

TP-LINK OMADA SG5428XF, Managed, L3, Rack mounting

L3 - 20xSFP/4xSFP+ - 16K MAC - 128 Gbit/s - 100-240V - 50/60Hz

Group	Network Equipment
Manufacturer	TP-LINK
Manufacturer item no.	SG5428XF
EAN/UPC	1210002602389



Description

What This Product Does

Omada SG5428XF is a dependable entry-level L3 switch tailored for the aggregation layer, featuring L3 routing, fast 10 Gbps wired speeds, and stacking options. It includes 20× gigabit SFP slots, 4× gigabit RJ45/SFP combo ports, 4× 10 Gbps SFP+ slots, physical stacking ability, and centralized management. Integrated with strong security and extensive management features, the SG5428XF offers a reliable networking solution for SMEs and ISPs.

High-speed Connectivity and Powerful Stacking

20× gigabit SFP slots, 4× gigabit RJ45/SFP combo ports, and 4× 10 Gbps SFP+ slots provide up to 128 Gbps switching capacity per unit. Up to 4 units of physical stacking empower the networking structure with built-in redundancy and performance.

Abundant Layer 3 Capabilities

Comes with abundant Layer 3 routing protocols that support a scalable network. Static Routing, RIP, OSPF, DHCP Server, and DHCP Relay are supported.

Highly Available

ERPS (Ethernet Ring Protection Switching) ensures rapid protection and recovery in ring topologies, which is essential for maintaining network uptime in medium-sized business environments.

Enhanced Security Functions

Defend against a range of network threats with ACL support (IPv4 & IPv6), Dynamic ARP Inspection, IEEE 802.1X, MAB, Port Security, and Secure Shell.

Omada SDN

Integration into the Omada system brings centralized cloud management and a series of management features such as Zero-Touch Provisioning (ZTP).† The Omada Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and gateways, providing 100% centralized cloud management—all controlled from a single interface. Apart from the ability to be centrally managed via the web or the Omada app, SG5428XF is also easy to manage via an intuitive web-based Graphical User Interface (GUI) or an industry-standard Command Line Interface (CLI). For both management methods, traffic is protected through SSL or SSH encryption. SNMP (v1/v2c/v3) and RMON support enable the switch to be polled for valuable status information and to send traps for abnormal events.

Main features

General	
Switch type	Managed
Switch layer	L3
Console port	RJ-45/USB Type-C
MAC address table	16000 entries
Switching capacity	128 Gbit/s
Networking standards	IEEE 802.1Q, IEEE 802.1ab, IEEE 802.1p, IEEE 802.1x, IEEE 802.3ah, IEEE 802.3az, IEEE 802.3x
Rack mounting	Yes

Extended details	
Design	
Rack mounting	Yes
Stackable	Yes
Product colour	Black
Number of fans	1 fan(s)
Management features	
Switch type	Managed
Switch layer	L3
Quality of Service (QoS) support	Yes
Web-based management	Yes
ARP inspection	Yes
Data transmission	
MAC address table	16000 entries
Switching capacity	128 Gbit/s
Number of queues	8
Jumbo frames support	Yes
Jumbo frames	9000
Packet buffer memory	12 MB
Network	
Networking standards	IEEE 802.1Q, IEEE 802.1ab, IEEE 802.1p, IEEE 802.1x, IEEE 802.3ah, IEEE 802.3az, IEEE 802.3x
Port mirroring	Yes
Flow control support	Yes
Link aggregation	Yes
Broadcast storm control	Yes
Rate limiting	Yes
Spanning tree protocol	Yes
VLAN support	Yes

Virtual LAN features	Management VLAN, Multicast VLAN, Private VLAN, Tagged VLAN, Voice VLAN
Power	
Power source	AC
AC input voltage	100 - 240 V
AC input frequency	50/60 Hz
Power consumption (typical)	28.3 W
Power consumption (max)	28.98 W
Ports & interfaces	
Combo SFP ports quantity	4
SFP module slots quantity	20
SFP+ module slots quantity	4
USB Type-A ports quantity	1
Fiber ports quantity	4
Fiber optic connector	SFP
Console port	RJ-45/USB Type-C
Multicast features	
Multicast Listener Discovery (MLD) snooping	Yes
Security	
DHCP features	DHCP relay, DHCP server, DHCP snooping, DHCPv6 snooping
IGMP snooping	Yes
Security algorithms	SNMP, SNMPv2, SNMPv3
IP-MAC-Port binding	Yes
Authentication	Guest VLAN
Authentication type	AAA, TACACS+
Packaging content	
Cables included	AC
Quick start guide	Yes
Rack mount kit	Yes
Operational conditions	
Operating temperature (T-T)	-5 - 45 °C
Storage temperature (T-T)	-40 - 70 °C
Operating relative humidity (H-H)	10 - 90 %
Storage relative humidity (H-H)	5 - 90 %
Heat dissipation	98.822 BTU/h
Weight & dimensions	
Width	440 mm
Depth	220 mm

Height	44 mm
Protocols	
GARP VLAN Registration Protocol (GVRP)	Yes
Routing protocols	OSPF, OSPFv2, OSPFv3, RIP