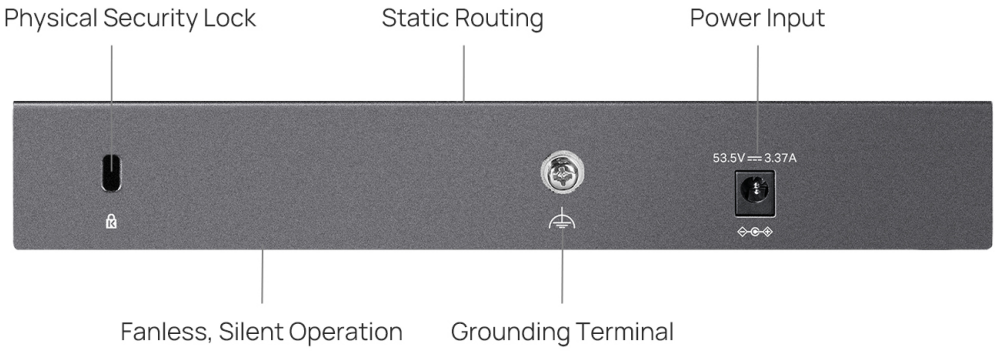


Highlights

- 8× 2.5 Gbps PoE+ ports (Max 30 W per port)
- 2× 10G SFP+ Slots
- 160 W total PoE budget*
- Centralized cloud management via web or the Omada app†
- Supports standalone management
- Static Routing
- Fanless design for quiet operation
- Desktop/Wall-Mounting/Rack Mountable**

