

NET-TL-SG3428MP

TP-Link TL-SG3428MP JetStream 28-Port Gigabit L2 Managed Switch with 24-Port PoE+

Product Overview

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Specifications

Features:

- 384 W PoE Budget: 24x 802.3at/af-compliant PoE+ ports with a total power supply of 384 W*.
- Full Gigabit Ports: 24x gigabit PoE+ ports and 4x gigabit SFP Slots provide high-speed connections.
- 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.

PoE+ Output

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

Centralized Cloud Management

SDN Solutions Integration for a Highly Efficient Network

Robust Security Strategies

LAN Area Investment Protection

Advanced L2+ Features

Static Routing, IGMP Snooping 802.1 Q VLAN and More

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.

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.

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.

Abundant L2 and L2+ 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.

ISP Features

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.

Enterprise Level Management Features

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 enables the switch to be polled for valuable status information and to send traps on abnormal events.

Specifications:

HARDWARE FEATURES	
Interface	24x 10/100/1000Mbps RJ45 Ports
	4x Gigabit 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

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Product Specification Sheet

Max Power Consumption	34.4 W (110 V/60 Hz) (no PD connected)
	465.8 W (110 V/60 Hz) (with 384 W PD connected)
Max Heat Dissipation	117.38 BTU/h (110 V/60 Hz) (no PD connected)
	1589.31 BTU/h (110 V/60 Hz) (with 384 W PD connected)
PERFORMANCE	
Switching Capacity	56 Gbps
Packet Forwarding Rate	41.66 Mpps
MAC Address Table	16K
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 and up to 8 ports per group
	Spanning Tree Protocol
	- 802.1d STP
	- 802.1w RSTP
	- 802.1s MSTP
	- STP Security: TC Protect, BPDU Filter, BPDU 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
	- Many-to-One
	- Tx/Rx/Both
L2 Multicast	Supports 511 (IPv4, IPv6) IGMP groups
	IGMP Snooping
	- IGMP v1/v2/v3 Snooping
	- Fast Leave
	- IGMP Snooping Querier
	- IGMP Authentication
	IGMP Authentication
	MVR
	MLD Snooping
	- MLD v1/v2 Snooping
	- Fast Leave
	- MLD Snooping Querier
	- Static Group Config
	- Limited IP Multicast
	Multicast Filtering: 256 profiles and 16 entries per profile

VLAN	VLAN Group
	- Max 4K VLAN Groups
	802.1Q Tagged VLAN
	MAC VLAN: 12 Entries (30 Entries for TL-SG3428 V2.0 & TL-SG3428MP V2.0)
	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
	- DHCP Snooping
	- ARP Inspection
	- IPv4 Source Guard
	IPv6-MAC-Port Binding
	- DHCPv6 Snooping
	- ND Detection
	- IPv6 Source Guard
	DoS Defend
	Static/Dynamic Port Security
	- Up to 64 MAC addresses per port
	Broadcast/Multicast/Unicast Storm Control
	- kbps/ratio/pps control mode
	IP/Port/MAC based access control
	802.1X
	- Port based authentication
	- Mac based 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

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
	316 ARP Entries (512 ARP Entries for TL-SG3428 V2.0 & TL-SG3428MP V2.0)
	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 console port, telnet
	SNMPv1/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
	Automatic Device Discovery
	Batch Configuration
	Batch Firmware Upgrading
	Intelligent Network Monitoring
	Abnormal Event Warnings
	Unified Configuration
	Reboot Schedule
OTHERS	
Certification	CE, FCC, RoHS
Package Contents	TL-SG3428MP 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-computers.co.za/NET-TL-SG3428MP-TP-Link-TL-SG3428MP-JetStream-28-Port-Buy-p-259770.php>

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