



JetStream 28-Port Gigabit Smart Switch with 24-Port PoE+

TL-SG2428P

SKU: 171296 UPC: 84597308868

Feature

- **250 W PoE Budget:** 24x 802.3at/af-compliant PoE+ ports with a total power supply of 250 W*.
- **Full Gigabit Ports:** 24x gigabit PoE+ ports and 4x 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.

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	24x 10/100/1000 Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX) 4x 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	2
PoE+ Ports(RJ45)	Standard: 802.3at/af compliant PoE+ Ports: 24 Ports Power Supply: 250 W
Dimensions (W x D x H)	17.3 x 8.7 x 1.73 in (440 x 220 x 44 mm)
Mounting	19" 1U rack mountable
Max Power Consumption	32.1 W (with no power device connected) 308.6 W (with 250W power device connected)
Max Heat Dissipation	109.5 BTU/h (with no PD connected) 1,052.9 BTU/h (with 250 W PD connected)
PERFORMANCE	
Bandwidth/Backplane	56 Gbps
Packet Forwarding Rate	41.7 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 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
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
Actions for flows
- Mirror (to supported interface)
- Redirect (to supported interface)
- Rate Limit
- QoS Remark

Security	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
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
MANAGEMENT	
Omada App	Yes
Centralized Management	Omada Cloud-Based Controller Omada Hardware Controller (OC300) Omada Hardware Controller (OC200) Omada Software Controller

MANAGEMENT	
Cloud Access	Yes (Through OC300, OC200, Omada Cloud-Based Controller, or Omada Software 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-SG2428P Power Cord Installation Guide Rackmount Kit Rubber Feet
System Requirements	Microsoft® Windows® XP, Vista or Windows 7, Windows 8, Windows 10, MAC® OS, NetWare®, UNIX® or Linux.
Environment	