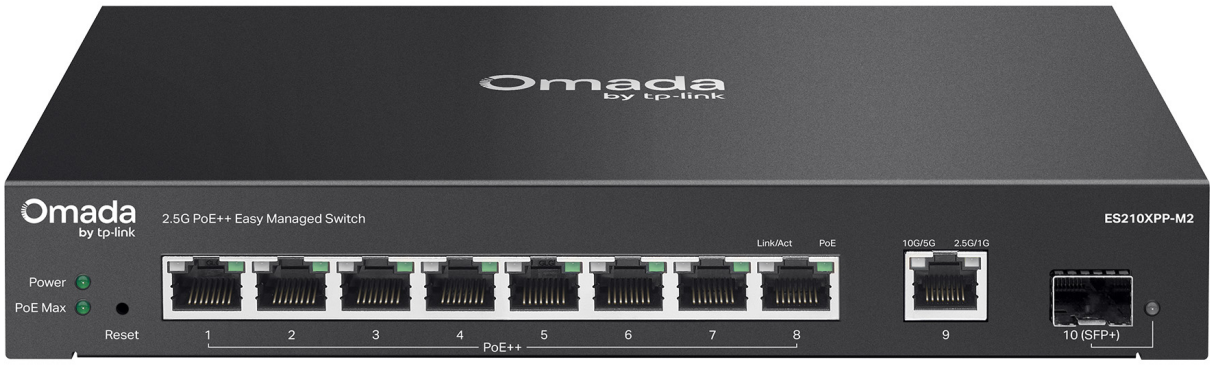
Omada Easy Managed Switch | Datasheet

ES210XPP-M2

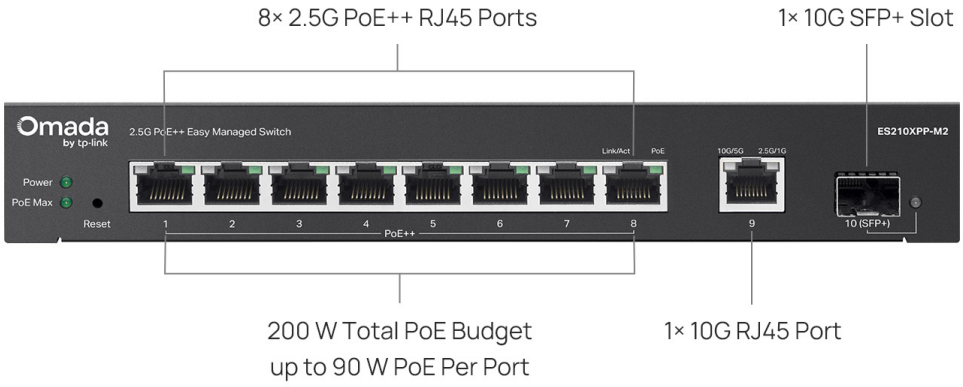
Omada 8-Port 2.5G + 2-Port 10G Easy Managed Switch with 8-Port PoE++



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△, and IGMP Snooping
- Fanless design for silent operation
- Durable metal casing and desktop/wall mounting design

Product Pictures



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
	PoE Pinout	Alternative A + Alternative B (4-pair), pins 1/2 (-), 3/6 (+), 4/5 (+), 7/8 (-)
	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

Software Features

Model	ES210XPP-M2
SDN Support	• Support Hardware Controller, Software Controller, Cloud-Based Controller • Automatic Device Discovery • Batch Configuration • Batch Firmware Upgrading • Unified Configuration
L2 Features	• Link Aggregation - Static Link Aggregation - Up to 2 aggregation groups and up to 4 ports per group • Port Isolation • Loopback Detection • Flow Control - 802.3x Flow Control • Mirroring - Port Mirroring - One-to-One - Many-to-One - Ingress/Egress/Both • Port Statistics - Port Mirror Status - Traffic Statistics • 802.1ab LLDP • IEEE 802.3az EEE
L2 Multicast	• IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave / Report Suppression
VLAN	• 802.1Q Tag VLAN - Max 32 VLAN Groups - 4K VID
QoS	• Port-based/802.1p/DSCP QoS[Δ] • 8 Priority Queues • Priority Schedule Mode - WFQ (Weighted Fair Queuing) • Queue Weight Config • Bandwidth Control - Port-Based Rating Limit • Storm Control - Multiple Control Modes (kbps/pps) - Broadcast/Multicast/Unknown-Unicast Control
Management Features	• HTTPS/HTTP • DHCP Client • Cable Diagnostics • ONVIF**

[†]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.

[‡]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).

*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.

[Δ]Port-based/802.1p/DSCP QoS are supported under Standalone Mode. QoS Rule is supported under Controller mode.

**ONVIF is supported only in Controller mode.

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