



## **Data Sheet GTS8800-48G4SFP**

**L2+ Managed Switch 48\*10/100/1000 + 4\* Gigabit  
SFP Uplink ports**

**Product Appearance:**



GTS8800-48G4SFP has 52 ports full Gigabit enterprise class multi-functional network L2 management switch independently developed by HTN. It is specially designed for enterprise customers to optimize and enhance the design and has higher reliability. The device adopts Realtek new generation high-performance platform and HTN new self-developed switch system, supports flexible 802.1Q VLAN, IGMP, port monitoring, port aggregation, bandwidth control, ring application and other network management functions, and easily adapts to the current complex network application environment.

### **Port performance**

- Provide 48\*10/100/1000M RJ45 adaptive ports, all of which can realize line speed forwarding.
- Provide 4 Gigabit SFP photoelectric multiplexing uplink ports for high-speed uplink transmission.
- It supports the combination of multiple types of ports to facilitate users' flexible networking and meet the networking requirements of various scenarios;
- Each port supports MDI / mdix automatic flip and duplex / rate self-negotiation.
- Support IEEE 802.3x full duplex flow control and backpressure half duplex flow control.

### **Strong business processing capability**

- Add a variety of new applications based on IPv6 to easily adapt to modern complex network management applications
- Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to their needs.
- Support voice VLAN, configure QoS parameters for voice data stream, improve the transmission priority of voice data stream and ensure the quality of communication.
- Support QoS, port based, 802.1p based and DSCP based priority modes to optimize bandwidth configuration.
- Supporting ACL, filtering data packets by configuring matching rules, processing operations and time permissions, and providing flexible security access control policies.
- Support IGMP V1 / V2 multicast protocol and IGMP snooping to meet the requirements of multi terminal HD video monitoring and video conference access.
- Support multicast VLAN and multicast filtering transmit data efficiently, save network bandwidth and reduce network load.
- Support port monitoring, copy a packet of the monitored port to the monitoring port to realize network monitoring.
- Support the management and maintenance of equipment through web interface.
- Support port convergence, effectively increase link bandwidth, realize link backup and improve link reliability.

### **Security Protection**

- Support STP / RSTP / MSTP spanning tree protocol, eliminate layer-2 loop and realize link backup.
- Support the spanning tree security function to prevent the devices in the spanning tree network from various forms of malicious attacks.
- Support static aggregation and dynamic aggregation, effectively increase link bandwidth, realize load balancing and link backup, and improve link reliability.

### **Easy Operation And Maintenance**

Support web network management, CLI command line (console, telnet), SNMP (V1 / V2 / V3) and other diversified management and maintenance methods.

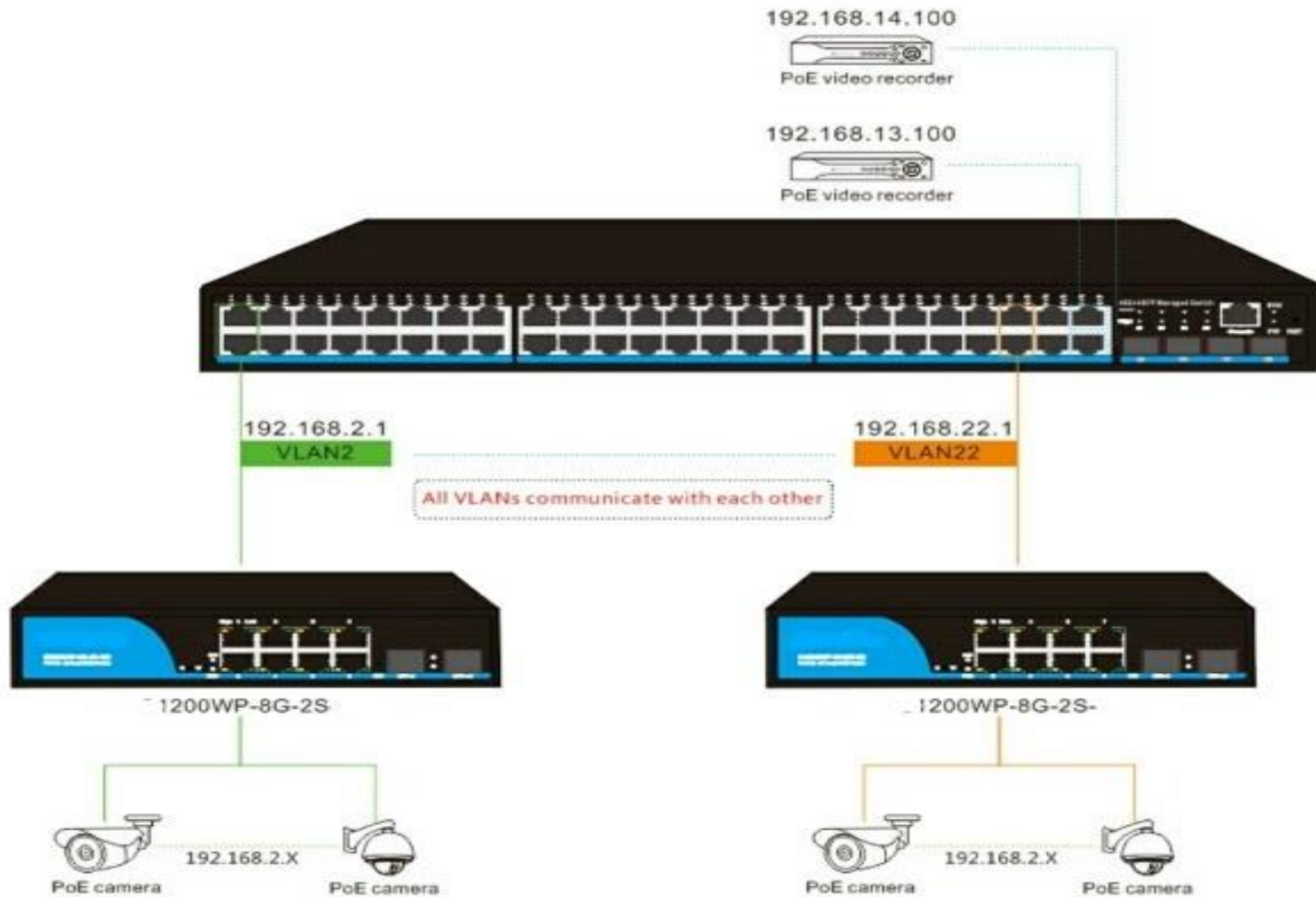
Support the encryption methods such as HTTPS, SSL V3, tlsv1, sshv1 / V2, and make the management more secure.

