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Model

GS 2008S2

8-Port Gigabit Managed Switch
with 2 SFP Slots

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8-Port Gigabit L2 Managed
Switch with 2 SFP Slots
GS2008S2

Product Overview

8-Port Managed Gigabit Ethernet Switch, black iron shell design, built-in DC 12V Power supply, light and simple, with LED indicator on the panel, can dynamically display the connection and operation of equipment, provide simple fault detection methods, and facilitate maintenance and management; this series of switches provide advanced network management functions: redundant ring network, VLAN, cluster, QoS, speed control, port image, fault alarm and firmware online upgrade.

The adaptive port can automatically adapt to the 10m, 100m and 1000m networks, and can automatically adapt to the full duplex or half duplex mode; the MAC address self-learning function ensures error free data transmission; the store and forward mode prevents the damaged packets from flooding in the network; the flow control function can prevent the impact of a large amount of instantaneous data on the network; the port supports MDI/ Mdix auto flip function, non-blocking line speed transmission of all ports.

It is mainly located in the core or convergence layer of user networks such as industrial parks, buildings, factories and mines, government agencies, community broadband, etc.; it can be widely used in Ethernet access scenarios such as small and medium-sized enterprises, Internet cafes, hotels, schools, etc.

Specification

Model	GS2008S2
Power	AC INPUT (100-240V)
Ethernet	8* Gigabit Ethernet Ports
	2* Gigabit SFP Ports
	1* RJ45 Console Port
Bandwidth	20 Gbps
Packet Forwarding Rate	14.88 Mpps
Package Cache	4 Mbit
Memory	128 MB
Flash Memory	16 MB
MAC Address	8K
VLANs	4096
Jumbo Frame	9.6 Kbytes
Transfer Mode	Storage & Forwarding
MTBF	100000 Hours

Product Features

1. Support 8* Gigabit Ethernet Ports+ 2* Gigabit SFP Ports+1* Console Port

2. Support IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, Storage and forwarding

3. Ethernet ports support 10/100/1000M adaptive

4. Adopt store-and-forward switching mechanism

5. Adopt store-and-forward switching mechanism

6. Fanless design, natural Cooling, 1U Rack Mount

7. Support 802.1x port authentication, support AAA authentication, support TACACS+ authentication

8. Support WEB, TELNET, CLI, SSH, SNMP, RMON management

Standard

Network Protocol	IEEE802.3 (Ethernet)
	IEEE802.3u (Rapid Ethernet)
	IEEE 802.3ab (Gigabit Ethernet)
	IEEE 802.3z (Gigabit Ethernet Optic Fiber)
	IEEE802.3x (Flow Control)
	IEEE 802.3az (Energy-efficient Ethernet)
	IEEE 802.3ad (Link aggregation)
	IEEE 802.1AB LLDP/LLDP-MED (Link Layer Discovery Protocol)
	IEEE 802.1D Spanning Tree Protocol STP
	IEEE 802.1w Rapid Spanning Tree Protocol RSTP
	IEEE 802.1s Multiple Spanning Tree Protocol MSTP
	IEEE 802.1Q (Virtual LAN)
	IEEE 802.1p (VLAN Label)
	IEEE 802.1X (User authentication)
Optical Medium	Multi-mode fiber: 50/125, 62.5/125, 100/140um
	Single mode fiber: 8/125, 8.7/125, 9/125, 10/125um
Network Medium	10Base-T: Cat 3, 4, 5 or above UTP(≤100m)
	100Base-TX: Cat 5 or above UTP(≤100m)
	1000Base-TX: Cat 5 or above UTP(≤100m)
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A
	EMS: EN61000-4-2 (ESD),
	EN61000-4-4 (EFT),
	EN61000-4-5 (Surge)

Environment Standard

Working Environment	Working Temperature:-10~50°C
	Storage Temperature:-40~70°C
	Working Humidity: 10%~90%，non-condensing
	Storage Temperature: 5%~90%，non-condensing

Function Indicator

Indicator	PWR(Power Indicator);
	SYS(System Light);
	Link/Act(Link & Data)
PWR	On: Powered On
	Off: Powered Off
SYS	Off: System Off
	On: System On
Link/ACT	On: No Data
	Flashing: Data Transmit
	Off: Link Connection Blocked

Physical Specification	
Structure Size	Product Size: 268*181*44mm
	Package Size: 312*262*84mm
	Product N. W: 1.01 kg
	Product G. W: 1.54 kg
Packing Info	MEAS: 540*435*332 mm
	Packing Qty: 10PCS
	Packing Weight: 16.4 KG
Power Voltage	Machine Input Voltage: AC 100-240V;
	Built-in power output: DC12V 1A; Total Power: 12W
Package List	Switch: 1PCS;
	Power cable: 1PCS;
	Serial cable: 1PCS;
	Instruction manual: 1PCS;
	Certificate: 1PCS

Layer 2 Software Function	
Port Management	Enable/Disable Port
	Speed, Duplex, MTU Setting
	Flow-control
	Port Information Check
Port Mirroring	Supports both side-way port mirroring
Port Speed Limit	Support port rate limiting, the granularity of
	rate limiting is 32Kbps
Port Isolation	Support port isolation Settings
Storm Suppression	Supports unknown unicast, unknown multicast,
	and broadcast storm suppression
Link Aggregation	Support static manual aggregation
	Support LACP dynamic aggregation
	Access
VLAN	Trunk
	hybrid
	Support VLAN division based on port, protocol,
	and MAC address, VLAN tunnel
	Support GVRP dynamic VLAN registration
	Voice VLAN
MAC	Support static addition, deletion
	MAC address learning limit
	Support dynamic aging time setting
Spanning Tree	802.1D Spanning Tree Protocol (STP)
	802.1w Rapid Spanning Tree Protocol(RSTP)
	802.1s Multi Spanning Tree Protocol(MSTP)
Multicast	Support static addition, deletion, IGMP-snooping
	Support MLD-Snooping
	Support v1/2/3 dynamic multicast monitor
DDM	Support SFP/SFP+DDM

Layer 3 Function	
ARP	Support ARP
Extended Function	
ACL	Based on source MAC, destination MAC,
	protocol type, source IP, destination IP, L4 port
QOS	Based on 802.1p (COS) classification
	Based on DSCP classification
	Classification based on source IP, destination IP,
	and port number
	Support SP, WRR scheduling strategy
	Support flow rate limit CAR
LLDP	Support LLDP link discovery protocol
User Setting	Add/delete users
Log	User login, operation, status, events
Anti-attack	DOS Defense
	Support CPU protection and limits the rate of sending
	CPU packets
	ARP binding (IP, MAC, PORT binding)
Certification	Support 802.1x port authentication
	Support AAA certification
Network diagnosis	Support ping, telnet, trace
System Management	Device reset, configuration save/restore,
	upgrade management, time setting, etc

Management Function	
CLI	Support serial port command line management
SSH	Support SSHv1/2 remote management
TELNET	Support telnet remote management
WEB	Support Layer 2 settings, Layer 2 and Layer 3 monitor
SNMP	SNMP V1/V2/V3
	Support trap：ColdStart, WarmStart, LinkDown, LinkUp
RMON	Support RMON v1
Other Functions	Support DHCP Snooping, Option82, DHCP Server
	Support dynamic ARP detection
	Support TACACS+ certification
	Support DNS Setting
	Support port security setting
	Support MVR protocol
	Support cable detection VCT function
	Support UDLD protocol