Omada Easy Managed Switch | Datasheet

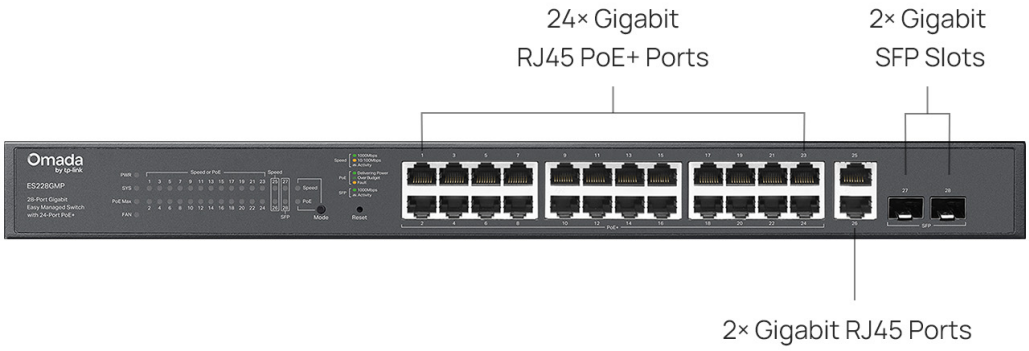
ES228GMP

Omada 28-Port Gigabit Easy Managed Switch with 24-Port PoE+

Highlights

- 26× 10/100/1000Mbps RJ45 ports (24× 802.3af/at-compliant PoE+)
- 2× Gigabit SFP slots
- 384W 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 820 ft (250 m) 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

Hardware Features & Performance		
Model		ES228GMP
General	Interface	24× 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	24, up to 30 W per port
	PoE Power Budget	384 W
	Fast PoE	YES
	Perpetual PoE	YES
	PoE Pinout	Alternative A, 1/2(-) & 3/6(+)
Performance	Switching Capacity	56 Gbps
	Packet Forwarding Rate	41.67 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	14.2 W (220 V/50 Hz @ 25 °C) 16.3 W (110 V/60 Hz @ 25 °C)
	Max Power Consumption	456.4 W (220 V/50 Hz) (with 384 W PD connected @ 25 °C) 468.9 W (110 V/60 Hz) (with 384 W PD connected @ 25 °C)
	Max Heat Dissipation	1551.76 BTU/hr (220 V/50 Hz) (with 384 W PD connected @ 25 °C) 1594.26 BTU/hr (110 V/60 Hz) (with 384 W PD connected @ 25 °C)
	MTBF	224,143 h @ 25 °C
	Dimensions (W x D x H)	17.3×13.0×1.7 in (440×330×44 mm)
	Net Weight	5.0 kg (11.0 lbs)
	Fan Quantity	2
	Noise	Min: 13.7 dBA @ 1m 25 °C Max: 45.2 dBA @ 1m 25 °C
	Surge Protection	±6 kV in common mode for Ethernet Ports
	ESD Protection	Air: ±8 kV, Contact: ±4 kV
	Installation	Desktop / Rack Mounting
	Operating Temperature	-5 °C to 45 °C (23 °F to 113 °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

Software Features

Model	ES228GMP
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 • Port Isolation • 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 • IEEE 802.3az EEE
L2 Multicast	• IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave / Report Suppression
VLAN	• 802.1Q Tag VLAN - Max 32 VLAN Groups - 4K VID
QoS	• Port-based/802.1p/DSCP QoS[△] • 8 Priority Queues • Priority Schedule Mode - Weighted Round Robin (WRR) • Queue Weight Config • Bandwidth Control - Port-Based Rating Limit • Storm Control - Multiple Control Modes (kbps/pps) - Broadcast/Multicast/Unknown-Unicast Control
Management	• HTTPS/HTTP • DHCP Client • Cable Diagnostics • ONVIF*** • IntelliRecover[‡]

[†]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.

[‡]IntelliRecover is supported under Controller Mode. POE Auto Recovery is supported under Standalone Mode.

[△]Port-based/802.1p/DSCP QoS are supported under Standalone Mode. QoS Rule is supported under Controller 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.

***ONVIF is supported only in Controller mode.

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