

Model Number	TL-SG2008P(UN)2.0
<b>HARDWARE FEATURES</b>	
Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ad, IEEE 802.3af, IEEE 802.3at, IEEE 802.3x, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1p, IEEE 802.1x
Interface	<ul style="list-style-type: none"> <li>• 8× 10/100/1000 Mbps RJ45 Ports (Ports 1–4 Support 802.3at/af PoE+)</li> <li>• Auto-Negotiation/Auto MDI/MDIX</li> </ul>
Network Media	<ul style="list-style-type: none"> <li>• 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)</li> <li>• 100BASE-TX/1000Base-T: UTP category 5, 5e or above cable (maximum 100m)</li> </ul>
Fan Quantity	Fanless
Power Supply	• External Power Adapter (Output: 53.5 VDC/ 1.31 A)
Power Consumption	• 73.8 W (220 V/50 Hz) (with 62 W PD connected)
PoE Ports (RJ45)	<ul style="list-style-type: none"> <li>• Standard: 802.3af/at compliant</li> <li>• PoE Ports: 4 Ports</li> <li>• Power Supply: 62 W*</li> </ul>
Dimensions ( W x D x H )	8.2 x 4.9 x 1.0 in (209 x 126 x 26mm)
<b>PERFORMANCE</b>	
Bandwidth/Backplane	16 Gbps
MAC Address Table	8k
Packet Buffer Memory	4.1 Mbit
Jumbo Frame	9 KB
<b>SOFTWARE FEATURES</b>	
Quality of Service	<ul style="list-style-type: none"> <li>• 802.1p CoS/DSCP priority</li> <li>• 8 priority queues</li> <li>• Priority Schedule Mode</li> <li>- SP (Strict Priority)</li> <li>- WRR (Weighted Round Robin)</li> <li>• Queue Weight Config</li> <li>• Bandwidth Control</li> <li>- Port/Flow-based Rating Limit</li> <li>• Smoother Performance</li> <li>• Storm Control</li> <li>- Multiple Control Modes(kbps/ratio)</li> <li>- Broadcast/Multicast/Unknown-Unicast Control</li> </ul>
L2 and L2+ Features	<ul style="list-style-type: none"> <li>• DHCP Relay</li> <li>- DHCP VLAN Relay</li> <li>• DHCP L2 Relay</li> <li>• Link Aggregation</li> <li>- Static link aggregation</li> <li>- 802.3ad LACP</li> <li>- Up to 8 aggregation groups and up to 8 ports per group</li> <li>• Spanning Tree Protocol</li> <li>- 802.1D STP</li> <li>- 802.1w RSTP</li> <li>- 802.1s MSTP</li> <li>- STP Security: TC Protect, BPDU Filter/Protect, Root Protect</li> <li>• Loopback Detection</li> <li>• Flow Control</li> </ul>

	<ul style="list-style-type: none"> <li>- 802.3x Flow Control</li> <li>• Mirroring</li> <li>- Port Mirroring</li> <li>- CPU Mirroring</li> <li>- One-to-One</li> <li>- Many-to-One</li> <li>- Flow-Based</li> <li>- Ingress/Egress/Both</li> <li>• Device Link Detect Protocol (DLDP)</li> <li>• 802.1ab LLDP/ LLDP-MED</li> </ul>
L2 Multicast	<ul style="list-style-type: none"> <li>• 511 IPv4, IPv6 shared multicast groups</li> <li>• IGMP Snooping</li> <li>- IGMP v1/v2/v3 Snooping</li> <li>- Fast Leave</li> <li>- IGMP Snooping Querier</li> <li>- Static Group Config</li> <li>• Multicast VLAN Registration (MVR)</li> <li>• Multicast Filtering</li> <li>• MLD Snooping</li> <li>- MLD v1/v2 Snooping</li> <li>- Fast Leave</li> <li>- MLD Snooping Querier</li> <li>- Static Group Config</li> <li>• Limited IP Multicast (256 profiles and 16 entries per profile)</li> </ul>
IPv6 Support	<ul style="list-style-type: none"> <li>• IPv6 Dual IPv4/IPv6</li> <li>• Multicast Listener Discovery (MLD) Snooping</li> <li>• IPv6 neighbor discovery (ND)</li> <li>• Path maximum transmission unit (MTU) discovery</li> <li>• Internet Control Message Protocol (ICMP) version 6</li> <li>• TCPv6/UDPv6</li> <li>• IPv6 applications</li> <li>- DHCPv6 Client</li> <li>- Ping6</li> <li>- Tracert6</li> <li>- Telnet (v6)</li> <li>- IPv6 SNMP</li> <li>- IPv6 SSH</li> <li>- IPv6 SSL</li> <li>- Http/Https</li> <li>- IPv6 TFTP</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• VLAN Group</li> <li>- Max. 4K VLAN Groups</li> <li>• 802.1Q tag VLAN</li> <li>• MAC VLAN: 12 Entries</li> <li>• Protocol VLAN</li> <li>• GVRP</li> <li>• Voice VLAN</li> </ul>
	<ul style="list-style-type: none"> <li>• Support up to 230 entries</li> <li>• Time-Range</li> <li>- Time Slice</li> <li>- Week Time-Range</li> <li>- Absolute Time-Range</li> <li>- Holiday</li> <li>• Time-based ACL</li> <li>• MAC ACL</li> </ul>

Access Control List

- 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

	<ul style="list-style-type: none"> <li>• Port Isolation</li> <li>• Secure web management through HTTPS with SSLv3/TLS 1.2</li> <li>• Secure Command Line Interface (CLI) management with SSHv1/SSHv2</li> <li>• IP/Port/MAC-based access control</li> </ul>
MIBs	<ul style="list-style-type: none"> <li>• MIB II (RFC1213)</li> <li>• Bridge MIB (RFC1493)</li> <li>• P/Q-Bridge MIB (RFC2674)</li> <li>• Radius Accounting Client MIB (RFC2620)</li> <li>• Radius Authentication Client MIB (RFC2618)</li> <li>• Remote Ping, Traceroute MIB (RFC2925)</li> <li>• Support TP-Link private MIBs</li> <li>• RMON MIB(RFC1757, rmon 1,2,3,9)</li> </ul>
<b>MANAGEMENT</b>	
Omada App	Yes
Centralized Management	<ul style="list-style-type: none"> <li>• Omada Hardware Controller (OC300)</li> <li>• Omada Hardware Controller (OC200)</li> <li>• Omada Software Controller</li> </ul>
Cloud Access	Yes (Through OC300, OC200, or Omada Software Controller)
Management Features	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• Command Line Interface (CLI) through telnet</li> <li>• SNMPv1/v2c/v3</li> <li>• SNMP Trap/Inform</li> <li>• RMON (1,2,3,9 groups)</li> <li>• SDM Template</li> <li>• DHCP/BOOTP Client</li> <li>• Dual Image, Dual Configuration</li> <li>• CPU Monitoring</li> <li>• Cable Diagnostics</li> <li>• EEE</li> <li>• SNTP</li> <li>• System Log</li> </ul>
<b>OTHERS</b>	
Certification	CE, FCC, RoHS
Package Contents	<ul style="list-style-type: none"> <li>• TL-SG2008P</li> <li>• Power Adapter</li> <li>• Installation Guide</li> <li>• Rubber Feet</li> </ul>
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10, MAC® OS, NetWare®, UNIX® or Linux.
Environment	<ul style="list-style-type: none"> <li>• Operating Temperature: 0–40 °C (32–104 °F);</li> <li>• Storage Temperature: -40–70 °C (-40–158 °F)</li> <li>• Operating Humidity: 10–90% RH non-condensing</li> <li>• Storage Humidity: 5–90% RH non-condensing</li> </ul>

\*PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.