ComX Computers
Product Specification Sheet

TP SG3428XMP

TP-Link JetStream 24 Port Gigabit PoE+ & 4 port 10GE SPF+ L2+ managed Switch

Product Overview

TP-Link SG3428XMP JetStream 24 Port Gigabit PoE+ & 4 port 10GE SPF+ L2+ managed Switch, 24x 10/100/1000 Mbps RJ45 Ports, 4x 10G SFP+ slots, PoE+ 24 Ports up to 30 W per Port, 384 W Power budget, Rack mountable, 128 Gbps switching capacity







Specifications

Overview Summary:

Upgrade your business infrastructure with the TP-Link TL-SG3428XMP, a robust L2+ managed switch designed for growing enterprises in South Africa. This unit delivers reliable connectivity through 24 Gigabit PoE+ ports and four high-speed 10G SFP+ uplinks, making it perfect for powering IP cameras, Wi-Fi access points, and VoIP phones while ensuring low-latency performance for critical data traffic.

Manage your entire network effortlessly with seamless integration into the Omada SDN platform, allowing for centralized cloud control and intelligent monitoring. With advanced security features like 802.1X authentication and robust QoS optimization, you can prioritize voice and video calls without interruption. Secure your investment today by buying now to ensure your network scales efficiently and securely.

Performance tier: Enterprise Grade

Uses: Office networking, IP surveillance systems, VoIP deployments, wireless access point backhaul, data center uplinks

Overview:

The TL-SG3428XMP JetStream stands as a robust L2+ managed switch tailored for growing businesses and enterprise environments that demand high performance. With 24 gigabit PoE+ ports and four high-speed 10G SFP+ uplinks, this unit delivers reliable connectivity with ultra-low latency, ensuring seamless communication across your infrastructure. Its integration with the Omada SDN platform simplifies network setup, monitoring, and scaling, while advanced traffic management and security controls keep data flowing smoothly.

Description:

The TP-Link SG3428XMP is a high-capacity switching solution designed to power modern networks. It features 24 PoE+ ports capable of delivering up to 30 watts per port, backed by a total power budget of 384 watts, making it ideal for deploying IP cameras, wireless access points, and VoIP phones without complex wiring. The inclusion of four 10G SFP+ slots ensures high-bandwidth connections for servers and backbone links, while centralized cloud management via Omada allows administrators to configure and monitor the entire network from a single interface.

Features:

High-Speed Connectivity for Enterprise Networks
This switch delivers non-blocking switching performance with a capacity of 128 Gbps, ensuring that your critical applications run without lag. The four 10G SFP+ uplinks provide the necessary bandwidth to handle heavy server and storage traffic, while the twenty-four Gigabit ports ensure that end-user devices connect reliably. This combination supports seamless integration with other switches in your network backbone.

PoE+ Ports for Flexible Device Deployment
Simplifying installation is a core strength of this model. By supporting up to 30 W per port across all twenty-four RJ45 connections, the switch can power connected devices directly through the Ethernet cable. This reduces the need for separate power adapters and extra cabling, lowering overall wiring costs and improving efficiency in spaces like offices, retail stores, and hotels.

Centralized Cloud Management via Omada SDN
Managing a large network becomes effortless with full integration into the Omada SDN ecosystem. Administrators can control switches, access points, and gateways from a unified cloud interface. Features such as zero-touch provisioning allow new devices to be configured automatically upon connection, while centralized monitoring provides real-time insights into network health.

Advanced Traffic and Routing Management
The TL-SG3428XMP includes extensive L2+ and L3 capabilities that enhance traffic segmentation and reduce congestion. Support for static routing, VLANs, and IGMP snooping ensures efficient data flow across the network. Quality of Service (QoS) tools prioritize voice, video, and critical data based on IP, MAC, or VLAN settings, guaranteeing uninterrupted performance even during peak usage times.

Robust Security Controls
Protecting your network resources is straightforward with a comprehensive suite of security features. The switch supports IP-MAC-Port binding, port security, ACLs, DHCP snooping, and storm control to mitigate threats. Additional measures like DoS attack prevention and 802.1X authentication ensure that only authorized users can access sensitive resources.

Service Provider Ready
Designed with scalability in mind, the switch supports advanced protocols such as sFlow, QinQ, and L2PT PPPoE ID insertion.

These capabilities simplify link monitoring and troubleshooting for service providers. Full IPv6 support is also included, ensuring readiness for next-generation networks with dual stack capabilities and various discovery tools.

The TP-Link SG3428XMP model number identifies this specific configuration of the JetStream series. It combines hardware reliability with software flexibility to create a network foundation that can grow alongside your business needs.

Key Technical Specifications:

- Switching Capacity: 128 Gbps
- PoE+ Ports: 24 ports, up to 30 W per port (Total Budget: 384 W)
- Uplink Slots: 4x 10G SFP+
- Total Interfaces: 24x Gigabit RJ45 + 4x 10G SFP+ + Console
- VLAN Support: Up to 4K VLAN Groups including Voice and Private VLANs
- Security Protocols: 802.1X, RADIUS, ACLs, DHCP Snooping, IP-MAC-Port Binding
- Management Interface: Web GUI, CLI via Console or Telnet/SSH, SNMP v3
- Power Supply: 100-240 V AC~50/60 Hz
- Dimensions: 17.3 x 13.0 x 1.7 inches (Rack Mountable)

What's in the box

- TL-SG3428XMP Managed Switch
- Rack Mount Kit
- Console Cable
- User Guide and Installation CD
- Powder cord for power connection

This L2+ managed switch serves as a powerful backbone for medium to large networks, balancing high-speed data transfer with intelligent power delivery. Whether you are deploying a new network or upgrading an existing one, the combination of Omada SDN integration and robust hardware specifications ensures a stable and secure environment.

Specifications:

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Specifications	
Product Code	TP SG3428XMP
HARDWARE FEATURES	
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
Packet Buffer Memory	12 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, 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

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 andaccountability
	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

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

FAQ

Can this switch power devices like IP cameras and access points?
The TL-SG3428XMP includes 24 PoE+ ports that deliver up to 30 W per port, with a total power budget of 384 W, making it suitable for powering IP cameras, wireless access points, and VoIP phones.

What kind of high-speed connections does this switch offer?
In addition to the gigabit ports, the unit features four 10G SFP+ slots that provide non-blocking, ultra-low latency connectivity ideal for servers, storage, and backbone links.

How can I manage multiple devices in my network efficiently?
This switch integrates with the Omada SDN platform to enable centralized cloud management, zero-touch provisioning, and remote configuration for easier scaling across offices or retail spaces.

Does this switch support advanced routing and security features?:

Yes, it supports L2+ and L3 functions like static routing, VLANs, and IGMP snooping, along with robust security controls including 802.1X authentication, IP-MAC-Port binding, and DoS attack prevention.

Is this switch suitable for environments requiring IPv6 or voice traffic prioritization?
The device offers full dual-stack support for both IPv4 and IPv6 networks and includes QoS capabilities to prioritize voice and video data, ensuring smooth performance during peak usage.

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-SG3428XMP-TP-Link-JetStream-24-Port-Gigabit-PoE-4-port-10GE-SPF-L2-managed-Switch-p-342247.php

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