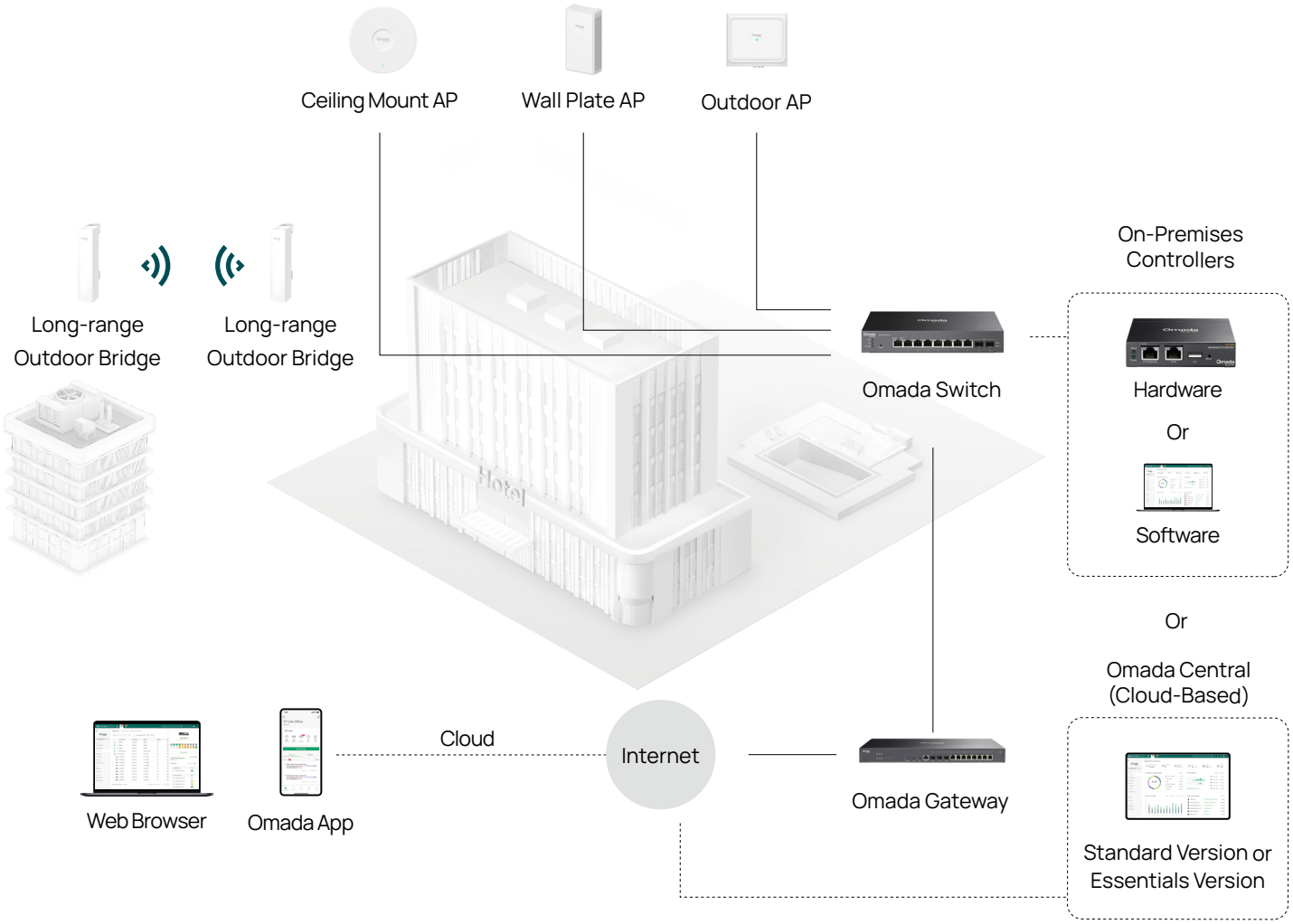
Product Picture







Omada Solution



Hassle-Free Cloud or On-Premises Controllers

Zero-Touch Provisioning (ZTP)†

Multi-Site Cloud Management

Intelligent Monitoring

Specifications

Hardware Features & Performance		
Model		SG2210XMP-M2
General	Interface	8 × 10/100/1000Mbps/2.5Gbps RJ45 Ports 2 × 10Gbps 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 802.3bz:2.5GBASE-T Ethernet IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3ae: 10 Gigabit Ethernet over fiber
PoE	PoE Standard	802.3af/at
	PoE Ports	8, up to 30 W per port
	PoE Power Budget	160 W
	PoE Pinout	Alternative A, 1/2(-) & 3/6(+)
	Perpetual PoE	YES
	Fast PoE	YES
	PoE Extend Mode	YES
Performance	Switching Capacity	80 Gbps
	Packet Forwarding Rate	59.52 Mpps
	MAC Address Table	16K
	Packet Buffer	12 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	53.5 VDC/3.37 A Power Adapter
	Max Power Consumption	193.3 W (220 V/50 Hz @ 25 °C) (with 160 W PD connected) 195.7 W (110 V/60 Hz @ 25 °C) (with 160 W PD connected)
	Standby Power Consumption	15.0 W (220 V/50 Hz) 15.0 W (110 V/60 Hz)
	Max Heat Dissipation	657.19 BTU/hr (220 V/50 Hz @ 25 °C) (with 160 W PD connected) 665.38 BTU/hr (110 V/60 Hz @ 25 °C) (with 160 W PD connected)
	Fan Quantity	Fanless
	Surge Protection	Service port: ±6 kV in common mode
	ESD Protection	Air: ±8 kV, Contact: ±4 kV
	MTBF	275278 h @ 25 °C
	Dimensions (W x D x H)	8.9 × 5.2 × 1.4 in (226 × 131.2 × 35 mm)
	Net Weight	1.13 kg (2.49 lbs)
	Installation	Desktop/Wall-Mounting/Rack Mountable**
	Operating Temperature	-5 ˚C to 40 ˚C (23 ˚F to 104 ˚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	CE, FCC

**Rack-mount kit (RackMount Kit-D226) is not included in the package and must be purchased separately.

***It is recommended to use a maximum of one 10G RJ45 SFP+ module (SM5310-T) at a time

Software Features[Δ]

Model	SG2210XMP-M2	
SDN Support	• Support Omada Hardware Controller, Software Controller • Automatic Device Discovery • Batch Configuration • Batch Firmware Upgrading	• Intelligent Network Monitoring • Abnormal Event Warnings • Unified Configuration • Reboot Schedule
L3 Features	• 32 IPv4/IPv6 Interfaces • Static Routing - 32 IPv4/IPv6 Static Routes • DHCP Server • DHCP Relay - DHCP Interface Relay - DHCP VLAN Relay • DHCP L2 Relay	• Static ARP • Proxy ARP • Gratuitous ARP
L2 Features	• Link Aggregation - Static link aggregation - 802.3ad LACP - Up to 8 aggregation groups and up to 8 ports per group • Spanning Tree Protocol - 802.1d STP - 802.1w RSTP - 802.1s MSTP - STP Security: TC Protect, BPDU Filter, BPDU Protect, Root Protect • Loopback Detection - Port based - VLAN based	• Flow Control - 802.3x Flow Control • Mirroring - Port Mirroring - CPU Mirroring - One-to-One - Many-to-One - Flow-Based - Ingress/Egress/Both • Device Link Detect Protocol (DLDP) • 802.1ab LLDP/ LLDP-MED
L2 Multicast	• Supports 511 (IPv4, IPv6) IGMP groups • IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - Static Group Config • Multicast VLAN Registration (MVR) • Multicast Filtering	• Multicast Listener Discovery (MLD) Snooping - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Static Group Config • Limited IP Multicast - 256 profiles and 16 entries per profile
VLAN	• VLAN Group - Max 4K VLAN Groups • 802.1Q Tagged VLAN • MAC VLAN (12 entries)	• Protocol VLAN (IEEE 802.1v) • Private VLAN (RFC 5517) • GVRP • Voice VLAN
QoS	• 802.1p CoS/DSCP priority • 8 priority queues • Priority Schedule Mode - Strict Priority (SP) - Weighted Round Robin (WRR) • Queue Weight Config	• Bandwidth Control - Port/Flow based Rating Limit • Smoother Performance • Storm Control - Multiple Control Modes (kbps/ratio) - Broadcast/Multicast/Unknown-Unicast Control

