



## **Data Sheet HTIS108GPS-4F**

## HTIS108GPS-4F - 8-Port Industrial POE Full Gigabit Layer 2 Managed Switch with 4 SFP Ports

### Product Appearance:



## **Highlights:**

- 8 Gigabit PoE ports; 4 Gigabit SFP ports
- Support IEEE802.3af/at, single port output maximum power 46W
- Support port management, PoE management, link aggregation, STP, loop protection, IMGP, 802.1X
- 48-56V DC redundant dual supply voltage input
- Support reverse connection protection, overcurrent protection
- IP40 level protection; Working temperature: -40~ 75°

## **Product Features:**

The HTIS108GPS-4F is a Gigabit-managed industrial POE switch that provides 8 Gigabit POE ports and 4 Gigabit optical ports. Each POE port can provide up to 30W of power and is suitable for IEEE802.3af /at compatible powered devices (PDs). It is especially suitable for applications where AC power is not easy to provide and wiring costs are high. EMC industrial grade 4 protection performance; corrugated high-strength aluminum profile housing, IP40 grade, low power design, seismic rail mounting, -40°C-75°C operating temperature, can work in harsh environments; IS108GPS-4F can also Supports rich network management functions: RUN-Ring (self-healing time <10ms), RSTP, VLAN, QoS, SNMPv1/v2c/v3, IEEE802.1X, SSH/SSL, port mirroring, port aggregation, etc. Rich redundancy, switching and security Management features make it a reliable solution for intelligent transportation, video surveillance and other harsh industrial environments.

## **Introduction to Parameters**

- 4 Gigabit SFP ports, 8 Gigabit RJ45 ports, 1 Console port
- BCM high-end chip, 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.

<b>Model</b>	<b>HTIS108GPS-4F</b>
Fixed port	8* 10/100/1000M electrical ports 4* Gigabit SFP+ ports and 1 Console Port
POE	240W; Single Port Max. 46W
Exchange capacity	24G; 16K MAC
Packet forwarding rate	17.88Mpps
Operating temperature	-40~85°C
storage temperature	-40~85°C
Working humidity	10% to 90% non-condensing
Storage humidity	5% to 95% non-condensing
physical dimension	179mm×100mm×44mm
Total Weight	<1Kg
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	HTIS108GPS-4F
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:

