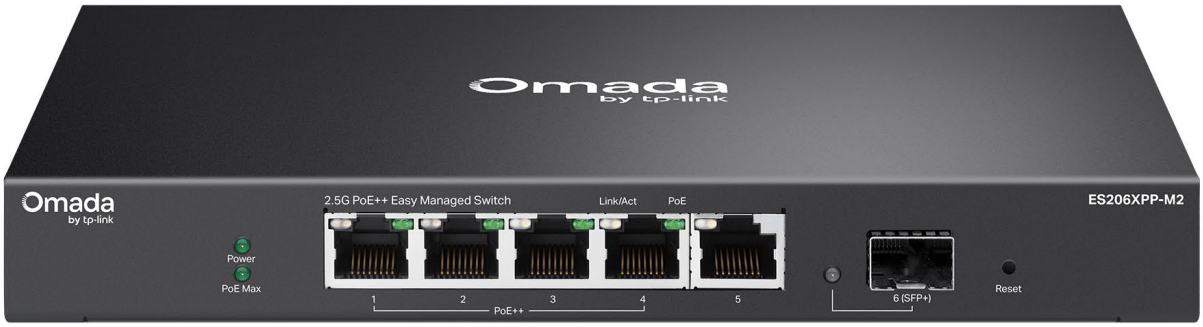
Omada Easy Managed Switch | Datasheet

ES206XPP-M2

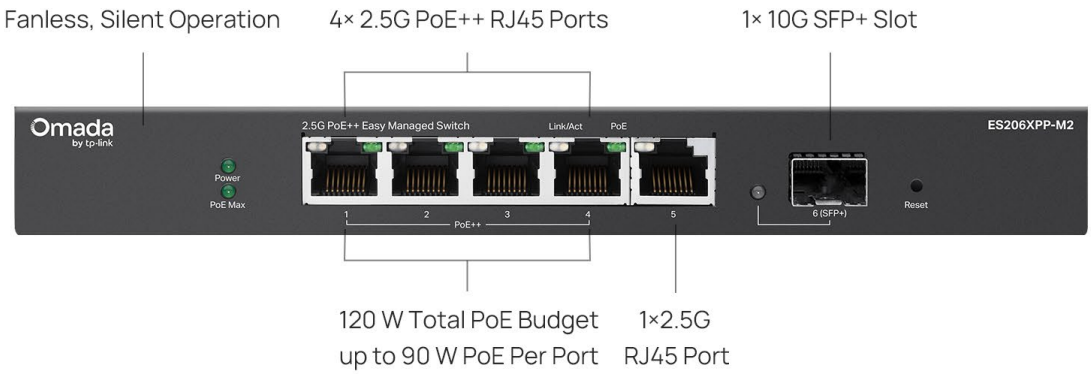
Omada 5-Port 2.5GBASE-T and 1-Port 10GE SFP+ Easy Managed Switch with 4-Port PoE++



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$^{\Delta}$, and IGMP Snooping
- Fanless design for silent operation
- Durable metal casing and desktop/wall mounting design

Product Pictures



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	53.5 VDC/2.43 A
	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

†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).

△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.