

Omada Switch | Datasheet

SX6632YF

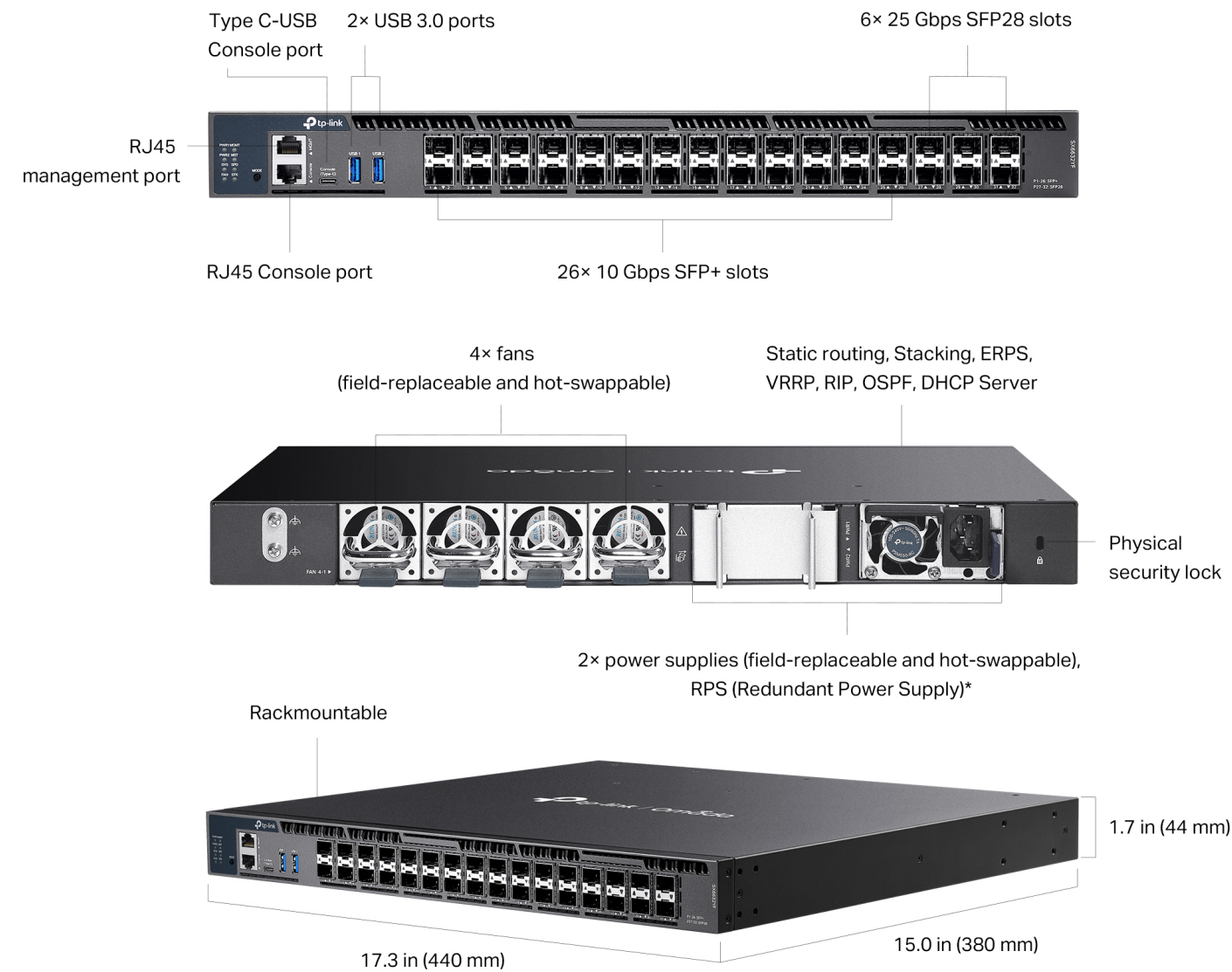
Omada 26-Port 10G Stackable L3 Managed Aggregation Switch with 6 25G Slots



Highlights

- 26× 10G SFP+ slots and 6× 25G SFP28 slots
- 820 Gbps switching capacity
- Physical Stacking up to 8 units for built-in redundancy and performance**
- L3 features: RIP, OSPF, ECMP, VRRP, PIM-DM, PIM-SM, and DHCP Server/Relay
- Security Strategies: ACL, Port Security, DoS Defend, 802.1X
- Highly Available with two field-replaceable power supplies*, VRRP, and ERPS
- Centralized cloud management via the Omada SDN controller
- Standalone management via web, CLI, SNMP, and RMON

Product Pictures



*Ships with one PSM550-AC module by default, and another field-replaceable redundant power supply requires a separate purchase.