Support RMON, system log, port traffic statistics, facilitate network optimization and transformation.

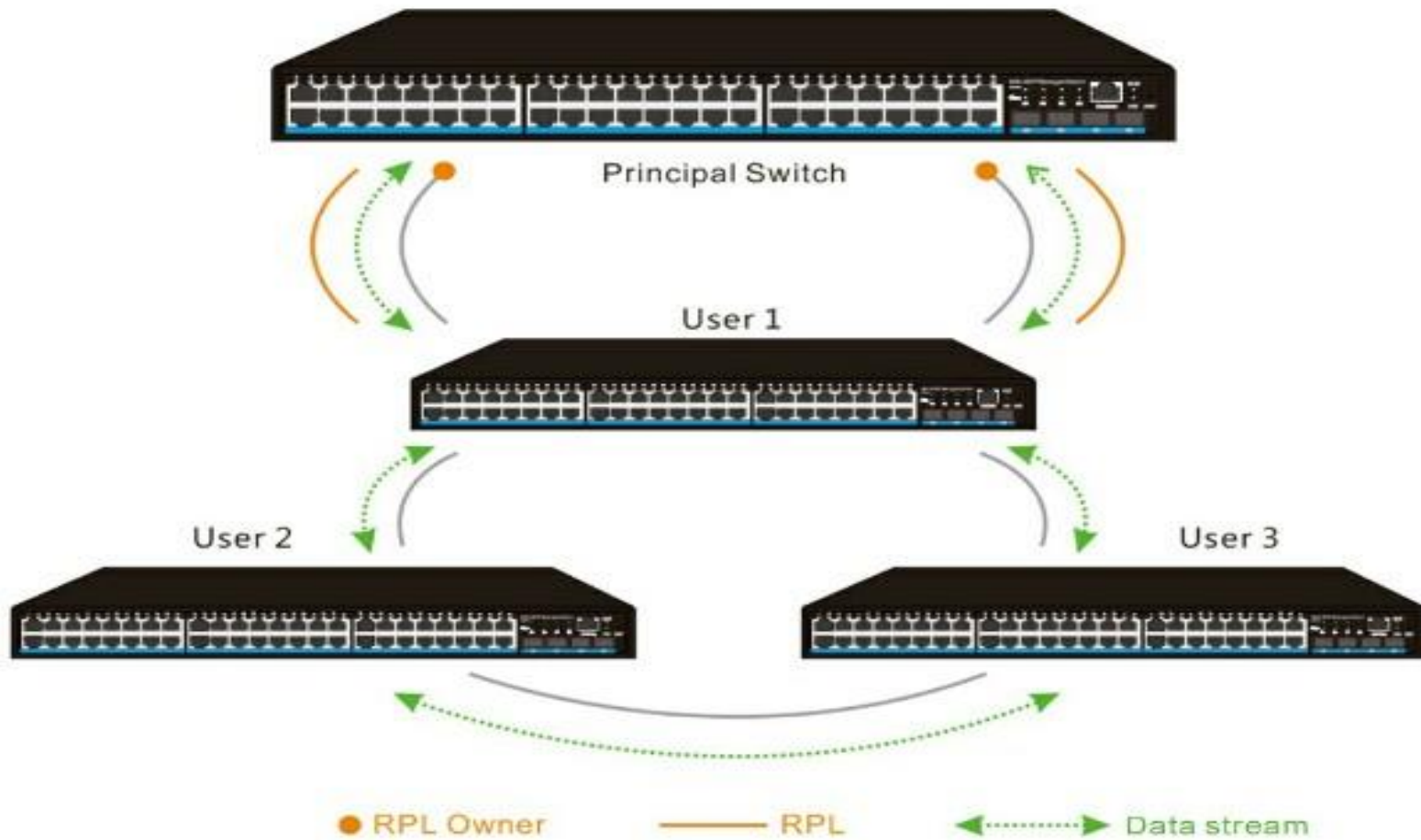
The user can know the working status of the switch through the power indicator (PWR), port status indicator and system status indicator (sys).



# 1. Static routing example



## 2. Ring network application



<b>Model</b>	<b>GTS8800-48G4SFP</b>
Fixed port	48* 10/100/1000M electrical ports 4* Gigabit SFP ports 1* Console Port
Reset button	1
Exchange capacity	104/256G
Packet forwarding rate	94.88Mpps
Operating temperature	-10~50°C
storage temperature	-40~70°C
Working humidity	10% to 90% non-condensing
Storage humidity	5% to 95% non-condensing
physical dimension	440mm*210mm*40mm
Total Weight	5.2kg/5.9kg
Input voltage	Built-in power AC 100~240V 50/60HZ
Power consumption Watts	50W



Certificate	CE mark, Commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS	
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Software Parameter	
Software functions:	
Protocol Standard	IEEE 802.3x IEEE 802.3、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z IEEE 802.3ad IEEE 802.3q、IEEE 802.3q/p IEEE 802.1w、IEEE 802.1d、IEEE 802.1S、IEEE 802.1X
MAC Address	Support 16K MAC addresses; MAC address learning and aging
VLAN	Port-based VLANs Up to 4096 VLAN support Voice VLAN can configure QoS for voice data 802.1Q VLAN; Q in Q VLAN support
Spanning Tree	STP(Spanning tree protocol) RSTP(Rapid spanning tree protocol) MSTP(Rapid spanning tree protocol) EPPS(Ring network protocol) EAPS(Ring network protocol) 802.1x argumentation agreement
Link Aggregation	Max 8 aggregation groups TRUNK, each supports 8 ports
Port Mirror	Many-to-one port mirroring
Loop Guard	Loop protection function, real-time detection, rapid alarm, accurate positioning, Intelligent blocking, automatic recovery
Port Isolation	Support downlink ports isolated from each other and communicate with uplink port
Port Flow Control	Half duplex based back pressure control Full duplex based on PAUSE frame

Line Rate	Support downlink ports isolated from each other and communicate with upstream port
IGMP Snooping	IGMPv1/2/3 and MLDv1/2 GMRP Protocol Registration Multicast address management, multicast VLAN, multicast routing ports, static multicast addresses
DHCP	DHCP Snooping
Storm Suppression	Unknown unicast, multicast, unknown multicast, storm suppression of broadcast type Storm suppression based on bandwidth tuning and storm filtering
Security	User port+ IP Address+ MAC Address ACL based on IP and MAC Security properties of port based MAC address quantities
QOS	802.1p port queue priority algorithm Cos/Tos, QOS sign WRR (Weighted Round Robin), Weighted priority rotation algorithm WRR、SP、WFQ, 3 priority scheduling models
Cable Sequence	Auto-MDIX; auto identification of straight-through cables and crossover cables
Negotiation Mode	Port supports automatic negotiation ( self-negotiation transmission rate and duplex mode)
PoE Function (Only PoE model)	Port Switch Schedule arrangement, time switch Voltage, current and power Display System total power display and configuration PoE Watch dog, automatically restart and timed restart when device crashes; support IP binding restart Port power configuration Over-power Indicator

System Maintenance	Upgrade package upload System log view WEB restore factory configuration
Network Management	WEB NMS CLI management based on Telnet, TFTP, Console SNMP V1/V2/V3 RMON V1/V2 RMON Management

## Solution Diagram:

