Data Sheet HTPS7500-48GP4XF

HTPS7500-48GP4XF – 48 Port POE Full Gigabit Layer 2 Managed Switch with 4 2.5G SFP+ Ports

Product Appearance:

Highlights:

. 48 10/100/1000M adaptive RJ45 ports, 4 x 2.5Gigabit SFP+ ports, and 1 Console port.

· Support visualized cloud management operation and maintenance.

· Support diversified management methods based on Web, SNMP, CLI, Telnet, etc.

· Support DHCP server, DHCP relay, DHCP Snooping.

· Support port, MAC, binding, ARP/DoS protection, and 802.1 X authentication.

· Support VLAN, QoS, and ACL, spanning tree, multicast, and link aggregation.

· Support IPV6 Ping, IPv6 Tracers, IPv6 Telnet IPV6 SSH IPv6 SSL.

· Support storm suppression, multicast suppression, broadcast suppression, unknown unicast suppression.

Product Features:

Adopt a new generation of high-performance hardware and software platform, provide flexible and cost-effective full Gigabit access and uplink ports, support cloud management, support three-layer routing protocol, complete security protection mechanism, complete ACL/QoS strategy and rich The VLAN function is easy to manage and maintain, to meet the needs of users for easy management of network equipment, high security, and low cost. It is suitable for campus, hotel and enterprise campus network access, convergence, and-core-application-scenarios.

Introduction to Parameters

- 4 2.5G SFP+ ports, 48 Gigabit RJ45 ports, 1 Console port
- support three-layer management
- Support VLAN, QoS, ACL, STP, loop protection, IMGP, 802.1X
- Support-IPv4/IPv6-.Support-Web,CLI,SNMP(V1/V2/V3)

Powerful multi-service processing capabilities

- Support DHCP server to assign IP addresses to hosts on the network.

- Supports DHCP relay. Switches on different interfaces or subnets can also obtain IP addresses and reduce the number of DHCP servers.

- Support proxy ARP to allow hosts on different physical networks on the same network segment to communicate normally.

- Supports IEEE 802.1Q VLANs, MAC VLANs, IP VLANs, and voice VLANs. You can flexibly assign VLANs according to different requirements.

- Supports GVRP to implement dynamic VLAN distribution, registration, and attribute propagation. This reduces manual configuration and ensures correct configuration.

- Supports the VLAN VPN function. The public network access device encapsulates the outer VLAN tag for the private network packets of the user, so that the packets carry two VLAN tags across the public network.

- Support QoS; support port-based, 802.1P-based and DSCP-based three priority modes and WFQ, SP, WRR, SP+WRR four queue scheduling algorithms.

- Supports ACLs by configuring matching rules, processing operations, and time permissions to filter packets and provide flexible security access control policies.

- Supports IGMP V1/V2 multicast protocol and support IGMP Snooping to meet the requirements of multi-terminal HD video surveillance and video conference access.

- Supports PoE management POE power limitation, POE chip status check, setting PoE port priority, and custom PoE power supply time period.

- Support IPV6 Ping, IPv6 Tracer, IPv6 Telnet IPV6 SSH IPv6 SSL.

Complete Security Protection Mechanism

- Supports IP address, MAC address, and port ternary binding to filter packets.

- Supports ARP protection, and protects against ARP spoofing and ARP flood attacks, such as gateway spoofing and man-in-the-middle attacks.

- Support IP source protection to prevent illegal address spoofing including MAC spoofing IP spoofing, and MAC/IP spoofing.

- Supports DoS protection and supports attacks such as Land Attack, Scan SYNFIN, Xmascan, and Ping Flooding.

- Supports 802.1X authentication, provides authentication functions for LAN computers, and controls the authorization status of controlled ports based on the authentication results.

- Supports port security. When the port learns the maximum number of MAC addresses, it stops learning to prevent MAC address attacks and control port network traffic.

- Support DHCP Snooping to effectively prevent private DHCP servers and ensure the legality of the DHCP server.

Various Reliability Protection

- Support loop protection, automatically detect switch loop status, and block loop ports.

- Supports the STP/RSTP/MSTP spanning tree protocol to eliminate Layer 2 loops and implement link backup.

- Support spanning tree security to prevent devices in the spanning tree network from being subjected to various forms of malicious attacks.

- Support static aggregation and dynamic aggregation, which effectively increases link bandwidth, implements load balancing, link backup, and improves link reliability.

Model	HTPS7500-48GP4XF
Fixed port	48* 10/100/1000M electrical ports 4* 2.5G SFP+ Ports and 1 Console Port
POE	800W; Single Port Max. 30W
Exchange capacity	256G; 32K MAC
Packet forwarding rate	232Mpps
Operating temperature	-20~50°C
storage temperature	-40~70°C
Working humidity	10% to 90% non-condensing
Storage humidity	5% to 95% non-condensing
physical dimension	440mm×290mm×44mm
Total Weight	<6Kg
Input voltage	100-240V/50-60Hz
Machine power consumption	<30W
Certificate	CE mark, Commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS

Software Features	HTPS7500-48GP4XF
DHCP	Support DHCP server Support DHCP relay Support DHCP Snooping
VLAN	Support 4K VLAN Support 802.1Q VLAN, Port VLAN, Voice VLAN
MAC address table	Follow IEEE 802.1d standard Support MAC address automatic learning and aging Support static, dynamic and filtered address table
Safety features	Based on user classification management and password protection Support restriction of user access based on port number, IP address, MAC address Imps-echo, DoS protection Support DHCP Snooping, DHCP attack protection Support port security, port isolation
Access control (ACL)	Support L2 (Layer 2) L4 (Layer 4) packet filtering function Support port mirroring, port redirection, flow rate limit, QoS remark
Multicast	Support IGMP v1/v2 Snooping Support static multicast Support multicast VLAN
Quality of Service (QoS)	5 Support 8 port queues Support port priority, 802.1P priority, DSCP priority Support SP, RR, WRR, WFQ priority scheduling algorithm
Spanning tree	Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols Support loop protection, BPDU protection
Management and maintenance	Support WEB network management (HTTP) Support CLI (Telnet, local serial port) Support SNMP V1/V2/V3, compatible with public MIBS Support LLDP, RMON Support IP source

	protection, DoS protection Support CPU monitoring, memory monitoring Support system log Support cable detection

Solution Diagram:

MSTP For Ring IP Surveillance Application

1000BASE-T UTP
1000BASE-T UTP With
1000BASE-SX/LX Fiber