



# Omada Easy Managed Switch | Datasheet

## ES210XPP-M2

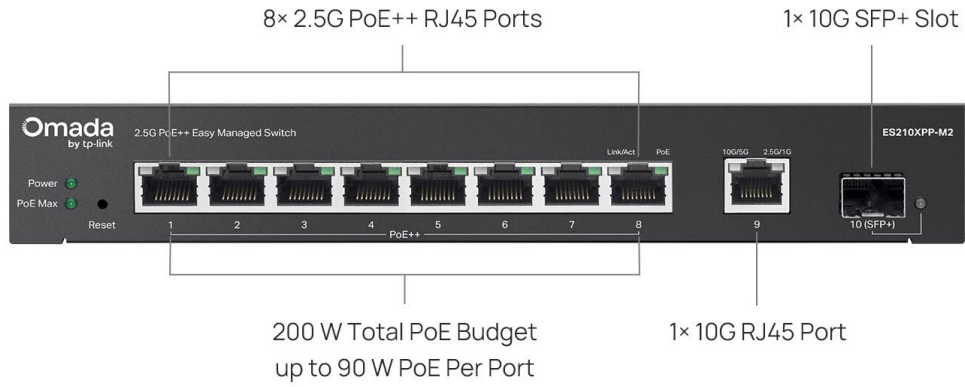
Omada 8-Port 2.5G + 2-Port 10G Easy Managed Switch with 8-Port PoE++



## Highlights

- 8× 2.5 Gbps RJ45 Ports (8× 802.3af/at/bt-compliant PoE++)
- 1× 10 Gbps RJ45 Port, 1× 10 Gbps SFP+ Slot
- 200W PoE Budget, with up to 90W for each PoE port\*
- Easy to Use: Supports plug-and-play for instant connectivity and simple configuration for additional features
- Centralized Cloud Management via the web or the Omada app†
- Automatic Loop Prevention, VLAN, Port Isolation, QoS<sup>Δ</sup>, and IGMP Snooping
- Fanless design for silent operation
- Durable metal casing and desktop/wall mounting design

# Product Pictures



Physical Security Lock

Power Input



Metal Casing

Fanless, Silent Operation

Desktop or Wall Mount



# Specifications

Hardware Features & Performance		
Model	ES210XPP-M2	
General	Interface	8 × 100 Mbps/1 Gbps/2.5 Gbps RJ45 PoE++ Ports 1 × 100 Mbps/1 Gbps/2.5 Gbps/5 Gbps/10 Gbps RJ45 Port 1 × 10 Gbps SFP+ Port
	Flash	64 Mbit
	Port Standard	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol IEEE 802.3u:100BASE-X Fast Ethernet IEEE 802.3ab:1000BASE-T Gigabit Ethernet IEEE 802.3bz: 2.5GBASE-T Ethernet IEEE 802.3an: 10GBASE-T 10G Ethernet IEEE 802.3z: 1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3ae:10GBASE-SR/LR 10G Ethernet (Optical fiber) IEEE 802.3aq:10GBASE-LRM 10G Ethernet (Optical fiber) IEEE 802.3x: Flow Control IEEE 802.1p: Traffic Class Expediting and Dynamic Multicast Filtering IEEE 802.1q: Virtual Bridged Local Area Networks IEEE 802.1ab: Station and Media Access Control Connectivity Discovery (LLDP)
PoE	PoE Standard	802.3af/at/bt
	PoE Ports	8, up to 90 W per port
	PoE Power Budget	200 W
	Fast PoE	YES
	Perpetual PoE	YES
Performance	Switching Capacity	80 Gbps
	Packet Forwarding Rate	59.52 Mpps
	MAC Address Table	16K
	Packet Buffer	5 Mbit
	Transmission Method	Store and Forward
	Jumbo Frame	10 KB
Physical & Environment	Power Supply	AC/DC Adapter (Input: 100-240V AC; Output: 54VDC / 4.16A)
	Standby Power Consumption	5.1 W (220 V/50 Hz) 5.4 W (110 V/60 Hz)
	Max Power Consumption	233.5 W (220 V/50 Hz @ 25 °C) (with 200 W PD connected) 236.4 W (110 V/60 Hz @ 25 °C) (with 200 W PD connected)
	Max Heat Dissipation	794.04 BTU/hr (220 V/50 Hz @ 25 °C) (with 200 W PD connected) 803.83 BTU/hr (110 V/60 Hz @ 25 °C) (with 200 W PD connected)
	MTBF	425260 h @ 25°C
	Dimensions (W x D x H)	8.9 × 5.2 × 1.4 in (226 × 131.2 × 35 mm)
	Net Weight	0.51 kg (1.12 lbs)
	Fan Quantity	Fanless
	Installation	Desktop / Wall Mounting