**Physical stacking up to 8 units at standalone mode and 4 units at controller mode

Specifications

Hardware Features & Performance		
Model		SX6632YF
General	Interface	26 × 1/10Gbps SFP+ Slots* 6 × 1/10/25Gbps SFP28 Slots
	Console Ports	1 × RJ45 + 1 × USB Type-C
	Management Port	1 × RJ45
	USB Ports	2 × USB 3.0
	Flash	2 × 4 MB Nor + 8,192 MB EMMC
	DRAM	8,192 MB DDR4
	Processor	Quad-Core ARM @1.2GHz CPU
Performance	Switching Capacity	820 Gbps
	Forwarding Bandwidth	410 Gbps
	MAC Address Table	Max 128K
	Hardware Routes Entries	Max 16,384
	Packet Forwarding Rate	610.1 Mpps
	Packet Buffer	64 Mbit
	Stacking Port	25G SFP28 slot (All uplink ports can be used as stacking ports)**
	Max Stacking Number	8 in standalone mode, 4 in controller mode
	Stacking Bandwidth	Up to 300 Gbps (6 stacking ports)
	Compatible Model for Stacking	SX6632YF
	Transmission Method	Store and Forward
	Jumbo Frame	9 KB
Physical & Environment	Power Supply	100-240 V ~50/60 Hz
	Redundant Power Supply	Max 2 hot swappable power supply module, N+1 redundant (shipped with one PSM550-AC module by default)***
	Suitable Power Supply Module	PSM550-AC
	Max Power Consumption	86.7 W (110 V/60 Hz)
	Max Heat Dissipation	295.85 BTU/hr (110 V/60 Hz)
	Standby Power Consumption	31.4 W (220 V/50 Hz)
	Noise	1× PSM550-AC power supply module: Min: 34.9 dBA @ 1m 25 °C Max: 61.7 dBA @ 1m 25 °C
	Fan Quantity	4 hot swappable fan trays (shipped by default), N+1 redundant
	Airflow	Front-to-back
	Surge Protection	Service port: ±6 kV in common mode
	ESD Protection	Air: ±15 kV, Contact: ±8 kV
	MTBF	724,732 h @ 25 °C
	Dimensions (W x D x H)	17.3 × 15.0 × 1.7 in (440 × 380 × 44 mm)
	Net Weight	6.54 kg (14.42 lbs)
	Installation	Rackmount
	Operating Temperature & Altitude	-5 °C to 50 °C (23 °F to 122 °F) @ 300 meters -5 °C to 45 °C (23 °F to 113 °F) @ 2,000 meters -5 °C to 40 °C (23 °F to 104 °F) @ 3,000 meters****
	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

*No more than six 10G RJ45 SFP+ modules are supported. And it is recommended to have one column interval between every two 10G RJ45 SFP+ modules.

**The 25G SFP28 slots support stacking only through 25G DAC/25G SFP28 modules rather than 10G DAC/10G SFP+ modules.

***An additional power supply module needs to be purchased separately.

****The supported altitude is sea level to 5000 m. It should be noted that when the altitude is above 2000 m, for every 220 meters of altitude increase, the maximum operating temperature will drop by 1°C (1.8°F).

