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Product Specification Sheet

TP-SG3428MP

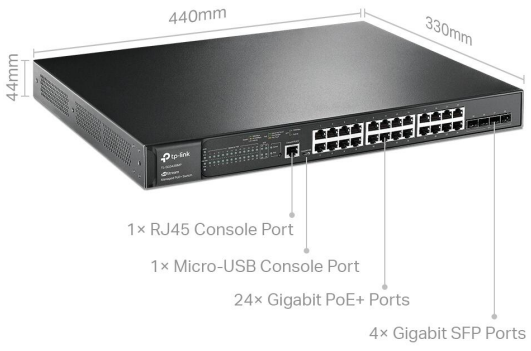
TP-Link JetStream 28 Port Gigabit L2 managed Switch with 24 Port PoE+

Product Overview

TP-Link SG3428MP JetStream 28 Port Gigabit L2 managed Switch with 24 Port PoE+, 24x 10/100/1000 Mbps RJ45 Ports, 4x Gigabit SFP slots, PoE+ 24 Ports up to 30 W per Port, 384 W Power budget, Rack mountable, 56 Gbps switching capacity







Specifications

Overview Summary:

The TP-Link SG3428MP JetStream is a robust 28-port Gigabit managed switch designed for South African businesses seeking reliable and scalable network connectivity. With 24 PoE+ ports delivering up to 30 W each and a total 384 W power budget, this switch makes powering devices like IP cameras, VoIP phones, and wireless access points seamless. It supports high-speed connections through 24 RJ45 Gigabit ports and 4 SFP slots, ensuring efficient data transmission across your network. Shop now to enhance your office or business network setup with centralized cloud management and intelligent monitoring.

Built for performance and security, the SG3428MP includes advanced L2+ and IPv6 support, static routing, VLAN segmentation, and comprehensive security features like IP-MAC-Port binding and DoS attack prevention. Optimize your network for voice and video with QoS prioritization. Buy now to simplify deployment and enjoy a future-proof networking solution.

Performance tier: Enterprise

Uses: Business networking, VoIP, IP cameras, wireless access points, office and retail networks

Overview:

JetStream 28-Port Gigabit L2+ Managed Switch with 24-Port PoE+
The TP-Link SG3428MP JetStream is a high-performance 28-port Gigabit managed switch designed for businesses that demand reliable, scalable, and secure network connectivity. With 24 PoE+ ports, 4 Gigabit SFP slots, and a total power budget of 384 W, this switch simplifies deployment of network devices while supporting advanced management and security features.

Description:

The SG3428MP delivers seamless power and data transmission over a single Ethernet cable, making it ideal for IP cameras, VoIP phones, and wireless access points. Integrated into the Omada SDN platform, it enables centralized cloud management, intelligent monitoring, and easy zero-touch provisioning. Enhanced QoS, static routing, and robust security measures ensure efficient and secure network operation for small and medium-sized businesses, hospitality, retail, and office environments.

Features:

Dedicated 24-Port PoE+ for Flexible Deployments
Equipped with 24 PoE+ ports, each delivering up to 30 W, this switch allows you to power devices while transmitting data through a single cable. The 384 W total PoE budget supports multiple devices, reducing installation costs and simplifying network setups.

- 24x Gigabit PoE+ ports
- Up to 30 W per port
- 384 W total power budget

High-Speed Connections and L2+ Capabilities
The SG3428MP includes 24 full Gigabit RJ45 ports and 4 Gigabit SFP slots, offering reliable high-speed connections. Advanced L2+ capabilities, such as static routing, VLAN support, and IGMP snooping, allow for efficient traffic management and network segmentation.

- Static routing for internal traffic optimization
- IGMP snooping and filtering for multicast control
- 802.1Q VLAN, Port Mirroring, STP/RSTP/MSTP

Cloud-Based Software Defined Networking (SDN)
Integrated with the Omada SDN platform, the switch allows centralized cloud management of switches, access points, and routers. The intuitive Omada app enables easy deployment, monitoring, and troubleshooting from a single interface, supporting highly scalable wired and wireless networks.

