




# JetStream Smart Switches Datasheet


MODEL: T1500G-8T(TL-SG2008)/TL-SG2210P/  
T1500G-10MPS/T1500-28PCT(TL-SL2428P)




- Gigabit Ethernet connections on all ports provide full speed of data transferring
- Advanced security features include IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm Control, DHCP Snooping, 802.1X, and Radius Authentication
- L2/L3/L4 QoS and IGMP snooping optimize voice and video applications
- WEB/CLI managed modes, SNMP, RMON bring abundant management features
- Dual Firmware Image and Dual Configuration improves reliability and up-time of your network




TP-Link's brand new JetStream Gigabit Smart Switches provide huge upgrade comparing with previous versions. New Web UI design features better operating experience. Integrated L2 features such as 802.1Q VLAN, QoS, IGMP Snooping provide cost-effective networking solutions for small and medium-sized businesses without sacrificing enhanced usability and strong performance.




JetStream Smart Switches support a complete lineup of L2 features, including IGMP Snooping/ MLD Snooping, 802.1Q/MAC/Protocol VLAN, STP/RSTP/MSTP, Link Aggregation Group (LAG), Port Isolation, Port Mirroring, and CPU Mirroring. IGMP Snooping ensures the multicast stream be forwarded intelligently to the appropriate subscribers by the switch, while IGMP Throttling & Filtering restrict each subscriber on a certain level to prevent unauthorized multicast access.



To integrate voice, data and video service on one network, the switch applies rich QoS policies. Administrator can designate the priority of the traffic based on a variety of means including Port Priority, 802.1P Priority and DSCP Priority, to ensure that voice and video are always clear, smooth and jitter free. In conjunction with the Voice VLAN that the switches support, Voice Applications will perform better and smoother.



JetStream Smart Switches support comprehensive IPv6 features including IPv6 management, ACL, QoS and MLD Snooping, all of these features help to ensure a smooth migration to IPv6-based network without changing switches in the future.



JetStream Smart Switches support multiple user-friendly standard management features such as intuitive web-based Graphical User Interface (GUI), industrially standard Command Line Interface (CLI) and SNMP (v1/2/3). These switches support RMON (Remote Network Monitoring), which enables the switch to be polled for valuable status information and send traps when encountering abnormal events. Also, this series of switches support Dual Image function, which makes there be less 'down-time' when switches are being upgraded/downgraded.

# Specifications

## Hardware Specifications & Performance

Product Picture					
Model		T1500G-8T (TL-SG2008)	TL-SG2210P	T1500G-10MPS	T1500-28PCT (TL-SL2428P)
General	Interfaces	8 10/100/1000 Mbps RJ45 Ports	8 10/100/1000 Mbps RJ45 Ports 2 Gigabit SFP Slots		24 10/100 Mbps RJ45 Ports, 4 10/100/1000 Mbps RJ45 Ports 2 Combo Gigabit SFP Slots
PoE	PoE Standard	/	802.3af/at	802.3af/at	802.3af
	PoE Ports		8, up to 30 W	8, up to 30 W	24, up to 30 W
	PoE Power Budget*		58 W	116 W	192 W
Performance	Switching Capacity	16 Gbps	20 Gbps		12.8 Gbps
	Packet Forwarding Rate	11.84 Mpps	14.88 Mpps		9.52 Mpps
	MAC Address Table	8K			
	Packet Buffer	4.1 Mbit			
	Jumbo Frame	9 KB			
Physical & Environment	Power Supply	100-240 V AC, 50/60 Hz			
	Max Power Consumption	5.75 W (220 V/50 Hz)	10.5 W (220 V/50 Hz) (no PD connected) 75.3 W (220 V/50 Hz) (with 58 W PD connected)	15.61 W (220 V/50 Hz) (no PD connected) 139.52 W (220 V/50 Hz) (with 116 W PD connected)	21.7 W (220 V/50 Hz) (no PD connected) 229.73 W (110 V/60 Hz) (with 192 W PD connected)
	Max Heat Dissipation	19.62 BTU/h	35.80 BTU/h (no PD connected) 256.77 BTU/h (with 58 W PD connected)	53.26 BTU/h (no PD connected) 476.04 BTU/h (with 116 W PD connected)	74.04 BTU/h (no PD connected) 783.84 BTU/h (with 192 W PD connected)
	Dimensions (W × D × H)	209 mm*126 mm *26 mm	209 mm*126 mm *26 mm	294 mm*180 mm *44 mm	440 mm*180 mm *44 mm
	Fan Quantity	Fanless	Fanless	1	2
	Operating Temperature	0°C to 40°C (32°F to 104°F)			
	Storage Temperature	-40°C to 70°C (-40°F to 158°F)			
	Operating Humidity	10% to 90% RH, non-condensing			
	Storage Humidity	5% to 90% RH, non-condensing			
	Certification	CE, FCC			

Note:

\*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.

MLD Snapping  
Device L

- MLD Snapping
- MLD Snapping
- Fast

Looping

Far

- Multicast Registration
- Multicast
- Protocol

- Voice V

Fig

Security	<ul style="list-style-type: none"> <li>• AAA</li> <li>• 802.1X <ul style="list-style-type: none"> <li>- Port based authentication</li> <li>- MAC (Host) based authentication</li> <li>- Authentication Method includes PAP/EAP-MD5/EAP-TLS/EAP-TTLS/EAP-PEAP</li> </ul> </li> <li>- MAB</li> <li>- Guest VLAN</li> <li>- Support Radius authentication and accountability</li> <li>• IP/IPv6-MAC Binding <ul style="list-style-type: none"> <li>- 512 Binding Entries</li> </ul> </li> <li>- DHCP Snooping</li> <li>- DHCPv6 Snooping</li> <li>- ARP Inspection</li> <li>- ND Detection</li> <li>• IP Source Guard</li> </ul>	<ul style="list-style-type: none"> <li>- 253 Entries</li> <li>- Source IP</li> <li>• IPv6 Source</li> <li>- 183 Entries</li> <li>- Source IP</li> <li>• DoS Defen</li> <li>• Static/Dyn</li> <li>- Up to 64</li> <li>• Broadcast</li> <li>- kbps/rati</li> <li>• Port Isolati</li> <li>• Secure we</li> <li>SSLv3/TLS</li> <li>• Secure C</li> <li>manager</li> <li>• IP/Port/M</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 <ul style="list-style-type: none"> <li>- DHCPv6 Client</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Ping6</li> <li>- Tracert6</li> <li>- Telnet (v6)</li> <li>- IPv6 SN</li> <li>- IPv6 SS</li> <li>- IPv6 SS</li> <li>- Http/H</li> <li>- IPv6 T</li> </ul>
Management	<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> </ul>	<ul style="list-style-type: none"> <li>• DHCP/</li> </ul>

Image, Dual Configuration