

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 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p
Interface	8 10/100/1000Mbps RJ45 Ports Port8 obtain power from PoE source (Auto-Negotiation/Auto MDI/MDIX)
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)
Fan Quantity	Fanless
Physical Security Lock	No
Power Supply	100~240VAC, 50/60Hz External Power Adapter(Output: 12VDC/1A) Obtain power from PoE source
Power Consumption	Maximum: 5.75W (220V/50Hz)
PD Port (RJ45)	Port8 IEEE802.3af/at
Dimensions (W x D x H)	209 * 126 * 26mm
Max Power Consumption	5.75W (220V/50Hz)
Max Heat Dissipation	19.62 BTU/h

PERFORMANCE

Bandwidth/Backplane	16Gbps
Packet Forwarding Rate	11.9Mpps
MAC Address Table	8K
Jumbo Frame	9216 Bytes

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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 • Actions for flows - Mirror(to supported interface) - Redirect(to supported interface) - Rate Limit - QoS Remark • Storm Control - Multiple Control Modes(kbps/ratio/pps) - Broadcast/Multicast/Unknown-Unicast Control
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L2 Features	• Link Aggregation - static link aggregation - Up to 8 aggregation groups and up to 8 ports per group - 802.3ad LACP • Spanning Tree Protocol - 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 - 802.3x Flow Control • Mirroring - Port Mirroring - One-to-One - Many-to-One - Flow-Based - Ingress/Egress/Both - CPU Mirroring • Device Link Detect Protocol(DLDP)
L2 Multicast	• 512 IPv4,IPv6 shared multicast groups • IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - IGMP Authentication - Static Group Config • MLD Snooping - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Static Group Config • Multicast VLAN Registration • Multicast Filtering
IPv6 Support	• 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 - DHCPv6 Client - Ping6 - Tracert6 - Telnet(v6) - IPv6 SNMP - IPv6 SSH - IPv6 SSL - Http/Https - IPv6 TFTP
VLAN	• VLAN Group - 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 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/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	• 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	• 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-8T Power Adapter Installation Guide Resource CD 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