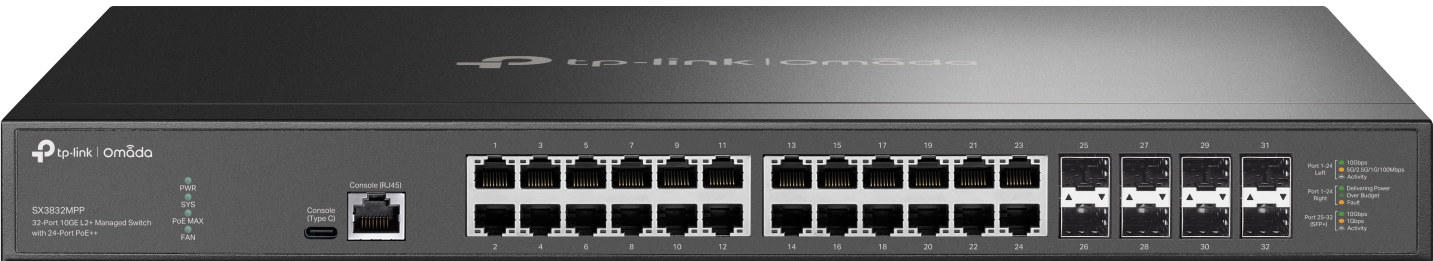


10-Gigabit L2+ Managed Switch Datasheet

SX3832MPP

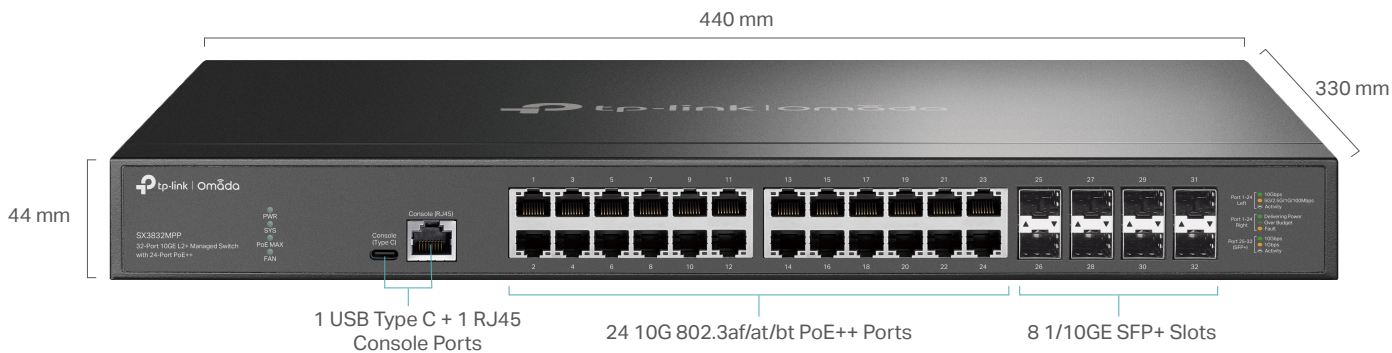
Omada 32-Port 10GE L2+ Managed Switch with 24-Port PoE++



