ComX Computers
Product Specification Sheet

TP SG3428

TP-Link JetStream 24 port Gigabit L2+ managed Switch with 4 SFP slots

Product Overview

TP-Link SG3428 JetStream 24 port Gigabit L2+ managed Switch with 4 SFP slots, 24x 10/100/1000 Mbps RJ45 Ports, 4x Gigabit SFP slots, 1x RJ45 Console Port, 1x Micro-USB Console Port, Fanless, Rack mountable







Specifications

Overview Summary:

Upgrade your local network infrastructure with the TP-Link TL-SG3428, a high-performance 24-port Gigabit L2+ managed switch designed specifically for South African businesses seeking reliable connectivity. This JetStream model delivers robust security features including ACLs and port security while offering seamless integration with Omada SDN solutions for centralized cloud management.

With its fanless design and compact rack-mountable form factor, the SG3428 ensures quiet operation perfect for server rooms or office environments without compromising on performance. Secure your network today by purchasing this advanced switching solution now to enable high-speed data transfer and intelligent traffic routing across all 24 ports.

Performance tier: Enterprise Level

Uses: Network segmentation, VoIP support, video conferencing, server connectivity, wireless access point uplinks, network security enforcement

Overview:

TP-Link SG3428 Overview:

The TP-Link SG3428 JetStream switch is a robust L2+ managed solution designed to elevate network performance for growing businesses. With 24 Gigabit RJ45 ports and four additional SFP slots, this device offers the flexibility needed to support both copper and fiber connections seamlessly. Its fanless design ensures silent operation, making it an ideal choice for office environments or server rooms where noise reduction is critical. The switch integrates effortlessly with Omada SDN, allowing for centralized cloud management and zero-touch provisioning, which simplifies network administration significantly.

Description:

This high-performance managed switch delivers reliable connectivity with a switching capacity of 56 Gbps and a packet forwarding rate of 41.66 Mpps, ensuring smooth data flow even under heavy traffic loads. Key benefits include advanced security protocols like IP-MAC-Port Binding and DoS defense to protect your network infrastructure. The device supports L2/L3/QoS optimization for voice and video applications, while the Omada ecosystem enables intuitive monitoring and configuration through a mobile app or web interface. Part number TP SG3428 identifies this specific model equipped with rack-mountable hardware and dual image support for enhanced reliability.

Features:

Key Connectivity and Performance

The unit features 24 ports that support speeds of 10/100/1000 Mbps, alongside four dedicated Gigabit SFP slots for fiber optic expansion. It includes one RJ45 console port and a Micro-USB console port for local management access. The hardware is built to be fanless with dimensions measuring 17.3 x 7.1 x 1.7 inches, consuming up to 19.22 W of power while dissipating heat efficiently at 65.58 BTU/h. Designed for flexibility, the switch supports rack mounting and operates within a temperature range of 0 to 45 degrees Celsius.

Advanced Management and Security

- Centralized cloud management via Omada app or web interface with zero-touch provisioning capabilities
- Robust security suite including IP-MAC-Port Binding, ACLs, Port Security, DoS Defense, and Storm Control
- Comprehensive Layer 2+ features such as Static Routing, VLAN support up to 4K groups, and LACP link aggregation
- Quality of Service (QoS) with 8 priority queues for optimized voice and video traffic
- Secure access through HTTPS with SSLv3/TLS 1.2 and SSH management protocols

Technical Specifications and Protocols:

- Switching capacity of 56 Gbps with a forwarding rate of 41.66 Mpps
- MAC address table supports up to 8K entries with Jumbo Frame capability up to 9 KB
- Supports IPv4 and IPv6 dual-stack with static routing, DHCP server/relay functions, and IPv6 ACLs
- IGMP Snooping v1/v2/v3 for efficient multicast traffic handling
- RMON monitoring groups (1, 2, 3, 9) for detailed network diagnostics and event alarms

What's in the box

- TL-SG3428 Switch unit
- Power cord
- Quick installation guide
- Rackmount kit
- Rubber feet for desktop placement

This model, identified by part number TP SG3428, is certified under CE, FCC, and RoHS standards to ensure compliance with international safety regulations. The device includes automatic device discovery, batch configuration options, and firmware upgrading tools to streamline maintenance tasks across your network infrastructure.

Specifications:

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Specifications	
Product Code	TP SG3428
HARDWARE FEATURES	
Interface	24x 10/100/1000 Mbps RJ45 Ports
	4x Gigabit SFP Slots
	1x RJ45 Console Port
	1x Micro-USB Console Port
Fan Quantity	Fanless
Power Supply	100-240 V AC~50/60 Hz
Dimensions (W x D x H)	17.3 x 7.1 x 1.7 in (440 x 180 x 44 mm)
Mounting	Rack Mountable
Max Power Consumption	19.22 W (110 V/60 Hz)
Max Heat Dissipation	65.58 BTU/h (110 V/60 Hz)
PERFORMANCE	
Switching Capacity	56 Gbps
Packet Forwarding Rate	41.66 Mpps
MAC Address Table	8K
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
	Protocol VLAN: Protocol Template 16, Protocol VLAN 16
	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
	316 ARP Entries
	Proxy ARP
	Gratuitous ARP
	DHCP Server
	DHCP Relay
	DHCP L2 Relay

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, 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)
OTHERS	
Certification	CE, FCC, RoHS
Package Contents	TL-SG3428 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

FAQ

Can this switch be managed remotely via the cloud?
The TL-SG3428 integrates with Omada SDN, allowing for centralized cloud management and access through the Omada app for convenient remote monitoring and control.

How many ports are available on this device?
This unit features 24x Gigabit RJ45 ports plus 4x Gigabit SFP slots, providing a total of 28 high-speed connection options for your network infrastructure.

Does the TL-SG3428 require cooling fans to operate?
No, this switch is designed with a fanless architecture, making it silent and suitable for noise-sensitive environments while maintaining reliable performance.

Is installation into a standard rack difficult?
The device comes with a dedicated rackmount kit included in the package, ensuring straightforward mounting for professional deployment setups.

What security features are available to protect my network?:

The switch offers robust protection including IP-MAC-Port Binding, DoS Defend, 802.1X authentication, and various storm controls to secure your data traffic.

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-SG3428-TP-Link-JetStream-24-port-Gigabit-L2-managed-Switch-with-4-SFP-slots-p-342248.php

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