Software Features[△]

Model	SG2210XMP-M2	
ACL	• Support up to 230 entries • Time-Range - Time Slice - Week Time-Range - Absolute Time-Range - Holiday • Time-based ACL • MAC ACL - Source MAC - Destination MAC - VLAN ID - User Priority - Ether Type • IP ACL - Source IP - Destination IP - IP Protocol - TCP Flag - TCP/UDP Source Port - TCP/UDP Destination Port - DSCP/IP TOS	• IPv6 ACL • Combined ACL • Rule Operation - Permit/Deny • Policy Action - Mirror - Rate Limit - Redirect - QoS Remark • ACL Rules Binding - Port Binding - VLAN Binding • Actions for flows - Mirror (to supported interface) - Redirect (to supported interface) - Rate Limit - QoS Remark
Security	• Authentication, Authorization, Accounting (AAA) • 802.1X - Port based authentication - MAC (Host) based authentication - Authentication Method includes PAP/EAP-MD5 - MAB - Guest VLAN - CoA & DM - Support Radius authentication and accountability • IP/IPv6-MAC Binding - 512 Binding Entries - DHCP Snooping - DHCPv6 Snooping - Dynamic ARP Inspection (DAI) - ND Detection - ND Snooping • IP Source Guard - 253 Entries - Source IP+Source MAC	• IPv6 Source Guard - 183 Entries - Source IPv6 Address+Source MAC • DoS Defend • DHCP Filter • Static/Dynamic/Permanent Port Security - Up to 64 MAC addresses per port • Broadcast/Multicast/Unicast Storm Control - kbps/ratio control mode • 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 • CPP (Control Plane Policing) • MAC Flapping Detection
IPv6 Support	• IPv6 Static Routing and ACL • IPv4/IPv6 Dual Stack • IPv6 Interface • MLD Snooping • 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

Software Features[△]

Model	SG2210XMP-M2	
Management	• Web-based GUI • Command Line Interface (CLI) through telnet • SNMPv1/v2c/v3 • SNMP Trap/Inform • RMON (1,2,3,9 groups) • SDM Template • DHCP/BOOTP Client • Dual Image, Dual Configuration • CPU Monitoring • Cable Diagnostics • IEEE 802.1az Energy Efficient Ethernet (EEE)	• SNTP • System Log • Dying Gasp • ONVIF • Digital Diagnostic Monitoring (DDM) • IntelliRecover (Controller Mode Only) • Packet Capture • Syslog (UDP/TCP/DTLS/TLS) • DNS Lookup • Remote Access (NAT Traversal, Controller Mode Only)
MIBs	• MIB II (RFC1213) • Bridge MIB (RFC1493) • 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 • RMON MIB(RFC1757, rmon 1,2,3,9)

Others

Package Content	• SG2210XMP-M2 Switch • Power Adapter • Power Cord • Rubber Feet • Installation Guide
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
SG2210XMP-M2	Omada Access Pro 8-Port 2.5G and 2-Port 10GE SFP+ Switch with 8-Port PoE+

SFP/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
SM5110-LR	10GBase-LR SFP+ LC Transceiver, single-mode, LC connector, 1310nm, 10 km
SM5110-SR	10GBase-SR SFP+ LC Transceiver, multi-mode, LC connector, 850nm, 300 m
SM5110LSA-10	10GBase-BX WDM Bi-Directional SFP+ Module, single-mode, LC connector, TX: 1330 nm/RX: 1270 nm, 10 km
SM5110LSB-10	10GBase-BX WDM Bi-Directional SFP+ Module, single-mode, LC connector, TX: 1270 nm/RX: 1330 nm, 10 km

RJ45 SFP/SFP+ Module

Model	Description
SM331T	1000BASE-T RJ45 SFP Module
SM5310-T	10GBASE-T RJ45 SFP+ Module

MC Series Media Converter

Model	Description
MC420L	10G Multi-Gigabit SFP+ Media Converter, up to 100 m, chassis mountable
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

RJ45 SFP/SFP+ Module

Model	Description
SM5220-1M	1 Meter 10G SFP+ Direct Attach Cable
SM5220-3M	3 Meters 10G SFP+ Direct Attach Cable

†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.

△Some features are available only after upgrading to the latest software version.

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