Highlights

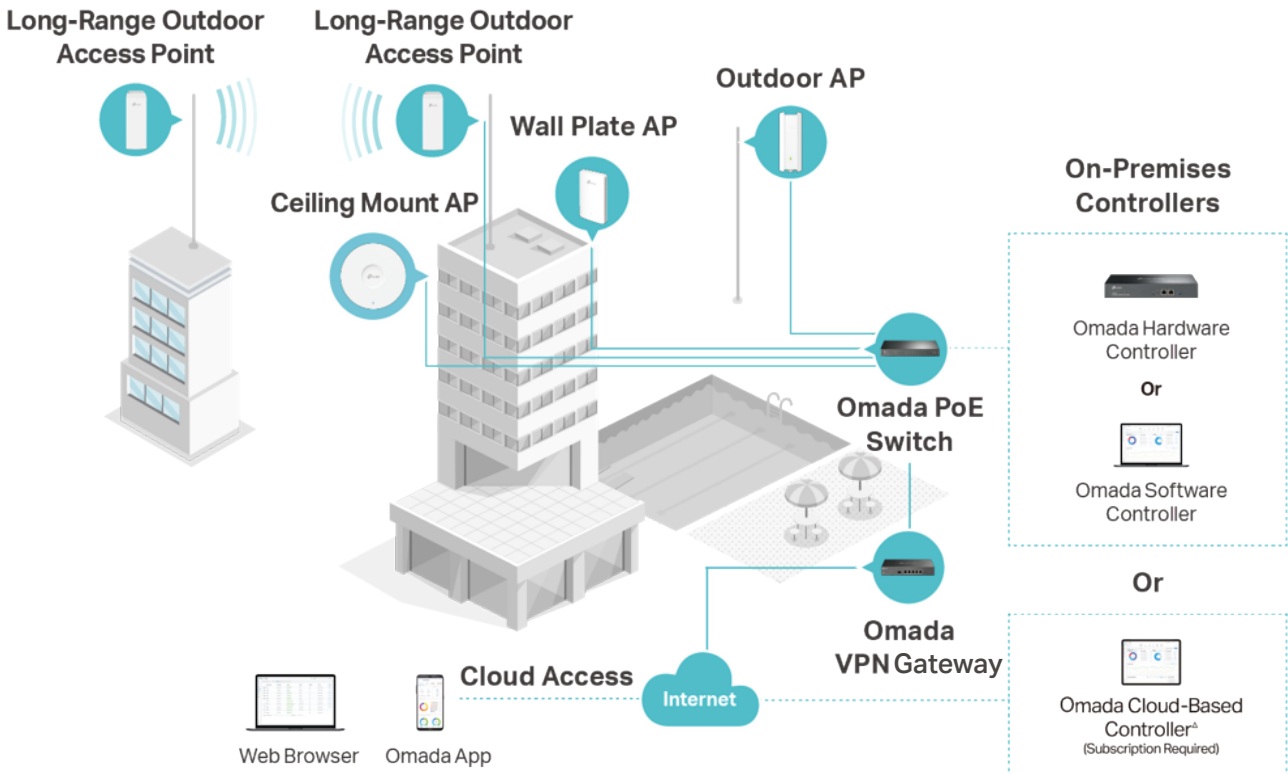
- 8× 1/10GE SFP+ Slots
- 24× 10G 802.3af/at/bt PoE++ Ports
- 770 W total PoE budget with up to 90 W PoE output per port*
- Centralized cloud management via the web or the Omada app[†]
- Standalone management via web, CLI, SNMP, and RMON
- VLAN, ACL, QoS, IGMP Snooping, OAM, and DDM
- Durable metal casing and rack-mountable design

Product Picture



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



Multi-Site Cloud Management



Zero-Touch Provisioning (ZTP)*



Intelligent Monitoring

Specifications

Hardware Features & Performance		
Model		SX3832MPP
General	Interface	24 100 M/1 G/2.5 G/5 G/10 Gbps RJ45 Ports 8 1/10GE SFP+ Slots
	Console	
	Flash	32 MB
	DRAM	512 MB
	Port Standard	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol IEEE 802.3u: 100BASE-X Fast Ethernet (UTP/STP) IEEE 802.3ab: 1000BASE-T Gigabit Ethernet IEEE 802.3an: 10GBASE-T 10G Ethernet
		IEEE 802.3bz: 2.5GBASE-T 2.5G Ethernet IEEE 802.3bz: 5GBASE-T 5G Ethernet IEEE 802.3af: Power over Ethernet IEEE 802.3at: Power over Ethernet enhancements IEEE 802.3bt: Power over Ethernet over 4 pairs IEEE 802.3x: Flow Control
PoE	PoE Standard	802.3af/at/bt
	PoE Ports	24, up to 90 W per port
	PoE Power Budget	770 W*
	Fast PoE	Yes
	Perpetual PoE	Yes
Performance		640 Gbps
	Packet Forwarding Rate	240 Mpps
		24 Mbit
	MAC Address Table	32 K
	Transmission Method	Store and Forward
	Jumbo Frame	9 KB
Environmet		100-240 V AC~50/60 Hz
	Max Power Consumption	1,010.2 W (110V/60Hz with 770 W PD connected) 953.7 W (220V/50Hz with 770 W PD connected)
	Max Heat Dissipation	3,444.7 BTU/hr (110V/60Hz with 770 W PD connected) 3,252.2 BTU/hr (220V/50Hz with 770 W PD connected)
	Consumption	57.7 W max (110 V/60 Hz 25 °C) 56.5 W max (220 V/50 Hz 25 °C)
	Noise	Min: 43.0 dBA @1 m & 25 °C Max: 58.9 dBA @1 m & 25 °C
	Dimensions (W x D x H)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)
		4
	Surge Protection	Service port: ±6 kV in common mode
	MTBF	315,002 h @ 25 °C
	Installation	Rack Mountable
	Operating Temperature	-5 °C to 45 °C (23 °F to 113 °F)
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
		10% to 90% RH, non-condensing
		5% to 90% RH, non-condensing
		CE, FCC, RoHS

two 10G RJ45 SFP+ modules.

