ComX Computers
Product Specification Sheet

TP SG3452XP

TP-Link JetStream 48-Port Gigabit L2+ Managed Switch

Product Overview

TP-Link TL-SG3452XP JetStream 48-port Gigabit L2+ managed Switch, 48 x 10/100/1000 Mbps RJ45 PoE+ Ports, 4x 10G SFP+ slots, 1x Micro-USB Console Port, 3 fan, 48 Ports PoE+ Ports, Up to 30 W per Port, 500 W Power budget, Rack mountable, 176 Gbps switching capacity







Specifications

Overview Summary:

Upgrade your business infrastructure with the TP-Link TL-SG3452XP JetStream 48-port Gigabit L2+ managed switch, now available for purchase in South Africa. This robust networking solution delivers high-speed performance with forty-eight PoE+ ports and four dedicated 10 Gbps SFP+ slots, ensuring seamless connectivity for your entire network. Its comprehensive support for Omada SDN allows for centralized cloud management, making it the ideal choice for scalable enterprise environments.

Designed to power and connect devices like IP cameras, wireless access points, and VoIP phones simultaneously, this switch offers a generous 500 W PoE+ budget. Secure your network with advanced features including ACLs, port security, and 802.1X authentication while enjoying lightning-fast data transfer rates. Don't wait to optimize your connectivity; buy now to secure the best deal on this premium networking hardware.

Performance tier: Enterprise

Uses: Server connection, IP cameras, wireless access points, VoIP phones, network backbone, cloud management

Overview:

Designed for demanding enterprise environments, the TP-Link TL-SG3452XP JetStream switch delivers a powerful combination of high-speed connectivity and robust power delivery. This L2+ managed switch serves as a backbone for scalable networks, featuring forty-eight Gigabit PoE+ ports capable of supplying up to 30 watts per port with a total budget of 500 watts. This capacity allows administrators to deploy numerous wireless access points, IP cameras, and VoIP phones without the need for separate power adapters, significantly reducing cabling complexity and infrastructure costs.

Description:

The TL-SG3452XP is a high-performance L2+ managed switch engineered to support growing network demands. It combines 48 Gigabit PoE+ ports with four dedicated 10G SFP+ uplink slots, ensuring lightning-fast data transfer and non-blocking switching performance. Integrated with the Omada SDN platform, this device offers seamless centralized cloud management, allowing for intuitive monitoring and configuration of wired and wireless networks from a single interface. With advanced security protocols including 802.1X authentication and ACLs, it protects network assets while maintaining high availability through redundant power options and efficient cooling systems.

Features:

Key Connectivity Features:

At the heart of this device is its extensive port configuration designed for flexibility and speed. The unit provides forty-eight 10/100/1000 Mbps RJ45 ports that support IEEE 802.3af/at PoE standards, enabling simultaneous data and power transmission over a single Ethernet cable. For high-bandwidth uplink requirements, four SFP+ slots are available to connect at speeds of up to 10 Gbps, ensuring that the backbone connections can keep pace with modern traffic demands.

- 48 x Gigabit PoE+ RJ45 Ports
- 4 x 10G SFP+ Uplink Slots
- Total Power Budget of 500 W
- Up to 30 W per Port

Centralized Cloud Management and SDN Integration
Managing a large network becomes significantly easier with the integration into the Omada Software-Defined Networking platform. This feature set allows for complete cloud access, enabling administrators to monitor and configure devices remotely from any location. The system supports zero-touch provisioning when used with an Omada controller, streamlining deployment processes. Whether managing a small office or a large hospitality venue, users can control all network elements through one unified interface.

- Omada SDN Platform Support
- Remote Cloud Management Access
- Zero-Touch Provisioning Capabilities
- Unified Configuration and Monitoring

Enterprise-Grade Security and Performance
Security is paramount for any business network, and this switch includes a comprehensive suite of protection strategies. It supports integrated IP-MAC-Port binding, Access Control Lists (ACL), and 802.1X authentication to prevent unauthorized access. The device also features robust storm control mechanisms to mitigate broadcast, multicast, and unicast storms that can disrupt network operations. With a switching capacity of 176 Gbps and a packet forwarding rate of 130.9 Mpps, the TL-SG3452XP ensures low latency and high throughput even under heavy loads.

- 802.1X Authentication Support

- IP-MAC-Port Binding
- Advanced ACLs for Traffic Control
- Storm Control Mechanisms

Physical Specifications and Design
The TL-SG3452XP is built to fit seamlessly into standard data center racks. Its compact chassis measures 17.3 x 13.0 x 1.7 inches and includes three internal fans designed to maintain optimal operating temperatures during continuous operation. The unit accepts a wide range of input voltages from 100 to 240 V AC, making it suitable for use in various regions. Power consumption is optimized with a maximum draw of approximately 635.7 watts when fully loaded with PoE devices.

