

HARDWARE FEATURES

Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, IEEE 802.3az, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p
Interface	8 10/100/1000Mbps RJ45 Ports, all supporting PoE+ 2 100/1000Mbps SFP Slots (Auto-Negotiation/Auto MDI/MDIX)
Network Media	10BASE-T: UTP/STP category 3, 4, 5 cable (maximum 100m) 100BASE-TX/1000Base-T: UTP/STP category 5, 5e or above cable (maximum 100m) 100BASE-FX: MMF, SMF 1000BASE-X: MMF, SMF
Fan Quantity	1
Physical Security Lock	Yes
PoE+ Ports(RJ45)	Standard: 802.3at/af compliant PoE+ Ports: 8 Ports Power Supply: 116W
Dimensions (W x D x H)	11.6 x 7.1 x 1.7 in. (294 x 180 x 44 mm)
Mounting	Rack Mountable
Max Power Consumption	15.61W (220V/50Hz with no PD connected) 139.52W (220V/50Hz with 116W PD connected)
Max Heat Dissipation	53.26 BTU/h (with no PD connected) 476.04 BTU/h (with 116W PD connected)

PERFORMANCE

Switching Capacity	20Gbps
Packet Forwarding Rate	14.9Mpps
MAC Address Table	8K
Packet Buffer Memory	512KB
Jumbo Frame	9KB

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Quality of Service	<ul style="list-style-type: none">• 802.1p CoS/ DSCP priority• 8 priority queues• Priority Schedule Mode<ul style="list-style-type: none">- SP (Strict Priority)- WRR (Weighted Round Robin)• Queue Weight Config• Bandwidth Control<ul style="list-style-type: none">- Port/Flow based Rating Limit• Smoother Performance• Actions for flows<ul style="list-style-type: none">- Mirror(to supported interface)- Redirect(to supported interface)- Rate Limit- QoS Remark• Storm Control<ul style="list-style-type: none">- Multiple Control Modes(kbps/ratio/pps)- Broadcast/Multicast/Unknown-Unicast Control
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<p>L2 Features</p>	<ul style="list-style-type: none"> • Link Aggregation <ul style="list-style-type: none"> - static link aggregation - Up to 8 aggregation groups and up to 8 ports per group - 802.3ad LACP • Spanning Tree Protocol <ul style="list-style-type: none"> - 802.1D STP - 802.1w RSTP - 802.1s MSTP - STP Security: Loop back detection, TC Protect, BPDU Filter/Protect, Root Protect • Loopback Detection • Flow Control <ul style="list-style-type: none"> - 802.3x Flow Control • Mirroring <ul style="list-style-type: none"> - Port Mirroring - One-to-One - Many-to-One - Flow-Based - Ingress/Egress/Both - CPU Mirroring • Device Link Detect Protocol(DLDP)
<p>L2 Multicast</p>	<ul style="list-style-type: none"> • 512 IPv4,IPv6 shared multicast groups • IGMP Snooping <ul style="list-style-type: none"> - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - IGMP Authentication - Static Group Config • MLD Snooping <ul style="list-style-type: none"> - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Static Group Config • Multicast VLAN Registration • Multicast Filtering
<p>IPv6 Support</p>	<ul style="list-style-type: none"> • IPv6 Dual IPv4/IPv6 • 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 <ul style="list-style-type: none"> - DHCPv6 Client - Ping6 - Tracert6 - Telnet(v6) - IPv6 SNMP - IPv6 SSH - IPv6 SSL - Http/Https - IPv6 TFTP
<p>VLAN</p>	<ul style="list-style-type: none"> • VLAN Group <ul style="list-style-type: none"> - Max. 4K VLAN Groups • 802.1Q tag VLAN • MAC VLAN • Protocol VLAN • GVRP • Voice VLAN

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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

Security

- AAA
- 802.1X
 - Port based authentication
 - MAC(Host) based authentication
 - Authentication Method includes PAP/EAP-MD5/EAP-TLS/EAP-TTLS/EAP-PEAP
- 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 Gurad
 - 253 Entries
 - Source IP+Source MAC
- IPv6 Source Gurad
 - 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/pps control mode
- Port Isolation
- Secure web management through HTTPS with SSLv3/TLS1.0
- Secure Command Line Interface (CLI) management with SSHv1/SSHv2
- IP/Port/MAC based access control

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Management	<ul style="list-style-type: none">• Web-based GUI and CLI management• 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• System Log• 802.1ab LLDP/ LLDP-MED
MIBs	<ul style="list-style-type: none">• MIB II (RFC1213)• Interface MIB (RFC2233)• Ethernet Interface MIB (RFC1643)• Bridge MIB (RFC1493)• P/Q-Bridge MIB (RFC2674)• RMON MIB (RFC2819)• RMON2 MIB (RFC2021)• Radius Accounting Client MIB (RFC2620)• Radius Authentication Client MIB (RFC2618)• Remote Ping, Traceroute MIB (RFC2925)• Support TP-Link private MIBs
OTHERS	
Certification	CE, FCC, RoHS
Package Contents	T1500G-10MPS Power Cord Installation Guide Resource CD Rackmount Kit Rubber Feet
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8, MAC® OS, NetWare®, UNIX® or Linux.
Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing