ComX Computers
Product Specification Sheet

TP SG2210MP

TP-Link JetStream 10 Port Gigabit Smart Switch with 8 Port PoE+

Product Overview

TP-Link SG2210MP JetStream 10 Port Gigabit Smart Switch with 8 Port PoE+, 8x 10/100/1000 Mbps RJ45 Ports All supporting PoE+, 2x 100/1000 Mbps SFP slots, 150 W PoE Power Supply, 802.3at/af compliant, Rack mountable







Specifications

Summary Overview:

Upgrade your network infrastructure with the TP-Link SG2210MP JetStream 10-Port Gigabit Smart Switch, now available for purchase in South Africa. This robust device features 8 PoE+ ports delivering a total of 150 W to power connected devices like IP cameras and wireless access points directly through Ethernet cables. Its seamless integration with the Omada SDN platform allows for centralized cloud management, making it an ideal choice for offices, retail stores, and educational institutions seeking scalable and secure connectivity solutions.

Enhance your network security with advanced features including IP-MAC-Port binding, DoS defense, and comprehensive access control lists. The switch supports L2/L3/L4 QoS to optimize voice and video applications while ensuring smooth performance for critical business operations. With its compact rack-mountable design and fan cooling system, this switch delivers reliable Gigabit connectivity through both RJ45 ports and SFP slots.

Secure your network today by ordering the TP-Link SG2210MP from our online store. Don't miss out on upgrading to a

smarter, more secure network solution. Buy now to experience enhanced performance and centralized management capabilities tailored for modern business needs.

Performance tier: Enterprise

Uses: Office networking, retail POS systems, IP surveillance cameras, wireless access point powering, VoIP phone connections, network segmentation, cloud-managed infrastructure, small to medium business networks

Overview:

TP-Link SG2210MP Smart Switch Overview

The TP-Link SG2210MP JetStream stands as a robust solution for modern network infrastructures, delivering high-speed connectivity and reliable power distribution in a compact form. Designed specifically for growing businesses and demanding environments, this 10-port Gigabit smart switch integrates seamlessly into existing setups while offering advanced management capabilities through the Omada SDN platform. With eight PoE+ ports capable of delivering up to 150 watts of total power, it ensures that critical devices like IP cameras, wireless access points, and VoIP phones remain powered without requiring separate electrical outlets.

Description

This intelligent network switch combines high-performance hardware with user-friendly cloud management tools. It features a total PoE budget of 150 watts to support multiple power-hungry devices simultaneously. The inclusion of two SFP slots allows for flexible fiber optic connectivity, while the Omada ecosystem enables zero-touch provisioning and centralized control via a single interface or mobile app.

The switch is engineered for scalability and security, offering comprehensive protection against common network threats through advanced access controls and storm suppression mechanisms. Whether deployed in an office, retail space, or educational facility, this unit provides the stability required for voice and video applications to run smoothly without interruption.

Features:

Key Hardware Specifications

- Part Number: TP SG2210MP (Model TL-SG2210MP)
- Total PoE Power Budget: 150 W supporting up to eight devices
- Gigabit Ports: Eight RJ45 ports with auto-negotiation and MDI/MDIX support
- SFP Connectivity: Two slots for 100/1000 Mbps fiber modules
- Switching Capacity: 20 Gbps non-blocking throughput
- Packet Forwarding Rate: 14.9 Mpps for efficient data handling
- MAC Address Table Size: Supports up to 8,000 entries
- Jumbo Frame Support: Up to 9 KB frames for large data transfers

Omada SDN Management Capabilities

Integrating with the Omada Software Defined Networking platform transforms how this switch is managed. Administrators can utilize Zero-Touch Provisioning to deploy new devices instantly without manual configuration. Centralized cloud access allows for monitoring and control from anywhere, while the dedicated mobile app offers on-the-go management for network health checks. This integration creates a scalable environment where wired and wireless connections are unified under one interface.

Advanced Security and Quality of Service

Protecting your network is a top priority with this device, which includes a suite of robust security strategies. Features such as IP-MAC-Port binding, ACLs, and Port Security help prevent unauthorized access and mitigate potential attacks like DoS attempts. The switch also supports 802.1X authentication for secure user verification and DHCP snooping to protect against rogue servers.