- Rack-Mountable Design
- Dimensions: 17.3 x 13.0 x 1.7 inches
- Three Internal Cooling Fans
- Input Voltage: 100-240 V AC

The specific product model identified for this configuration is the TP SG3452XP, ensuring compatibility with Omada ecosystem components and high-density deployment scenarios. This part number corresponds to the complete L2+ managed switch solution detailed above.

What's in the box

- TP-Link TL-SG3452XP Switch Unit
- Rack Mount Kit
- Power Cord
- User Guide and Warranty Card

Specifications:

© 2026 Respective owners and brand holders. This table has been carefully researched and generated by ComXpert International CC (http://www.comx.co.za), however, errors and omissions may occur. Only references to South Africa apply. All products are sourced in South Africa from the official suppliers and the warranty is that of the local supplier. E&OE. This table and our site's content may be used on condition that this notice and link remains intact and unaltered.

Specifications	
Product Code	TP SG3452XP
HARDWARE FEATURES	
Interface	48 x 10/100/1000 Mbps RJ45 PoE+ Ports
	4 x 10G SFP+ Slots
	1 x RJ45 Console Port
	1 x Micro-USB Console Port
Fan Quantity	3
Power Supply	100-240 V AC~50/60 Hz
PoE+ Ports(RJ45)	Standard: 802.3at/af compliant
	PoE+ Ports: 48 Ports, up to 30 W per port
	Power Budget: 500 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	49.19 W (110V/60Hz) (no PD device connected)
	635.7 W (110V/60Hz) (with 500 W PD device connected)
Max Heat Dissipation	167.85 BTU/hr (110 V/60 Hz) (no PD connected)
	2169.2 BTU/hr (110 V/60 Hz) (with 500 W PD connected)
PERFORMANCE	
Switching Capacity	176 Gbps
Packet Forwarding Rate	130.9 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: 30 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

Advanced Features	Automatic Device Discovery
	Batch Configuration
	Batch Firmware Upgrading
	Intelligent Network Monitoring
	Abnormal Event Warnings
	Unified Configuration
	Reboot Schedule
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
MANAGEMENT	
Omada App	Yes. Requiring the use of OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller.
Centralized Management	Omada Cloud-Based Controller
	Omada Hardware Controller (OC300)
	Omada Hardware Controller (OC200)
	Omada Software Controller
Cloud Access	Yes. Requiring the use of OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller.
Zero-Touch Provisioning	Yes. Requiring the use of Omada Cloud-Based Controller.

Management Features	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
OTHERS	
Certification	CE, FCC, RoHS
Package Contents	TL-SG3452XP Switch
	Power Cord
	Quick Installation Guide
	Rackmount Kit
	Rubber Feet
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista or Windows 7 / 8 / 10 / 11, MAC OS, NetWare, UNIX or Linux.
Environment	Operating Temperature: 0-40 degreesC (32-104 degreesF)
	Storage Temperature: -40-70 degreesC (-40-158 degreesF)
	Operating Humidity: 10-90% RH non-condensing
	Storage Humidity: 5-90% RH non-condensing

FAQ

What types of devices can this switch power?
The TL-SG3452XP supports up to 48 PoE+ powered devices like wireless access points, IP cameras, and IP phones. It provides a total power budget of 500W, with each port delivering up to 30W.

Does this switch support centralized cloud management?
Yes, the TL-SG3452XP integrates into the Omada SDN platform for centralized cloud access and remote management. This requires an Omada Cloud-Based Controller, OC300, OC200, or Software Controller.

How many high-speed uplink ports are available?

The switch features 4x 10 Gbps SFP+ slots for lightning-fast connectivity and non-blocking switching capacity. This setup allows you to build reliable connections to servers or other switches with ultra-low latency.

What security protocols are included?
Security features include 802.1X Authentication, IP-MAC-Port Binding, ACLs, and Port Security. The device also supports DoS defense, storm control, and secure management via SSHv2 and HTTPS with SSLv3/TLS 1.2.

Can this switch be mounted in a standard rack?
Yes, the TL-SG3452XP is designed to be rack mountable for easy installation in server rooms or data centers.

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-SG3452XP-TP-Link-JetStream-48-Port-Gigabit-L2-Managed-Switch-p-342250.php

Images and specifications are provided for reference and are subject to change without notice. E&OE.

Terms of Use: https://www.comx-computers.co.za/terms-of-use.php
Terms of Sale: https://www.comx-computers.co.za/terms-of-sale.php

PDF generated: 2026-11-15 19:04:21.

This PDF was generated automatically and may include content prepared or assisted by automated or AI-based systems. While reasonable care is taken to ensure accuracy, errors or omissions may occur.

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.