Omada Easy Managed Switch | Datasheet

ES210GP
Omada 10-Port Gigabit Easy Managed Switch with 8-Port PoE+
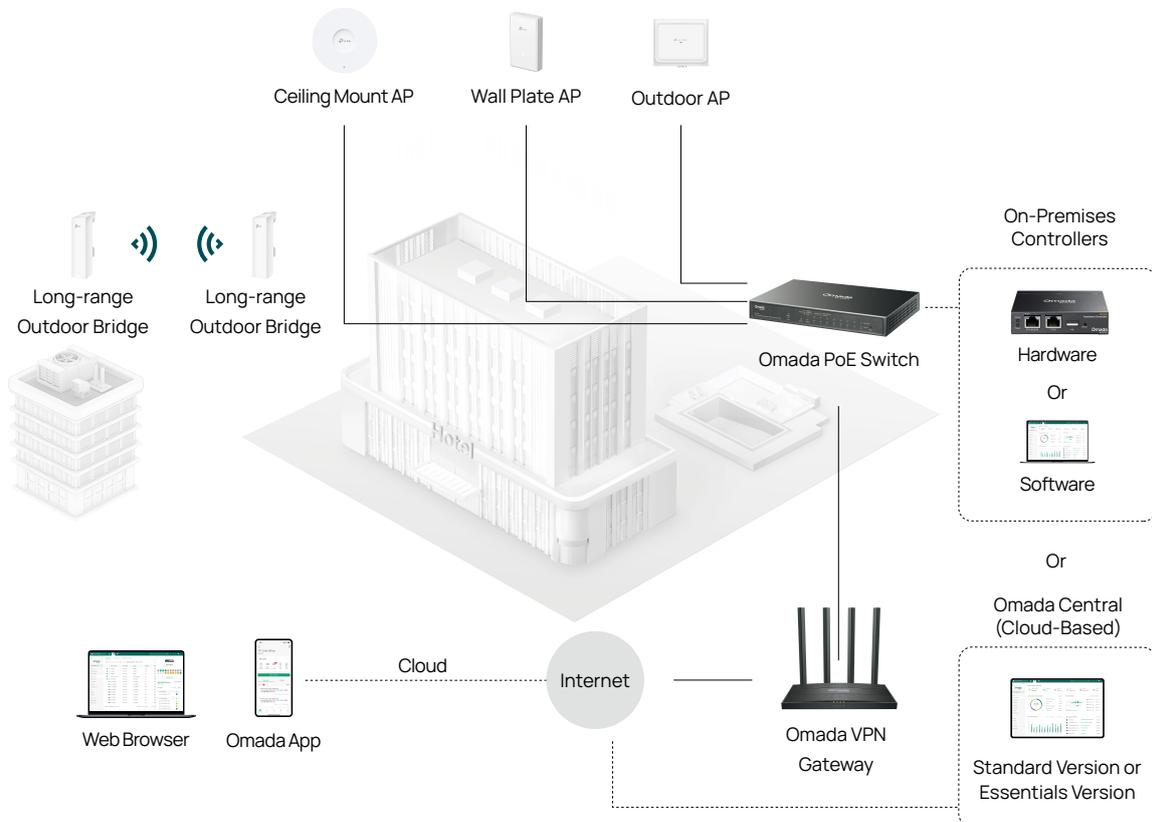

Highlights

- 8× Gigabit 802.3af/at-compliant PoE+ RJ45 ports
- 1× Gigabit RJ45 port, 1× Gigabit SFP/RJ45 Combo port
- 63W 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[†]
- Up to 820ft PoE**, Remote Camera Reboot[†], QoS, 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

209 mm

126 mm

26 mm

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.

Ceiling Mount AP

Wall Plate AP

Outdoor AP

On-Premises Controllers

Long-range Outdoor Bridge

Long-range Outdoor Bridge

Omada PoE Switch

Hardware

Or

Software

Or

Omada Central (Cloud-Based)

Cloud

Internet

Web Browser

Omada App

Omada VPN Gateway

Standard Version or Essentials Version

Hassle-Free Cloud or On-Premises Controllers

Zero-Touch Provisioning (ZTP)†

Multi-Site Cloud Management

Intelligent Monitoring

Specifications

Hardware Features & Performance

Model		ES210GP
General	Interface	8× 10/100/1000 Mbps PoE+ RJ45 Ports 1× 10/100/1000 Mbps RJ45 Port 1× Gigabit SFP/RJ45 Combo Port
	Flash	64 Mbit
	Port Standard	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol; IEEE 802.3i:10BASE-T Ethernet; IEEE 802.3u:100BASE-X Fast Ethernet; IEEE 802.3ab:1000BASE-T Gigabit Ethernet; IEEE 802.3z:1000BASE-X Gigabit 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
PoE	PoE Standard	802.3af/at
	PoE Ports	8, up to 30 W per port
	PoE Power Budget	63 W*
Performance	Switching Capacity	20 Gbps
	Packet Forwarding Rate	14.88 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	69.01 W (220 V/50 Hz) (with 63 W PD connected @ 25 ℃) 69.38 W (110 V/60 Hz) (with 63 W PD connected @ 25 ℃)
	Max Heat Dissipation	235.32 BTU/hr (220 V/50 Hz) (with 63 W PD connected @ 25 ℃) 236.59 BTU/hr (110 V/60 Hz) (with 63 W PD connected @ 25 ℃)
	Standby Power Consumption	3.53 W (220 V/50 Hz @ 25 ℃) 3.58 W (110 V/60 Hz @ 25 ℃)
	Noise	14.8 dBA max @ 1cm
	Surge Protection	Service port: ±6 kV; Power port: ±2 kV
	ESD Protection	Air: ±8 kV, Contact: ±4 kV
	MTBF	335,515 h @ 25 ℃ 242,289 h @ 40 ℃
	Dimensions (W x D x H)	8.2×4.9×1.0 in (209×126×26 mm)
	Fan Quantity	Fanless
	Installation	Desktop/Wall-Mounting
	Operating Temperature	0 ℃ to 40 ℃ (32 °F to 104 °F)
	Storage Temperature	-40 ℃ to 70 ℃ (-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	ES210GP
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 4 aggregation groups and up to 6 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	• Web-based GUI • DHCP Client • Cable Diagnostics