

# Omada Easy Managed Switch | Datasheet

## ES206GP

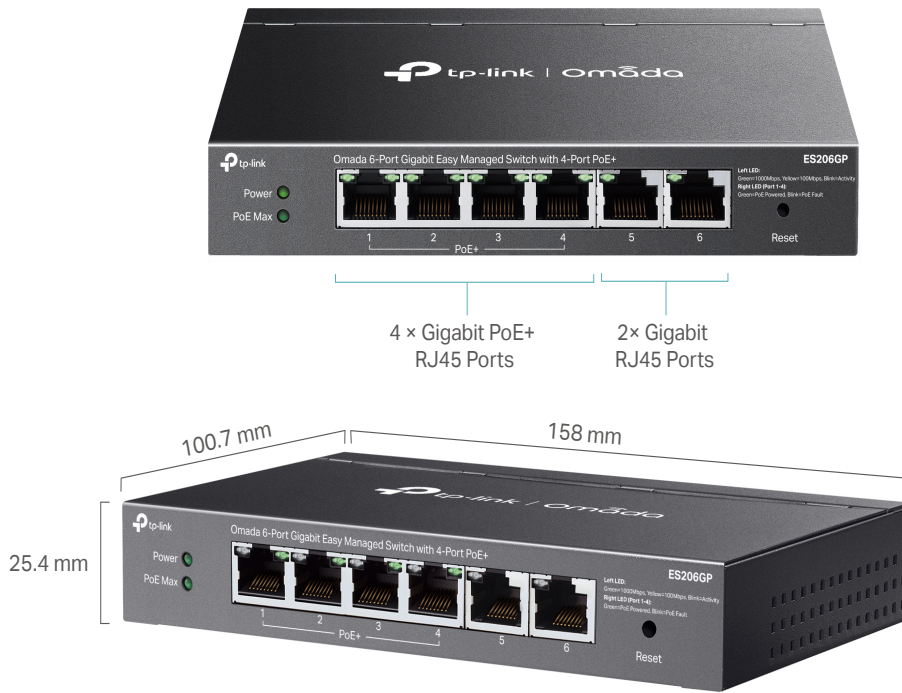
Omada 6-Port Gigabit Easy Managed Switch with 4-Port PoE+



## Highlights

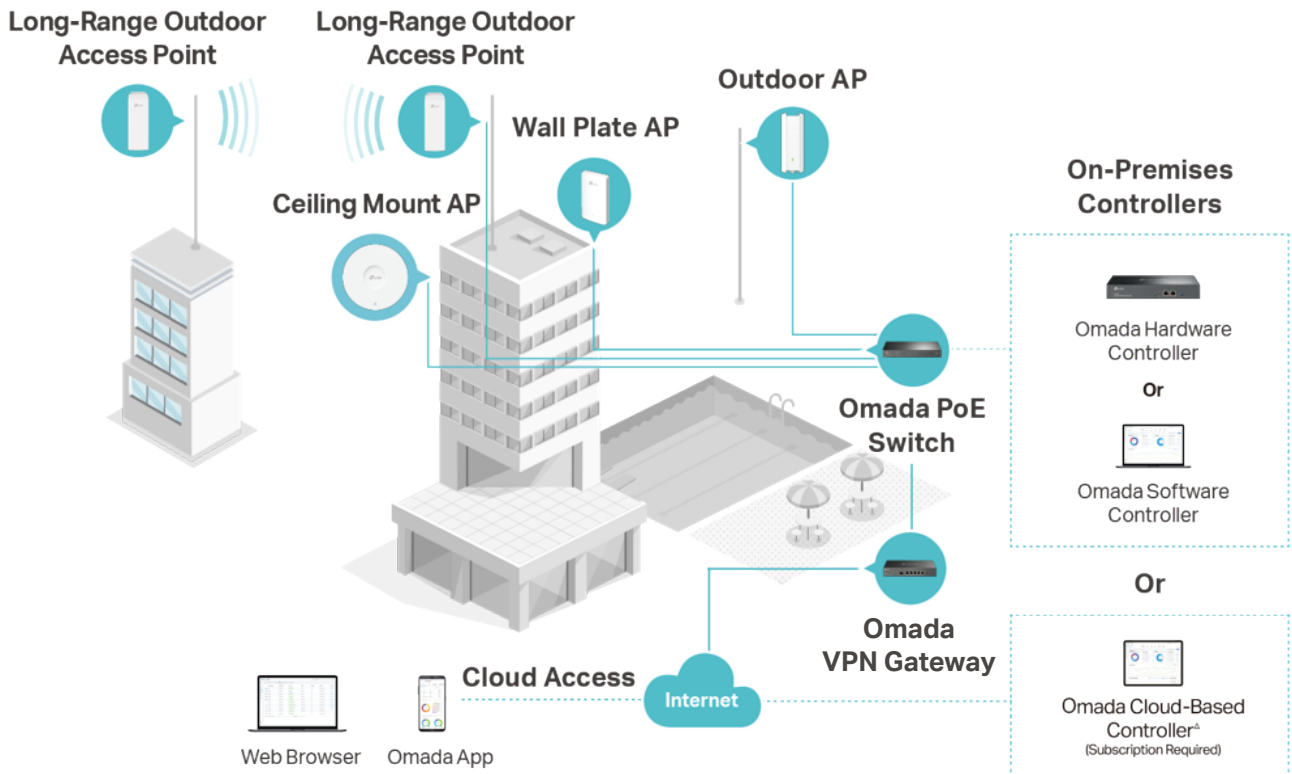
- 6× 10/100/1000Mbps RJ45 ports (4× 802.3af/at-compliant PoE+)
- 65W Power Budget, with up to 30W for each PoE port\*
- Easy to Use: Supports plug-and-play for instant connectivity and simple configuration for additional features
- Centralized Cloud Management via the web or the Omada app<sup>†</sup>
- Up to 250m PoE\*\*, QoS<sup>Δ</sup>, PoE Auto Recovery<sup>‡</sup>, and Port Isolation for reliable surveillance networking
- Automatic Loop Prevention, VLAN, and IGMP Snooping
- Fanless design for silent operation
- Durable metal casing and desktop/wall mounting design

# Product Pictures



# Omada Solution

Omada's Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network—all controlled from a single interface.



Hassle-Free Cloud or On-Premises Controllers



Zero-Touch Provisioning (ZTP)<sup>+</sup>



Multi-Site Cloud Management

Intelligent Monitoring

# Specifications

## Hardware Features & Performance

Model		ES206GP
General	Interface	4× 10/100/1000 Mbps PoE+ RJ45 Ports 2× 10/100/1000 Mbps RJ45 Ports
	Flash	64 Mbit
	Port Standard	IEEE 802.3i:10BASE-T Ethernet IEEE 802.3u:100BASE-X Fast Ethernet IEEE 802.3ab:1000BASE-T Gigabit Ethernet 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
	PoE Ports	4, up to 30 W per port
	PoE Power Budget	65 W
	Fast PoE	YES
	Perpetual PoE	YES
Performance	Switching Capacity	12 Gbps
	Packet Forwarding Rate	8.93 Mpps
	MAC Address Table	8K
	Packet Buffer	4 Mbit
	Transmission Method	Store and Forward
	Jumbo Frame	15 KB
Physical & Environment	Power Supply	53.5 VDC/1.31 A
	Max Power Consumption	76.6 W (110V/60Hz) (with 65 W PD connected)
	Max Heat Dissipation	260.44 BTU/hr (110 V/60 Hz) (with 65 W PD connected)
	Standby Power Consumption	2.9 W (110V/60 Hz)
	Surge Protection	±6 kV in differential mode, ±6 kV in common mode for Ethernet Ports
	ESD Protection	Air: ±8 kV, Contact: ±4 kV
	MTBF	390422h @ 25°C
	Dimensions (W x D x H)	6.2×4.0×1.0 in (158×100.7×25.4 mm)
	Fan Quantity	Fanless
	Installation	Desktop/Wall Mount
	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, RoHS	

## Software Features

Model	ES206GP
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 2 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	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• DHCP Client</li> <li>• Cable Diagnostics</li> </ul>

# Ordering Information

## Host Switch

Model	Description
ES206GP	Omada 6-Port Gigabit Easy Managed Switch with 4-Port PoE+

## MC Series Media Converter

Model	Description
MC210CS	Gigabit Single-Mode Media Converter, up to 20 km, chassis mountable
MC200CM	Gigabit Multi-Mode Media Converter, up to 550 m, chassis mountable
MC220L	Gigabit SFP Media Converter, chassis mountable

## FC Series Media Converter

Model	Description
FC111A-20	100Mbps Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable
FC111B-20	100Mbps Single-Mode WDM Media Converter, up to 20 km, TX:1310nm, RX:1550nm, chassis mountable
FC311A-2	Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1550nm, RX:1310nm, chassis mountable
FC311B-2	Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1310nm, RX:1550nm, chassis mountable
FC311A-20	Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable
FC311B-20	Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1310nm, RX:1550nm, chassis mountable

†Centralized cloud management 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.

‡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>QoS and Priority Mode 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.

\*\*The speed of the ports that support 250m PoE transmission will be downgraded to 10 Mbps. Actual transmission distance may vary depending on the quality of the cables. Specifications are subject to change without notice. All brands and product names are trademarks or registered trademarks of their respective holders. © 2025 TP-Link