

NET-TL-SG2218P

TP-Link JetStream 18-port Gigabit Smart Switch with 16 port PoE+

Product Overview

TP-Link TL-SG2218P JetStream 18-port Gigabit Smart Switch with 16 port PoE+, 16 x Gigabit RJ45 PoE+ Ports, 150 W PoE Power budget, 2x Gigabit SFP slots, Rack mountable, 36 Gbps switching capacity



Specifications

Overview:

TL-SG2218P JetStream 18-Port Gigabit Smart Switch with 16-Port PoE+

- 150 W PoE Budget: 16x 802.3at/af-compliant PoE+ ports with a total power supply of 150 W.
- Full Gigabit Ports: 16x gigabit PoE+ ports and 2x gigabit SFP Slots provide high-speed connections.
- Integrated into Omada SDN: Zero-Touch Provisioning (ZTP), Centralized Cloud Management, and Intelligent Monitoring.
- Centralized Management: Cloud access and Omada app for ultra convenience and easy management.
- Static Routing: Helps route internal traffic for more efficient use of network resources.
- Robust Security Strategies: IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm control, DHCP Snooping, 802.1X, Radius Authentication, and more.
- Optimize Voice and Video Applications: L2/L3/L4 QoS and IGMP snooping.
- IPv6 : IPv6 support with dual IPv4/IPv6 stack, MLD snooping, IPv6 neighbor discovery.

Features:

Centralized Cloud Management

Omada SDN Platform Integration

Advanced L2+ Features

L2/L3/L4 QoS, ACL, Static Routing and More

Abundant Security Strategies

LAN Area Investment Protection

PoE+ Output

16 PoE+ Ports with Total 150 W Power Budget

Software Defined Networking (SDN) with Cloud Access

Omada's Software Defined Networking (SDN) platform integrates network devices, including access points, switches and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network-all controlled from a single interface. Seamless wireless and wired connections are provided, ideal for use in hospitality, education, retail, offices,

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Product Specification Sheet

and more.

Specifications:

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Specifications	
Product Code	NET-TL-SG2218P
HARDWARE FEATURES	
Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3az, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1p, IEEE 802.1x
Interface	16 x 10/100/1000 Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX)
	2 x Gigabit SFP Slots
Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)
	100BASE-TX/1000Base-T: UTP category 5, 5e or above cable (maximum 100m)
	1000BASE-X: MMF, SMF
Fan Quantity	1
Power Supply	100-240V AC, 50/60Hz
PoE Ports (RJ45)	Standard: 802.3at/af compliant
	PoE+ Ports: 16 Ports
	PoE Power Budget: 150 W
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	181.4 W (110 V/60 Hz) (with 150 W PD connected)
	178.3 W (220 V/50 Hz) (with 150 W PD connected)
Max Heat Dissipation	619.06 BTU/hr (110 V/60 Hz) (with 150 W PD connected)
	608.52 BTU/hr (220 V/50 Hz) (with 150 W PD connected)
PERFORMANCE	
Switching Capacity	36 Gbps
Packet Forwarding Rate	26.78 Mpps
MAC Address Table	8K
Packet Buffer Memory	4.1 Mbit
Jumbo Frame	9 KB
SOFTWARE FEATURES	

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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
	Storm Control
	- Multiple Control Modes(kbps/ratio)
	- Broadcast/Multicast/Unknown-Unicast Control

L2 and L2+ Features	16 IP Interfaces
	- Support IPv4/IPv6 Interface
	Static Routing
	- 32 IPv4/IPv6 Static Routes
	DHCP Server
	DHCP Relay
	- DHCP Interface Relay
	- DHCP VLAN Relay
	DHCP L2 Relay
	Static ARP
	Proxy ARP
	Gratuitous ARP
	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

Advanced Features	Automatic Device Discovery
	Batch Configuration
	Batch Firmware Upgrading
	Intelligent Network Monitoring
	Abnormal Event Warnings
	Unified Configuration
	Reboot Schedule
VLAN	VLAN Group
	- Max. 4K VLAN Groups
	802.1Q tag VLAN
	MAC VLAN: 12 Entries
	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
	Actions for flows
	- Mirror (to supported interface)
	- Redirect (to supported interface)
	- Rate Limit

Security	- QoS Remark
	AAA
	802.1X
	- Port based authentication
	- MAC (Host) based authentication
	- Authentication Method includes PAP/EAP-MD5
	- 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 Guard
	- 253 Entries
	- Source IP+Source MAC
	IPv6 Source Guard
	- 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 control mode
	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

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IPv6	IPv6 Static Routing and ACL
	IPv6 Dual IPv4/IPv6
	IPv6 Interface
	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
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
	OC300
	OC200
	Omada Software Controller
Centralized Management	Omada Cloud-Based Controller
	Omada Hardware Controller OC300
	Omada Hardware Controller OC200
	Omada Software Controller

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Cloud Access	Yes, through
	Omada Cloud-Based Controller
	OC300
	OC200
	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 telnet
	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
	SNTP
	System Log
OTHERS	
Certification	CE, FCC, RoHS
Package Contents	TL-SG2218P
	Power Cord
	Installation Guide
	Rackmount Kit
	Rubber Feet
System Requirements	Microsoft Windows XP, Vista or Windows 7 / 8 / 10 / 11, 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

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/NET-TL-SG2218P-TP-Link-JetStream-18-port-Gigabit-Smart-Buy-p-316057.php>

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