

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^T
- 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



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.



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	8К	
	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 W50 Hz) (with 63 W PD connected @ 25 °C) 69.38 W (110 W60 Hz) (with 63 W PD connected @ 25 °C)	
	Max Heat Dissipation	235.32 BTU/hr (220 V/50 Hz) (with 63 W PD connected @ 25 °C) 236.59 BTU/hr (110 V/60 Hz) (with 63 W PD connected @ 25 °C)	
	Standby Power Consumption	3.53 W (220 V/50 Hz @ 25 °C) 3.58 W (110 V/60 Hz @ 25 °C)	
	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 °C to 40 °C (32 °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	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 		

[†]These functions require the use of the Omada Controller. Zero-Touch Provisioning requires the use of Omada Central (Omada Central Standard or Omada Central Essentials).

*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. **When Extend Mode is enabled, the speed of ports that support 820ft (250m) PoE transmission will be downgraded to 10 Mbps. Actual transmission distance may vary depending on the quality of the cables.

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