

HARDWARE FEATURES

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| 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: 48VDC/1.25A) |
| Power Consumption | Maximum (PoE on): 64.9W Maximum (PoE off): 9.9W |
| PoE Ports (RJ45) | Standard: 802.3af compliant PoE Ports: 8 Ports Power Supply: 53W |
| Dimensions (W x D x H) | 209 * 126 * 26mm |
| Max Power Consumption | 9.92W (220V/50Hz with no PD connected) 64.89W (110V/60Hz with 53W PD connected) |
| Max Heat Dissipation | 33.85 BTU/h (with no PD connected) 221.40 BTU/h (with 53W PD connected) |

PERFORMANCE

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| Bandwidth/Backplane | 20Gbps |
| Packet Forwarding Rate | 14.9Mpps |
| MAC Address Table | 8K |
| 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-10PS 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 |