Software Features^			
Model		SX6632YF	
System	System Info	• Device Description - Name - Location - System Contact • System Time - Manual - Synchronize with PC's Clock - SNTP Client • DST - Predefined Mode - Recurring Mode - Date Mode	• LED - LED on/off • System IP - Static IP/DHCP/BOOTP • System IPv6 - Link-local Address Config - Global Address Autoconfig via RA Message - Global Address Autoconfig via DHCPv6 Server - Add a Global Address Manually
	User Management	• User Settings • Access Level: 4 levels	• Password Recorvery Settings
	System Tools	• Config Restore/Backup - Web: HTTP - CLI: TFTP/Flash/USB • Firmware Upgrade - Web: HTTP - CLI: TFTP/Flash/USB	• System Reboot • System Reset • Boot Config (Dual Image) • Reboot Schedule
	Access Security	• Access Control Config - IP-based - MAC-based - Port-based - IPv6-based • HTTP Config - Enable/Disable - Session Config - Access User Number - Port Setting • SSL Config - SSLv3/TLSv1 Enable/Disable - CipherSuite Config - IPv6 SSL	• SSH Config - Enable/Disable - v2 - Encryption Algorithm - Data Integrity Algorithm - Port Setting - IPv6 SSH • Telnet Config - Enable/Disable - Port Setting - IPv6 Telnet • Console Port - Baud Rate setting
	Stack	• Stack Setting • Stack-port LAG: up to 6 groups, each group supports a maximum of all stackable-ports • Stackable Devices: up to 8 devices	• Stack MAC Address Switching Delay • Multi-active Detection (MAD) • Virtual MAC
	SDM Template	• Dynamic SDM Template[§] - IPv4 ACL Rules: 10,200 Max - MAC ACL Rules: 10,200 Max - Combined ACL Rules: 5,100 Max - IPv6 ACL Rules: 2,500 Max - IPv4 Source Guard: 8,192 Max - IPv6 Source Guard: 5,099 Max	
	Time Range	• Time Range Config	• Holiday Config
	PTP	• Profile: IEEE 1588v2 (PTPv2), IEEE 802.1AS	• Clock-type: oc, bc, e2etc, p2ptc
	File System	• File Operation • FTP	• TFTP • USB Storage

Software Features^			
Model		SX6632YF	
L2 Features	Port	• Auto Negotiation/Auto MDI/MDIX • Port config - Status - Speed and Duplex - Flow Control (802.3x) - Jumbo Frame: 1518-9216 KB • Port Mirror - Ingress (Many to One) - Egress (Many to One) - RSPAN	• Port Security - Learn mode: Dynamic/Static/Permanent/Sticky - Port Max Learned MAC: 64 - Current Learned Number - Status - Exceed Max Learned Trap • Port Isolation • Loopback Detection - Alert - Port Based - VLAN Based
	Digital Diagnostic Monitoring (DDM)		
	LAG	• Hash Algorithm: SRC MAC/DST MAC/SRC MAC + DST MAC/SRC IP/DST IP/SRC IP + DST IP	• Static LAG: Up to 120 groups, up to 8 ports per group • LACP (802.3ad)
	Traffic Monitor	• TX Packets/Bytes • RX Packets/Bytes • TX Unicast/Multicast/Broadcast • RX Unicast/Multicast/Broadcast	• TX Jumbo • RX Jumbo • TX Errors • RX Errors • TX/RX Packet Size Analysis
	MAC Address	• MAC Address Table: Max 128K entries • IVL/SVL: IVL • Create Static Unicast Address	• Bind Dynamic Address • Create Filtering Address • MAC Notification Settings
	VLAN	• 802.1Q VLAN (802.1q): 4K VLANs • MAC VLAN: 256 entries • Protocol VLAN (IEEE 802.1v) - 16 Protocol VLAN Templates - 12 Protocol VLAN Groups	• QinQ (VLAN VPN): 256 entries • Private VLAN (RFC 5517) • GVRP
	L2 Multicast	• Max Multicast Groups: 4K (IGMP Snooping & MLD Snooping & MVR) • IGMP Snooping - IGMP V1/V2/V3 - Report Message Suppression - Fast Leave - Unknown Multicast Discard - Static Multicast Groups - IGMP Snooping Querier - IGMP Packet Statistics - IGMP Authentication - Multicast Filtering: 256 profiles and 16 entries per profile - Router Port Setting: Static Router Port/Forbidden Router Port	• Multicast Listener Discovery (MLD) Snooping - MLD V1/V2 - Report Message Suppression - Unknown Multicast Discard - Fast Leave - Static Multicast Groups - MLD Snooping Querier - MLD Packet Statistics - Multicast Filtering: 256 profiles and 16 entries per profile - Router Port Setting: Static Router Port/Forbidden Router Port • MVR
	STP	• STP(802.1d) • RSTP(802.1w) • MSTP(802.1s)	• STP Security - Loop Protect - Root Protect - TC Protect - BPDU Protect - BPDU Filter
	LLDP (802.1ab)	• Local Info • Neighbor Info	• Statistic Info • LLDP-MED
	Layer 2 Protocol Tunneling (L2PT)		
	PPPoE ID Insertion	• Circuit-ID Type	• Remote-ID
	ERPS	• V1&V2	• Ring: 64
	Virtual MAC		
	Sticky MAC		

