



# 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

<b>Standards and Protocols</b>	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
<b>Interface</b>	24x 10/100/1000 Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX) 4x Gigabit SFP Slots
<b>Network Media</b>	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
<b>Fan Quantity</b>	2
<b>PoE+ Ports(RJ45)</b>	Standard: 802.3at/af compliant PoE+ Ports: 24 Ports Power Supply: 250 W
<b>Dimensions ( W x D x H )</b>	17.3 x 8.7 x 1.73 in (440 x 220 x 44 mm)
<b>Mounting</b>	19" 1U rack mountable
<b>Max Power Consumption</b>	32.1 W (with no power device connected) 308.6 W (with 250W power device connected)
<b>Max Heat Dissipation</b>	109.5 BTU/h (with no PD connected) 1,052.9 BTU/h (with 250 W PD connected)
<b>PERFORMANCE</b>	
<b>Bandwidth/Backplane</b>	56 Gbps
<b>Packet Forwarding Rate</b>	41.7 Mpps
<b>MAC Address Table</b>	8K
<b>Packet Buffer Memory</b>	4.1 Mbit
<b>Jumbo Frame</b>	9 KB
<b>SOFTWARE FEATURES</b>	

<p><b>Quality of Service</b></p>	<p>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</p>
<p><b>L2 and L2+ Features</b></p>	<p>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</p>
<p><b>VLAN</b></p>	<p>VLAN Group  - Max. 4K VLAN Groups  802.1Q tag VLAN  MAC VLAN  Protocol VLAN  GVRP  Voice VLAN</p>

**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

<b>Security</b>	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
<b>IPv6</b>	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
<b>MANAGEMENT</b>	
<b>Omada App</b>	Yes
<b>Centralized Management</b>	Omada Cloud-Based Controller Omada Hardware Controller (OC300) Omada Hardware Controller (OC200) Omada Software Controller

<b>MANAGEMENT</b>	
<b>Cloud Access</b>	Yes (Through OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller)
<b>Management Features</b>	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
<b>OTHERS</b>	
<b>Certification</b>	CE, FCC, RoHS
<b>Package Contents</b>	TL-SG2428P Power Cord Installation Guide Rackmount Kit Rubber Feet
<b>System Requirements</b>	Microsoft® Windows® XP, Vista or Windows 7, Windows 8, Windows 10, MAC® OS, NetWare®, UNIX® or Linux.
<b>Environment</b>	