Enhanced Network Security
Protect your network with comprehensive security measures including IP-MAC-Port binding, port security, ACLs, DHCP snooping, 802.1X authentication, and DoS attack prevention. These features safeguard sensitive resources and control user access effectively.

- Layered security strategies to prevent unauthorized access
- Storm control and DoS defense for reliable performance
- Access control via 802.1X and RADIUS authentication

Optimized Performance for Voice and Video
Quality of Service (QoS) ensures that voice and video traffic receive priority, maintaining smooth communication even when network bandwidth is constrained. Advanced L2/L3/L4 QoS supports prioritization based on IP, MAC, or port numbers.

Service Provider Ready Features:

Designed with ISPs in mind, the switch includes QinQ, L2PT, PPPoE ID insertion, IGMP authentication, and Ethernet link monitoring through 802.3ah OAM and DLDP.

Future-Proof IPv6 Support
With dual IPv4/IPv6 stacks, DHCPv6 snooping, MLD snooping, IPv6 ACL, and PMTU discovery, the SG3428MP ensures your network is ready for next-generation networking without additional hardware upgrades.

Enterprise-Level Management
Manage the switch easily through a web-based GUI or command-line interface with SSL/SSH encryption. SNMP (v1/v2c/v3) and RMON support allow monitoring, polling, and event alerts for proactive network management.

Specifications:

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Specifications	
Product Code	TP-SG3428MP
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
Max Power Consumption	V1: 463.8 W (110 V/60 Hz) (with 384 W PD connected), 31.0 W (110 V/60 Hz) (no PD connected)
	V2: 465.8 W (110 V/60 Hz) (with 384 W PD connected), 34.4 W (110 V/60 Hz) (no PD connected)
	V3: 442.1 W (220 V/50 Hz) (with 384 W PD connected)
	V4: 460.8 W (110 V/60 Hz) (with 384 W PD connected)
	V5: 456.4 W (110 V/60 Hz) (with 384 W PD connected)

Max Heat Dissipation	V1: 1582.49 BTU/h (110 V/60 Hz) (with 384 W PD connected), 105.78 BTU/h (110 V/60 Hz) (no PD connected)
	V2: 1589.31 BTU/hr (110 V/60 Hz) (with 384 W PD connected), 117.38 BTU/hr (110 V/60 Hz) (no PD connected)
	V3: 1508.67 BTU/hr (220 V/50 Hz) (with 384 W PD connected)
	V4: 1572.48 BTU/hr (110 V/60 Hz) (with 384 W PD connected)
	V5: 1557.47 BTU/hr (110 V/60 Hz) (with 384 W PD connected)
PERFORMANCE	
Switching Capacity	56 Gbps
Packet Forwarding Rate	41.66 Mpps
MAC Address Table	V1: 8K
	V2 and above: 16K
Packet Buffer Memory	4.1 Mbit
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: 30 Entries (12 Entries for TL-SG3428MP V1.0)
	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

Advanced Features	Automatic Device Discovery
	Batch Configuration
	Batch Firmware Upgrading
	Intelligent Network Monitoring
	Abnormal Event Warnings
	Unified Configuration
	Reboot Schedule
MIBs	MIB II (RFC1213)
	Bridge MIB (RFC1493)
	P/Q-Bridge MIB (RFC2674)
	Radius Accounting Client MIB (RFC2620)
	Radius Authentication Client MIB (RFC2618)
	Remote Ping, Traceroute MIB (RFC2925)
	Support TP-Link private MIBs
	RMON MIB(RFC1757, rmon 1,2,3,9)
MANAGEMENT	
Omada App	Yes, through
	Omada Cloud-Based Controller (Not Supported by TL-SG2210P v4)
	OC300
	OC200
	Omada Software Controller
Centralized Management	Omada Cloud-Based Controller (Not Supported by TL-SG2210P v4)
	Omada Hardware Controller OC300
	Omada Hardware Controller OC200
	Omada

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/TP-SG3428MP-TP-Link-JetStream-28-Port-Gigabit-L2-managed-Switch-with-24-Port-PoE-p-327118.php

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