

Omada Easy Managed Switch | Datasheet

ES220GMP

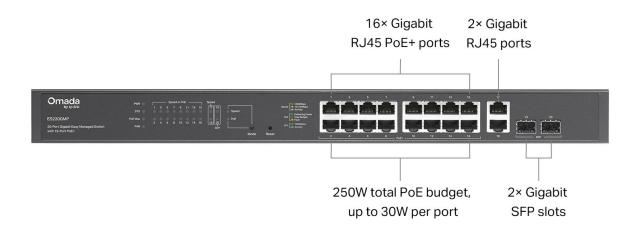
Omada 20-Port Gigabit Easy Managed Switch with 16-Port PoE+



Highlights

- 18× 10/100/1000Mbps RJ45 ports (16× 802.3af/at-compliant PoE+)
- 2× Gigabit SFP slots
- 250W 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 250m PoE**, QoS[△], PoE Auto Recovery[‡], and Port Isolation for reliable surveillance networking
- Automatic Loop Prevention, VLAN, and IGMP Snooping
- Durable metal casing and rack-mountable design

Product Pictures







Specifications

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	Model	ES220GMP
General	Interface	16× 10/100/1000 Mbps PoE+ RJ45 Ports 2× 10/100/1000 Mbps RJ45 Ports 2× Gigabit SFP Ports
	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 IEEE 802.1ab: Station and Media Access Control Connectivity Discovery (LLDP)
PoE	PoE Standard	802.3af/at
	PoE Ports	16, up to 30 W per port
	PoE Power Budget	250 W
	Fast PoE	YES
	Perpetual PoE	YES
Performance	Switching Capacity	40 Gbps
	Packet Forwarding Rate	29.76 Mpps
	MAC Address Table	8K
	Packet Buffer	4 Mbit
	Transmission Method	Store and Forward
	Jumbo Frame	15 KB
Physical & Environment	Power Supply	100-240V ~ 50/60Hz
	Standby Power Consumption	12.2 W (110V/60 Hz)
	Max Power Consumption	289.7 W (110V/60Hz) (with 250 W PD connected)
	Max Heat Dissipation	984.88 BTU/hr (110 V/60 Hz) (with 250 W PD connected)
	MTBF	310550.7h @ 25°C
	Dimensions (W x D x H)	17.3×7.1×1.7 in (440×180×44 mm)
	Net Weight	2.4 kg (5.29 lbs)
	Fan Quantity	2
	Noise	Min: 33.4 dBA @ 1m 25 °C Max: 48.5 dBA @ 1m 25 °C
	Installation	Desktop / Rack Mounting

Hardware Features & Performance				
	Model	ES220GMP		
Physical & Environment	Operating Temperature	-5 °C to 50 °C (23 °F to 122 °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		
	ESD Protection	Air: ±8 kV, Contact: ±4 kV		
	Certification	CE, FCC, RoHS		

Software Features			
Model	ES220GMP		
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 8 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	 Port-based/802.1p/DSCP QoS 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).

 $^{^\}Delta \text{QoS}$ 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. © 2025 TP-Link