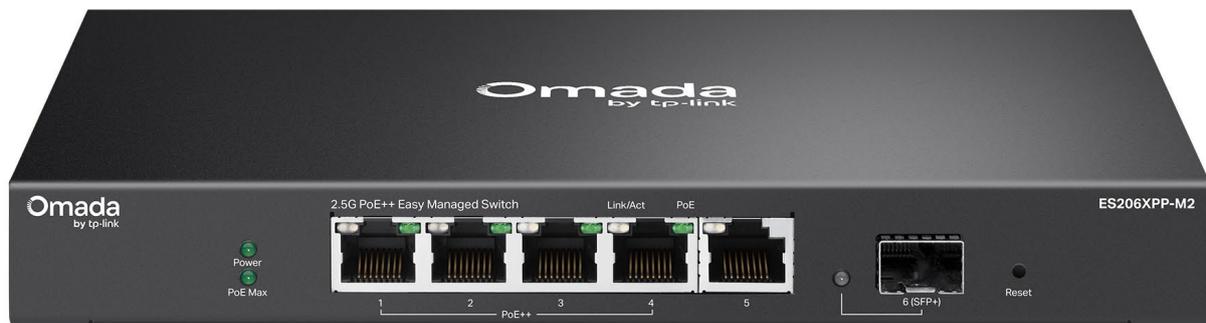# Omada

by tp-link

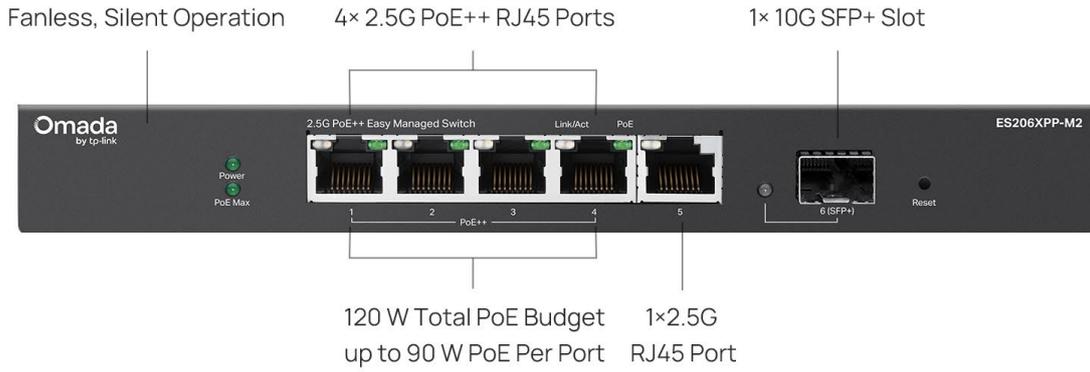# Omada Easy Managed Switch | Datasheet

ES206XPP-M2

Omada 5-Port 2.5GBASE-T and 1-Port 10GE SFP+ Easy Managed Switch with 4-Port PoE++

Highlights

- 5× 2.5 Gbps RJ45 Ports (4× 802.3af/at/bt-compliant PoE++)

- 1× 10 Gbps SFP+ Slot

- 120W 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[Δ], and IGMP Snooping

- Fanless design for silent operation

- Durable metal casing and desktop/wall mounting design

Product Pictures

Fanless, Silent Operation

4× 2.5G PoE++ RJ45 Ports

1× 10G SFP+ Slot

2.5G PoE++ Easy Managed Switch

Link/Act   PoE

ES206XPP-M2

Power

PoE Max

1   2   PoE++   3   4   5   6 (SFP+)   Reset

120 W Total PoE Budget
up to 90 W PoE Per Port

1×2.5G
RJ45 Port

Physical Security Lock

Metal Casing

Power Input

53.5V ⎓ 2.43A

Desktop or Wall Mount

Omada
by tp-link

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by tp-link

2.5G PoE++ Easy Managed Switch

Link/Act   PoE

Power

PoE Max

1   2   PoE++   3   4   5   6 (SFP+)   Reset

ES206XPP-M2

1.0 in (26 mm)

5.0 in (126 mm)

8.2 in (209 mm)

Specifications

Hardware Features & Performance		
Model		ES206XPP-M2
General	Interface	4× 100 Mbps/1Gbps/2.5Gbps PoE++ RJ45 Ports 1× 100 Mbps/1Gbps/2.5Gbps RJ45 Port 1× 10G SFP+ Slot
	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 802.3z: 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	4, up to 90 W per port
	PoE Power Budget	120 W
	Fast PoE	YES
	Perpetual PoE	YES
Performance	Switching Capacity	45 Gbps
	Packet Forwarding Rate	33.48 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: 53.5VDC / 2.43A)
	Standby Power Consumption	3.5 W (110V/60 Hz)
	Max Power Consumption	141.4 W (110V/60Hz) (with 120 W PD connected)
	Max Heat Dissipation	480.66 BTU/hr (110 V/60 Hz) (with 120 W PD connected)
	MTBF	702277h @ 25°C
	Dimensions (W x D x H)	8.2 × 5.0 × 1.0 in (209× 126 × 26 mm)
	Net Weight	0.67 kg (1.48 lbs)
	Fan Quantity	Fanless
	Installation	Desktop / Wall Mounting

Hardware Features & Performance

	Model	ES206XPP-M2
Physical & Environmen	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
	Surge Protection	±6 kV in common mode for Ethernet Ports ±2 kV in differential mode for DC power input port
	ESD Protection	Air: ±8 kV, Contact: ±4 kV
	Certification	CE, FCC, RoHS

Software Features

Model	ES206XPP-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 • 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
L2 Multicast	• IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave
VLAN	• MTU VLAN • Port-Based VLAN • 802.1Q Tag VLAN - Max 32 VLAN Groups - 4K VID
QoS	• 802.1p DSCP Priority • 8 Priority Queues • Priority Schedule Mode - WRR (Weighted Round Robin) • Queue Weight Config • Bandwidth Control - Port-Based Rating Limit • Storm Control - Multiple Control Modes (kbps/pps) - Broadcast/Multicast/Unknown-Unicast Control
Management Features	• Web-based GUI • DHCP Client • Cable Diagnostics