Software Features		
SDN Support	• Support Omada Hardware Controller • Batch Firmware Upgrading	• Intelligent Network Monitoring • Reboot Schedule
L3 Features	• 128 IPv4/IPv6 Interfaces • Static Routing - 48 static routes • Static ARP - 128 static entries • 510 ARP Entries	• Gratuitous ARP • DHCP Server
L2 Features	• Link Aggregation - Static link aggregation - 802.3ad LACP - Up to 8 aggregation groups and up to 8 ports per group • Spanning Tree Protocol - 802.1d STP - 802.1w RSTP - 802.1s MSTP - Protect, Root Protect, Loop Protect	• Loopback Detection - Port based - VLAN based • Flow Control - 802.3x Flow Control - HOL Blocking Prevention • Mirroring - Port Mirroring - CPU Mirroring - One-to-One - Tx/Rx/Both
L2 Multicast	• Supports 4000 (IPv4, IPv6) IGMP groups • IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - IGMP Authentication • MVR	• MLD Snooping - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Limited IP Multicast
VLAN	• VLAN Group (802.1q VLAN) - Max 4K VLAN Groups • 802.1Q Tagged VLAN • MAC VLAN entries: 30 • Protocol VLAN: Protocol Template 16, Protocol VLAN 12	• GVRP • VLAN VPN - VLAN Mapping - VLAN Replace • Voice VLAN
QoS	• Queue scheduling - WRR (Weighted Round Robin) - SP+WRR	• Bandwidth Control - Port/Flow based Rating Limiting • Smoother Performance • Action for Flows - QoS remark (802.1P Remark, DSCP Remark)
ACL	• MAC ACL - Source MAC - Destination MAC - VLAN ID • IP ACL -Source IP - Destination IP - Fragment - IP Protocol - TCP Flag	- TCP/UDP Port - DSCP/IP TOS • Combined ACL • IPv6 ACL - Mirroring - Redirect - Rate Limit - QoS Remark • Time-based ACL

Software Features		
	• IP-MAC-Port Binding - 512 Entries - DHCP Snooping - ARP Inspection - IPv4 Source Guard • IPv6-MAC-Port Binding - 512 Entries - DHCPv6 Snooping - ND Detection - ND Snooping - IPv6 Source Guard • DoS Defend • DHCP Filter - Up to 64 MAC addresses per port • Broadcast/Multicast/Unknown-unicast Storm Control - kbps/ratio control mode	• 802.1X - Port base authentication - Mac base authentication - VLAN Assignment - MAB - Guest VLAN - Support RADIUS authentication and • AAA (including TACACS+) • Port Isolation • Secure web management through HTTPS with SSLv3/TLS 1.2 • Secure Command Line Interface (CLI) management with SSHv1/SSHv2 • IP/Port/MAC based access control
ISP Features	• 802.3ah Ethernet Link OAM • PPPoE ID Insertion • ERPS	• Device Link Detect Protocol (DLDP) • sFlow • DDM
Management	• Web-based GUI • Command Line Interface (CLI) through consoleport, telnet • SNMPv1/v2c/v3 - Trap/Inform - RMON (1, 2, 3, 9 groups) • SDM Template • DHCP/BOOTP Client • 802.1ab LLDP/LLDP-MED	• DHCP Auto Install • CPU Monitoring • Cable Diagnostics • Sntp •
IPv6 Support	• IPv6 Dual IPv4/IPv6 • IPv6 ACL • IPv6 Interface • Static IPv6 Routing • Internet Control Message Protocol (ICMP) version 6 • TCPv6/UDPv6	• IPv6 applications
MIBs	• MIB II (RFC1213) • Interface MIB (RFC2233) • Ethernet Interface MIB (RFC1643) • Bridge MIB (RFC1493) • P/Q-Bridge MIB (RFC2674) • RMON MIB (RFC2819)	• RMON2 MIB (RFC2021) • RADIUS Accounting Client MIB (RFC2620) • RADIUS Authentication Client MIB (RFC2618) • Remote Ping, Traceroute MIB (RFC2925) • Support TP-Link Private MIB

Ordering Information

Host Switch

Model	Description
SX3832MPP	Omada 32-Port 10GE L2+ Managed Switch with 24-Port PoE++

SFP/SFP+ Modules

Model	Description
SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 20km distance
SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550m distance
SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 20 km
SM321A-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 2 km
SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 20 km
SM321B-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 2 km
SM5110-LR	10GBase-LR SFP+ LC Transceiver, single-mode, LC connector, 1310nm, 10 km
SM5110-SR	10GBase-SR SFP+ LC Transceiver, multi-mode, LC connector, 850nm, 300 m

RJ45 SFP/SFP+ Modules

Model	Description
SM331T	1000BASE-T RJ45 SFP Module
SM5310-T	10GBASE-T RJ45 SFP+ Module

MC Series Media Converter

Model	Description
MC210CS	Gigabit Single-Mode Media Converter, up to 20 km, chassis mountable
MC200CM	Gigabit multi-mode SC SFP Transceiver, up to 550 m, chassis mountable
MC200L	Gigabit SFP slot supporting mini-GBIC modules, 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	
FC311A-2	Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1550nm, RX:1310nm, chassis mountable
FC311B-2	
FC311A-20	Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable
FC311B-20	

limitations and environmental factors.
†These functions require the use of the Omada SDN Controller. Zero-Touch Provisioning requires the use of the Omada Cloud-Based Controller.