To ensure optimal performance for voice and video traffic, the SG2210MP implements L2/L3/L4 QoS policies alongside IGMP snooping. These technologies prioritize critical data streams, reducing latency and jitter to maintain high-quality communication services even during periods of heavy network usage.

Physical Design and Power Efficiency

The unit is built for flexibility with a rack-mountable design that fits standard server cabinets. It measures 11.6 x 7.1 x 1.7 inches, making it space-efficient for tight installations. The device includes a physical security lock to deter theft and features an internal fan for effective cooling. Power consumption remains efficient at approximately 12.2 watts under no load, rising to around 173.9 watts when the full PoE budget is utilized.

What's in the box

- TP-Link SG2210MP Smart Switch
- Rack Mount Kit
- User Guide

Specifications:

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Specifications	
Product Code	TP SG2210MP
HARDWARE FEATURES	
Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, IEEE 802.3az, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p
Interface	8x 10/100/1000 Mbps RJ45 Ports, all supporting PoE+ (Auto-Negotiation/Auto MDI/MDIX)
	2x 100/1000 Mbps SFP Slots
Network Media	10BASE-T: UTP/STP category 3, 4, 5 cable (maximum 100m)
	100BASE-TX/1000Base-T: UTP/STP category 5, 5e or above cable (maximum 100m)
	100BASE-FX: MMF, SMF
	1000BASE-X: MMF, SMF
Fan Quantity	1
Physical Security Lock	Yes
PoE+ Ports(RJ45)	Standard: 802.3at/af compliant
	PoE+ Ports: 8 Ports
	Power Supply: 150 W
Dimensions (W x D x H)	11.6 x 7.1 x 1.7 in (294 x 180 x 44 mm)
Mounting	Rack Mountable
Max Power Consumption	12.2 W (110 V / 60 Hz with no PD connected)
	173.9 W (110 V / 60 Hz with 150 W PD connected)
Max Heat Dissipation	41.63 BTU/h (with no PD connected)
	539.35 BTU/h (with 150 W PD connected)
PERFORMANCE	
Switching Capacity	20 Gbps
Packet Forwarding Rate	14.9 Mpps
MAC Address Table	8K

Packet Buffer Memory	4.1 Mbit
Jumbo Frame	9 KB
SOFTWARE FEATURES	
Quality of Service	802.1p CoS/ DSCP priority
	8 priority queues
	Priority Schedule Mode
	- SP (Strict Priority)
	- WRR (Weighted Round Robin)
	Queue Weight Config
	Bandwidth Control
	- Port/Flow based Rating Limit
	Smoother Performance
	Actions for flows
	- Mirror(to supported interface)
	- Redirect(to supported interface)
	- Rate Limit
	- QoS Remark
	Storm Control
	- Multiple Control Modes(kbps/ratio/pps)
	- Broadcast/Multicast/Unknown-Unicast Control

L2 and L2+ Features	DHCP Relay
	- DHCP VLAN Relay
	DHCP L2 Relay
	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/Protect
	Root Protect
	Loopback Detection
	Flow Control
	- 802.3x Flow Control
	Mirroring
	- Port Mirroring
	- CPU Mirroring
	- One-to-One
	- Many-to-One
	- Flow-Based
	- Ingress/Egress/Both
	Device Link Detect Protocol (DLDP)
	802.1ab LLDP/ LLDP-MED

L2 Features	Link Aggregation
	- static link aggregation
	- Up to 8 aggregation groups and up to 8 ports per group
	- 802.3ad LACP
	Spanning Tree Protocol
	- 802.1D STP
	- 802.1w RSTP
	- 802.1s MSTP
	- STP Security: Loop back detection, TC Protect, BPDU Filter/Protect, Root Protect
	Loopback Detection
	Flow Control
	- 802.3x Flow Control
	Mirroring
	- Port Mirroring
	- One-to-One
	- Many-to-One
	- Flow-Based
	- Ingress/Egress/Both
	- CPU Mirroring
	Device Link Detect Protocol(DLDP)
L2 Multicast	512 IPv4, IPv6 shared multicast groups
	IGMP Snooping
	- IGMP v1/v2/v3 Snooping
	- Fast Leave
	- IGMP Snooping Querier
	- IGMP Authentication
	- Static Group Config
	MLD Snooping
	- MLD v1/v2 Snooping
	- Fast Leave
	- MLD Snooping Querier
	- Static Group Config
	Multicast VLAN Registration
	Multicast Filtering

IPv6 Support	IPv6 Dual IPv4/IPv6
	Multicast Listener Discovery(MLD) Snooping
	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
VLAN	VLAN Group
	- Max. 4K VLAN Groups
	802.1Q tag VLAN
	MAC VLAN
	Protocol VLAN
	GVRP
	Voice VLAN

Access Control List	Support up to 230 entries
	Time-Range
	- Time Slice
	- Week Time-Range
	- Absolute Time-Range
	- Holiday
	Time-based ACL
	MAC ACL
	- Source MAC
	- Destination MAC
	- VLAN ID
	- User Priority
	- Ether Type
	IP ACL
	- Source IP
	- Destination IP
	- IP Protocol
	- TCP Flag
	- TCP/UDP Source Port
	- TCP/UDP Destination Port
	- DSCP/IP TOS
	IPv6 ACL
	Combined ACL
	Rule Operation
	- Permit/Deny
	Policy Action
	- Mirror
	- Rate Limit
	- Redirect
	- QoS Remark
	ACL Rules Binding
	- Port Binding
	- VLAN Binding

Security	AAA
	802.1X
	- Port based authentication
	- MAC(Host) based authentication
	- Authentication Method includes PAP/EAP-MD5/EAP-TLS/EAP-TTLS/EAP-PEAP
	- MAB
	- Guest VLAN
	- Support Radius authentication and accountability
	IP/IPv6-MAC Binding
	- 512 Binding Entries
	- DHCP Snooping
	- DHCPv6 Snooping
	- ARP Inspection
	- ND Detection
	IP Source Gurad
	- 253 Entries
	- Source IP+Source MAC
	IPv6 Source Gurad
	- 183 Entries
	- Source IPv6 Address+Source MAC
	DoS Defend
	Static/Dynamic/Permanent Port Security
	- Up to 64 MAC addresses per port
	Broadcast/Multicast/Unicast Storm Control
	- kbps/ratio/pps control mode
	Port Isolation
	Secure web management through HTTPS with SSLv3/TLS1.2
	Secure Command Line Interface (CLI) management with SSHv1/SSHv2
	IP/Port/MAC based access control

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 MIBs
MANAGEMENT	
Omada App	Yes
Centralized Management	Omada Cloud-Based Controller
	Omada Hardware Controller (OC300)
	Omada Hardware Controller (OC200)
	Omada Software Controller
Cloud Access	Yes (Through OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller)
Management Features	Web-based GUI and CLI management
	SNMPv1/v2c/v3
	SNMP Trap/Inform
	RMON (1,2,3,9 groups)
	SDM Template
	DHCP/BOOTP Client
	Dual Image, Dual Configuration
	CPU Monitoring
	Cable Diagnostics
	EEE
	System Log
	802.1ab LLDP/ LLDP-MED
OTHERS	
Certification	CE, FCC, RoHS
Package Contents	TL-SG2210MP
	Power Cord
	Installation Guide
	Rackmount Kit
	Rubber Feet

System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista or Windows 7/8/10, MAC OS, NetWare, UNIX or Linux.
Environment	Operating Temperature: 0-50 degreesC (32-122 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 power devices like cameras and access points?

Yes, the TP-Link SG2210MP features 8 PoE+ ports with a total 150 W budget that support 802.3at/af standards to supply power to connected equipment.

How do I manage this switch across multiple locations?

This switch integrates with the Omada SDN platform, allowing for centralized cloud management and Zero-Touch Provisioning via the Omada app or web interface.

Are there options for fiber optic connectivity?

Yes, in addition to the 8 gigabit RJ45 ports, the unit includes 2x SFP slots that support 100/1000 Mbps connections using MMF or SMF cables.

What security features does this smart switch include?

The device offers robust protection including IP-MAC-Port Binding, DoS defense, storm control, DHCP Snooping, and supports 802.1X authentication for secure network access.

Is the hardware suitable for installation in a standard rack?

Yes, the unit is designed to be rack-mountable and includes a physical security lock for added protection of your equipment.

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-SG2210MP-TP-Link-JetStream-10-Port-Gigabit-Smart-Switch-with-8-Port-PoE-p-342263.php

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