Software Features^

Model		SX6632YF	
L3 Features	IPv4 Interfaces: 4,094 IPv6 Interfaces: 4,094		
	IPv4 Static Routes: 2,048 (shared with IPv6 Static Routes) IPv6 Static Routes: 1,024 (shared with IPv4 Static Routes)		
	IPv4 Host Routes: 16,384 (shared with IPv6 Host Routes) IPv6 Host Routes: 16,384 (shared with IPv4 Host Routes)		
	IPv4 Network Routes: Max 419,840 (shared with IPv6 Network Routes) IPv6 Network Routes: Max 317,400 (shared with IPv4 Network Routes)		
	ECMP	• Max ECMP Routes: 256 • Max ECMP Nexhops per Destination: 32	
	ARP	• Static ARP: 1,024 • Dynamic ARP: 24,576 (shared with ND)	
	ND: 24576 (shared with ARP)		
	DHCPv4	• DHCP Server - IP Pools: 64 - Max Leases: 8,000 - Manual Binding Entries: 1,000 - Exclude IP range Entries: 100	• DHCPv4 Relay • DHCPv4 L2 Relay
	DHCPv6	• DHCPv6 Server - IP Pools: 64 - Max Leases: 8,000 - Manual Binding Entries: 64 - Exclude IP range Entries: 64	• PD Server • DHCPv6 Relay • DHCPv6 L2 Relay
	VRRP	• VRRP V2/V3 • VRRP Instance: 64 • VRRP Virtual IP: 32 per instance	
	OSPF	• OSPFv2 - OSPF Process: 16	• OSPFv3 - OSPFv3 Instance: 1
	RIP	• RIPv1/v2	• RIPng
	VRF	• VRF Instance: 1,024	
	PIM	• PIM-DM (IPv4) • PIM-SM (IPv4) • PIM-SSM (IPv4)	• IPv4 Multicast Route entries: 1,024
	IGMP	• Version: v1/v2/v3	• IGMP Groups: 2,048
	PBR		
QoS	Class of Service	• Priority Queues: 8 Queues • Port Priority • 802.1P Priority • DSCP/ToS Priority	• Priority Schedule Mode: SP/WRR per Queue • Queue Weight Config: For WRR/ SP+WRR Mode
	Bandwidth Control	• Rate Limit - Ingress Rate Limit - Egress Rate Limit - Rate Limit Grade: 64kbps	• Storm Control - Control Mode: kbps/ratio - Broadcast - Multicast - Unknown Unicast
	Voice VLAN	• OUI entries: 64	

Software Features [^]			
Model		SX6632YF	
Network Security	IP-MAC Binding	• Binding entries: 8,192 entries • Manual Binding	• ARP Scanning • DHCP Snooping
	IPv6-MAC Binding	• Binding entries: 8,192 entries • Manual Binding	• DHCPv6 Snooping • ND Snooping
	ARP Inspection	• ARP Detect entries: 8,192 entries • Dynamic ARP Inspection (DAI)	• ARP Defend • ARP Statistics
	ND Detection	• ND Detection entries: 8,192 entries • ND Detect	• ND Statistics
	IP Source Guard	• IP Source Guard entries - Dynamic SDM Template: 8,192 Max	• Security Type - Source IP - Source IP + Source MAC
	IPv6 Source Guard	• IPv6 Source Guard entries - Dynamic SDM Template: 5,099 Max	• Security Type - Source IPv6 - Source IPv6 + Source MAC
	RA Guard: 30 entries		
	DoS Defend	• Scan SYNFIN • Xmascan • NULL Scan	• SYN sPort less 1,024 • Ping Flooding • SYN/SYN-ACK Flooding
	DHCP Filter	• DHCPv4 Filter - Legal Server entries: 200	• DHCPv6 Filter - Legal Server entries: 200
	802.1x	• Control Type - Port Based - MAC Based • Auth Method: PAP/EAP-MD5/EAP-TLS/EAP-TTLS/EAP-PEAP • CoA & DM	• Radius Authentication • Radius Accounting • RADSEC • Guest VLAN • VLAN Assignment • MAB
	Authentication, Authorization, Accounting (AAA)		
	ACL	• Time-Range - Time Slice - Week Time-Range - Absolute Time-Range - Holiday • MAC ACL • IP ACL • Combined ACL • IPv6 ACL • Rule Operation - Permit - Deny • Policy Action - Mirror - Rate Limit - Redirect - QoS Remark • Binding - Port Binding - VLAN Binding	• Dynamic SDM Template[§] - IPv4 ACL Rules: 10,200 Max - IPv6 ACL Rules: 2,500 Max - MAC ACL Rules: 10,200 Max - Combined ACL Rules: 5,100 Max
	CPP (Control Plane Policing)		
	MAC Spoofing Defend		
	MAC Flapping Detection		

