

NET-TL-SG3428XMP

TP-Link TL-SG3428XMP JetStream 24-Port Gigabit and 4-Port 10GE SFP+ L2+ Managed Switch with 24-Port PoE+

Product Overview

TP-Link TL-SG3428XMP JetStream 24-Port Gigabit and 4-Port 10GE SFP+ L2+ Managed Switch with 24-Port PoE+



Specifications

Features:

- 10G Lightning-Fast Uplink: 4x 10 Gbps SFP+ slots enable high-bandwidth connectivity and non-blocking switching capacity.
- 384 W PoE Budget: 24x 802.3at/af-compliant PoE+ ports with a total power supply of 384 W*.
- Integrated into Omada SDN: Zero-Touch Provisioning (ZTP)**, Centralized Cloud Management, and Intelligent Monitoring.
- Centralized Management: Cloud access and Omada app for ultra convenience and easy management.
- Static Routing: Helps route internal traffic for more efficient use of network resources.
- Robust Security Strategies: IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm control, DHCP Snooping, 802.1X, Radius Authentication, and more.
- Optimize Voice and Video Applications: L2/L3/L4 QoS and IGMP snooping.
- Standalone Management: Web, CLI (Console Port, Telnet, SSH), SNMP, RMON, and Dual Image bring powerful management capabilities

10G Lightning-Fast Uplink Connection

4x 10 Gbps SFP+ Slots for High-Bandwidth Connectivity

PoE+ Output

24x Gigabit PoE+ Ports with Total 384 W Power Budget*

Centralized Cloud Management

SDN Solutions Integration for a Highly Efficient Network

Advanced L2+ Features

Static Routing, IGMP Snooping, 802.1Q VLAN and More

Enterprise Switch with 10G Uplink

4x 10 Gbps SFP+ slots provide non-blocking switching performance and ultra-low latency, so reliable and lightning-fast connections to servers and other switches are easily built.

Dedicated 24 PoE+ Ports (384 W Budget) for Numerous Applications

Features 24x 802.3af/at compliant PoE+ ports, the switch supports up to 384 W total PoE power budget.* Designed to use a single Ethernet cable for both data and power transmission, it offers flexible deployment for PoE-supported devices such as wireless access points, IP cameras, and IP phones, lowering infrastructure costs for small businesses.

Software-Defined Networking (SDN) with Cloud Access

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. Seamless wireless and wired connections are provided, ideal for use in hospitality, education, retail, offices, and more.

Advanced L3 Features

An abundance of L2+ and L3 features are supported to help build a highly scalable and robust network, providing a reliable and efficient solution for enterprises, campuses and ISPs.***

Secure Networking

Security features include IP-MAC-Port-VID Binding, Port Security, Storm Control, and DHCP Snooping to defend against a range of network threats. An integrated list of common DoS attacks is available, making it easier than ever to prevent them. In addition, the Access Control Lists (ACL, L2 to L4) feature restricts access to sensitive network resources by denying packets based on source and destination MAC address, IP address, TCP/UDP ports, or VLAN ID. Users' network access can be controlled via 802.1X authentication, which works with a RADIUS/Tacacs+ server to grant access only when valid user credentials are provided.

Enterprise Level Features

A complete lineup of L2+ features is supported, including 802.1Q VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol, and 802.3x Flow Control. Advanced IGMP Snooping ensures the switch intelligently forwards multicast streams to only the appropriate subscribers, cutting out unnecessary traffic, while IGMP throttling & filtering restrict each subscriber on a port level to prevent unauthorized multicast access. Static Routing is a simple way of segmenting the network and internally routes traffic through the switch for improved efficiency.

Advanced QoS

Voice and video traffic can be prioritized based on IP address, MAC address, TCP port number, UDP port number, and more. With QoS (Quality of Service), voice and video services remain smooth, even when bandwidth is in short supply.

ISP Features***

sFlow, QinQ, L2PT PPPoE ID Insertion, and IGMP authentication features are provided, developed with service providers in mind. 802.3ah OAM and Device Link Detection Protocol (DLDP) offer easy monitoring and troubleshooting of Ethernet links.

IPv6 Support

IPv6 functions such as Dual IPv4/IPv6 Stack, MLD Snooping, IPv6 ACL, DHCPv6 Snooping, IPv6 Interface, Path Maximum Transmission Unit (PMTU) Discovery, and IPv6 Neighbor Discover guarantee your network is ready for the Next Generation Network (NGN) without upgrading your hardware.

Specifications:

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Specifications

Product Code

NET-TL-SG3428XMP

HARDWARE FEATURES

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Product Specification Sheet

Interface	24x 10/100/1000 Mbps RJ45 Ports
	4x 10G SFP+ Slots
	1x RJ45 Console Port
	1x Micro-USB Console Port
Fan Quantity	2
Power Supply	100-240 V AC~50/60 Hz
PoE+ Ports(RJ45)	Standard: 802.3at/af compliant
	PoE+ Ports: 24 Ports, up to 30 W per port
	Power Budget: 384 W
Dimensions (W x D x H)	17.3 x 13.0 x 1.7 in (440 x 330 x 44 mm)
Mounting	Rack Mountable
Max Power Consumption	34.4 W (110V/60Hz) (no PD device connected)
	465.8 W (110V/60Hz) (with 384 W PD device connected)
Max Heat Dissipation	117.38 BTU/h (110 V/60 Hz) (no PD device connected)
	1589.31 BTU/h (110 V/60 Hz) (with 384 W PD device connected)
PERFORMANCE	
Switching Capacity	128 Gbps
Packet Forwarding Rate	95.23 Mpps
MAC Address Table	16 K
Jumbo Frame	9 KB
SOFTWARE FEATURES	
Quality of Service	8 priority queues
	802.1p CoS/DSCP priority
	Queue scheduling
	- SP (Strict Priority)
	- WRR (Weighted Round Robin)
	- SP+WRR
	Bandwidth Control
	- Port/Flow based Rating Limiting
	Smoother Performance
	Action for Flows
	- Mirror (to supported interface)
	- Redirect (to supported interface)
	- Rate Limit
	- QoS Remark