## Hardware Features & Performance

	Model	ES210XPP-M2
Physical & Environment	Operating Temperature	-10 °C to 40 °C (14 °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
	Surge Protection	±6 kV in common mode for Ethernet Ports ±4 kV in differential mode, ±4 kV in common mode for AC power input port
	ESD Protection	Air: ±8 kV, Contact: ±4 kV
	Certification	CE, FCC, RoHS

## Software Features

Model	ES210XPP-M2
SDN Support	<ul style="list-style-type: none"> <li>• Support Hardware Controller, Software Controller, Cloud-Based Controller</li> <li>• Automatic Device Discovery</li> <li>• Batch Configuration</li> <li>• Batch Firmware Upgrading</li> <li>• Unified Configuration</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>- Up to 6 aggregation groups and up to 4 ports per group</li> </ul> </li> <li>• Loopback Detection</li> <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>- One-to-One</li> <li>- Many-to-One</li> <li>- Ingress/Egress/Both</li> </ul> </li> <li>• Port Statistics <ul style="list-style-type: none"> <li>- Port Mirror Status</li> <li>- Traffic Statistics</li> </ul> </li> <li>• 802.1ab LLDP</li> </ul>
L2 Multicast	<ul style="list-style-type: none"> <li>• IGMP Snooping <ul style="list-style-type: none"> <li>- IGMP v1/v2/v3 Snooping</li> <li>- Fast Leave</li> </ul> </li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• MTU VLAN</li> <li>• Port-Based VLAN</li> <li>• 802.1Q Tag VLAN <ul style="list-style-type: none"> <li>- Max 32 VLAN Groups</li> <li>- 4K VID</li> </ul> </li> </ul>
QoS	<ul style="list-style-type: none"> <li>• 802.1p DSCP Priority</li> <li>• 8 Priority Queues</li> <li>• Priority Schedule Mode <ul style="list-style-type: none"> <li>- WRR (Weighted Round Robin)</li> </ul> </li> <li>• Queue Weight Config</li> <li>• Bandwidth Control <ul style="list-style-type: none"> <li>- Port-Based Rating Limit</li> </ul> </li> <li>• Storm Control <ul style="list-style-type: none"> <li>- Multiple Control Modes (kbps/pps)</li> <li>- Broadcast/Multicast/Unknown-Unicast Control</li> </ul> </li> </ul>
Management Features	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• DHCP Client</li> <li>• Cable Diagnostics</li> </ul>

<sup>†</sup>These functions require the use of the Omada Controller. Zero-Touch Provisioning requires the use of the Omada Cloud-Based Controller (Omada Cloud Standard or Omada Cloud Essentials). Go to the [Omada Cloud-Based Controller \(Omada Cloud Standard\) Product List](#) or [Omada Cloud Essentials Product List](#) to find all the supported models.

<sup>‡</sup>This switch supports PoE Auto Recovery under Standalone Mode (managed separately without a controller) and supports manual PoE Recovery under Controller Mode (centrally managed with a controller).

<sup>△</sup>Port-based/802.1p/DSCP QoS are supported under Standalone Mode.

\*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.