Software Features^		
Model		SX6632YF
Maintenance	System Monitor	• CPU Monitor • Memory Monitor
	sFlow	
	OAM	• EFM - Link Monitoring - Remote Failure Indication Config - Statistics
	DLDP	
	SNMP	• SNMP Version: v1/v2c/v3 • SNMP Config - Global Config - SNMP View - SNMP Group - SNMP User - SNMP Community • Notification - Trap: IPv4/IPv6 - Inform: IPv4/IPv6 • RMON v1 • Public MIBs • Private MIBs
	DHCP Auto Install	
	Log	• Display/Filtering • Severity Level • Save to Flash • Remote Host • Backup Log
	Network Diagnostics	• Ping • IPv6 Ping • Tracert • IPv6 Tracert
	Packet Capture	
	Syslog (UDP/TCP/DTLS/TLS)	
	DNS Lookup	
Others	Index	
	Show running config	• Use the show running config command to view device's running status via telnet. • Configuration File: Import/Export/Edit
Omada SDN Controller	Yes	

Others	
Package Content	• SX6632YF Switch • Power Cord • Console Cable • Rackmount Kit • Rubber Feet • Installation Guide
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10/11, MAC® OS, NetWare®, UNIX® or Linux.

Ordering Information

Host Switch	
Model	Description
SX6632YF	Omada 26-Port 10G Stackable L3 Managed Aggregation Switch with 6 25G Slots

Power Supply Module	
Model	Description
PSM550-AC	Omada 550 W AC Power Supply Module

SFP/SFP+/SFP28 Module	
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
SM5110LSA-10	10GBase-BX WDM Bi-Directional SFP+ Module, single-mode, LC connector, TX: 1330 nm/RX: 1270 nm, 10 km
SM5110LSB-10	10GBase-BX WDM Bi-Directional SFP+ Module, single-mode, LC connector, TX: 1270 nm/RX: 1330 nm, 10 km
SM6110-LR	25GBase-LR SFP28 LC Transceiver, SMF (Single-mode fiber), LC connector, 1310 nm, 10 km
SM6110-SR	25GBase-SR SFP28 LC Transceiver, MMF (Multimode fiber), LC connector, 850 nm, 100 m

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

MC Series Media Converter	
Model	Description
MC420L	10G Multi-Gigabit SFP+ Media Converter, up to 100 m, chassis mountable
MC220L	Gigabit SFP Media Converter, up to 100 m, chassis mountable
MC210CS	Gigabit Single-Mode Media Converter, up to 20 km, chassis mountable
MC211CS-20	Gigabit WDM Media Converter, up to 20 km, chassis mountable
MC212CS-20	Gigabit WDM Media Converter, up to 20 km, chassis mountable
MC211CS-2	Gigabit WDM Media Converter, up to 2 km, chassis mountable
MC212CS-2	Gigabit WDM Media Converter, up to 2 km, chassis mountable
MC200CM	Gigabit Multi-Mode Media Converter, up to 550 m, chassis mountable

Direct Attach Cable	
Model	Description
SM6220-1M	1 Meter 25G SFP28 Direct Attach Cable
SM5220-1M	1 Meter 10G SFP+ Direct Attach Cable
SM5220-3M	3 Meters 10G SFP+ Direct Attach Cable

Some features are available only after upgrading to the latest software version.

[§]The Dynamic SDM Template provides dynamic resource allocation for ACLs, IPv4 Source Guard, and IPv6 Source Guard, allowing these features to be configured directly without adjusting the template settings.

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