L2 and L2+ Features	Link Aggregation
	- static link aggregation
	- 802.3ad LACP
	- Up to 8 aggregation groups, containing 8 ports per group
	Spanning Tree Protocol
	- 802.1d STP
	- 802.1w RSTP
	- 802.1s MSTP
	- STP Security: TC Protect, BPDU Filter, Root Protect
	Loopback Detection
	- Port based
	- VLAN based
	Flow Control
	- 802.3x Flow Control
	- HOL Blocking Prevention
	Mirroring
	- Port Mirroring
	- CPU Mirroring
	- One-to-One
	- Many-to-One
	- Tx/Rx/Both
L2 Multicast	IGMP Snooping
	- IGMP v1/v2/v3 Snooping
	- Fast Leave
	- IGMP Snooping Querier
	- IGMP Authentication
	IGMP Authentication
	MLD Snooping
	- MLD v1/v2 Snooping
	- Fast Leave
	- MLD Snooping Querier
	- Static Group Config
	- Limited IP Multicast
	MVR
	Multicast Filtering: 256 profiles and 16 entries per profile

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Product Specification Sheet

VLAN	VLAN Group
	- Max 4K VLAN Groups
	802.1Q Tagged VLAN
	MAC VLAN: 7 Entries
	Protocol VLAN: Protocol Template 16, Protocol VLAN 16
	Private VLAN
	GVRP
	VLAN VPN (QinQ)
	- Port-Based QinQ
	- Selective QinQ
	Voice VLAN
Access Control List	Time-based ACL
	MAC ACL
	- Source MAC
	- Destination MAC
	- VLAN ID
	- User Priority
	- Ether Type
	IP ACL
	-Source IP
	- Destination IP
	- Fragment
	- IP Protocol
	- TCP Flag
	- TCP/UDP Port
	- DSCP/IP TOS
	- User Priority
	Combined ACL
	Packet Content ACL
	IPv6 ACL
	Policy
	- Mirroring
	- Redirect
	- Rate Limit
	- QoS Remark
	ACL apply to Port/VLAN

Security	IP-MAC-Port Binding
	- 512 Entries
	- DHCP Snooping
	- ARP Inspection
	- IPv4 Source Guard: 100 Entries
	IPv6-MAC-Port Binding
	- 512 Entries
	- DHCPv6 Snooping
	- ND Detection
	- IPv6 Source Guard: 100 Entries
	DoS Defend
	Static/Dynamic Port Security
	- Up to 64 MAC addresses per port
	Broadcast/Multicast/Unicast Storm Control
	- kbps/ratio control mode
	802.1X
	- Port base authentication
	- Mac base authentication
	- VLAN Assignment
	- MAB
	- Guest VLAN
	- Support Radius authentication and accountability
	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

IPv6	IPv6 Dual IPv4/IPv6
	Multicast Listener Discovery (MLD) Snooping
	IPv6 ACL
	IPv6 Interface
	Static IPv6 Routing
	IPv6 neighbor discovery (ND)
	Path maximum transmission unit (MTU) discovery
	Internet Control Message Protocol (ICMP) version 6
	TCPv6/UDPv6
	IPv6 applications
	- DHCPv6 Client
	- Ping6
	- Tracert6
	- Telnet (v6)
	- IPv6 SNMP
	- IPv6 SSH
	- IPv6 SSL
	- Http/Https
	- IPv6 TFTP
L3 Features	16 IPv4/IPv6 Interfaces
	Static Routing
	- 48 static routes
	Static ARP
	- 128 Static Entries
	Proxy ARP
	Gratuitous ARP
	DHCP Server
	DHCP Relay
	- DHCP Interface Relay
	- DHCP VLAN Relay
	DHCP L2 Relay

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Product Specification Sheet

Management	Web-based GUI
	Command Line Interface (CLI) through the console port, telnet
	SNMP v1/v2c/v3
	- Trap/Inform
	- RMON (1,2,3,9 groups)
	SDM Template
	DHCP/BOOTP Client
	802.1ab LLDP/LLDP-MED
	DHCP AutoInstall
	Dual Image, Dual Configuration
	CPU Monitoring
	Cable Diagnostics
	EEE
	Password Recovery
	SNTP
	System Log
Advanced Features	Support Omada Hardware Controller (OC200/OC300), Software Controller, Cloud-Based Controller
	Automatic Device Discovery
	Batch Configuration
	Batch Firmware Upgrading
	Intelligent Network Monitoring
	Abnormal Event Warnings
	Unified Configuration
	Reboot Schedule
	ZTP (Zero-Touch Provisioning)
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

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Product Specification Sheet

OTHERS	
Certification	CE, FCC, RoHS
Package Contents	TL-SG3428XMP Switch
	Power Cord
	Quick Installation Guide
	Rackmount Kit
	Rubber Feet
Environment	Operating Temperature: 0-45 degreesC (32-113 degreesF);
	Storage Temperature: -40-70 degreesC (-40-158 degreesF)
	Operating Humidity: 10-90% RH non-condensing
	Storage Humidity: 5-90% RH non-condensing

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/NET-TL-SG3428XMP-TP-Link-TL-SG3428XMP-JetStream-24-Buy-p-259864.php>

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