Model

GS 2018PS2



16-Port Layer 2 Managed Gigabit PoE+
Switch with 2 Uplink Gigabit Ports and
2 Gigabit SFP Slots 200W

1.Product Overview

GS2018 uses high-quality high-speed network IC and the most stable PoE chip. The PoE port complies with the IEEE802.3af or IEEE802.3at standard. This model can provide seamless connection for 10/100/1000M Ethernet, and the PoE power port can automatically detect and supply power to the power receiving device that meets the IEEE802.3af or IEEE802.3at standard. Non-PoE devices are forced to supply power and only transmit data.

2. Product Features

1. 16 x 10/100/1000Mbps auto-sensing PoE Ports, 2 x 10/100/1000Mbps Ethernet Uplink Ports, 2 x Gigabit SFP Uplink Ports, 1 x Console Port
2. Support IEEE802.3/IEEE802.3i/IEEE802.3u/IEEE802.3ab/IEEE802.3z
3. Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w)
4. Ethernet port supports 10/100/1000M adaptive
5. Panel indicator monitoring the status and help failure analysis
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
9. Support PoE Power Management, PoE watch dog
10. Lightning Protection Surge: General Mode 6KV, Differential Mode 4KV, ESD 15KV

3. Product Specifications

Model	GS2018PS2
AC INPUT	AC100-240V，50/60Hz
Ethernet Port	16 * 10/100/1000Mbps PoE Port
	2* 10/100/1000Mbps Uplink Port
	2* 1000Mbps SFP Port
	1 * RJ45 Console Port
Bandwidth	40Gbps
Packet Forwarding rate	29.76Mpps
DDR SDRAM	128MB
Flash Memory	16MB
Packet Buffer Memory	4M
MAC Address	8K
Jumbo frame	9.6Kbytes
VLANs	4096
Network Protocols	IEEE 802.3：Ethernet MAC Protocol
	IEEE 802.3i：10BASE-T Ethernet
	IEEE 802.3u：100BASE-TX Fast Ethernet
	IEEE 802.3ab：1000BASE-T Gigabit Ethernet
	IEEE 802.3z：1000BASE-X Gigabit Ethernet (optical fiber)
	IEEE 802.3ad：Standard method for performing link
	aggregation
	IEEE 802.3x：Flow control
	IEEE 802.1ab：LLDP/LLDP-MED (Link Layer Discovery
	Protocol)
	IEEE 802.1p：LAN Layer QoS/CoS Protocol Traffic
	Prioritization(Multicast filtering function)
	IEEE 802.1q：VLAN Bridge Operation
	IEEE 802.1x：Client/Server Access Control and
	Authentication Protocol
	IEEE 802.1d：STP
	IEEE 802.1s：MSTP
	IEEE 802.1w：RSTP

PoE protocol	IEEE802.3af （15.4 W）
	IEEE802.3at （30 W）
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A
	EMS: EN61000-4-2 (ESD)、EN61000-4-4 (EFT)、
	EN61000-4-5 (Surge)
	Shock: IEC 60068-2-27
	Free Fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
Network Media	10BASE-T: Cat3、4、5 or above UTP(≤100 M)
	100BASE-TX: Cat5 or above UTP(≤100 M)
	1000BASE-TX: Cat5 or above UTP(≤100 M)
Fiber Medium	Multi-mode Fiber: 50/125、62.5/125、100/140um
	Single-mode Fiber: 8/125、8.7/125、9/125、10/125um
Working Environment	Operating temperature: -20~50°C
	Storage temperature: -40~85°C
	Operating Humidity: 10%~90%, No condensation
	Storage Humidity: 5%~90%, No condensation
	Working height: Up to 10,000 feet
	Storage height: Up to 10,000 feet

Function Indication

Indicator	**PWR, SYS, SW, PoE/ACT, Link/ACT**
PWR（Power Indicator）	Lighting： Powered
	Un-Light： No Power
SYS（System Indicator）	Flashing: System Start-up
	Lighting: System Running
PoE/ACT	Lighting： PoE on
	Un-Light： PoE off
Link/ACT	Lighting: Link connection
	Flashing: Data transmission
	Un-Light: Link disconnect

Physical Specifications

Product Information	Product Dimensions: 440*204*44mm
	Package Dimensions: 500*275*85mm
	Product N.W: 2.7KG
	Product G.W: 3.2KG
Packing Information	Carton Dimensions: 520*445*300mm
	Packing Qantity: 5台
	Packing weight: 17KG
Voltage	Input Voltage: AC100-240V/50-60Hz
	Power supply: 52V3.85A
Packing list	1. Ethernet switch: 1 Set
	2. Instruction manual: 1 PCS
	3. Certificate, warranty card: 1 PCS
	4. Power cord: 1PCS
	5. Serial cable: 1PCS
	6. Rack ear: 1 Pairs
	7. Operation manual CD: 1 PCS

Software Function

Basic function	Support hardware watchdog, factory reset, system
	and port LED
	Support global information, statistical information,
	log information
	Support User management, alarm management,
	configuration management
	Support Port rate, duplex, flow control, maximum frame
	length configuration
	Support Port mirroring, port speed limit, port energy saving
PoE function	Support PoE time management
	Support PoE automatic monitoring / PoE Watchdog
	Support PoE port power configuration
VLAN	Support 4K VLAN
	Support 802.1Q VLAN，baesd on port VLAN
	SupportAccess、Trunk、Hybrid VLAN mode
	Support GVRP (VLAN registration protocol)
	Support MAC VLAN 、IP VLAN
	Support Voice VLAN
MAC	Support MAC address automatic learning and aging
	Support Static, dynamic, filtered address table
Security features	Password protection
	Support Restrict user access based on port number,
	IP address, MAC address
	Support HTTPS、SSH V1/V2
	Support VLAN-IP-MAC-PORT binding
	Support ARP detection, IP source protection,
	DoS protection
	Support DHCP Snooping、DHCP Attack protection
	Support 802.1X Certification
	SupportAAA (Authentication, Authorization, Accounting),
	Support RADIUS protocal
	Support Port security, port isolation

Access control	Support L2(Layer 2)～L4(Layer 4) Packet filtering function
	Support Port mirroring, flow rate limiting, QoS remarking
QOS	Support 8 port queues
	Support Port priority, 802.1P priority, DSCP priority
	Support SP, WRR Priority scheduling algorithm
Spanning tree	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and
	MSTP(IEEE 802.1s) protocal
	Support Multi-instance, Support Aggregate interface
	Support BPDU protection
Multicast	Support IGMP v1/v2/v3 Snooping
	Support MLD v1/v2 Snooping
	Support Layer 2 multicast fast leave mechanism, querier
	Support Layer 2 IPv4 static multicast
	Support Layer 2 IPv6 static multicast
	Support IGMP v1/v2/v3 Layer 3 multicast
Storm suppression	Support multicast suppression
	Support broadcast storm suppression
	Support unknown unicast suppression
Ring protection	Support Ring protection
Link Aggregation	Support Static Aggregation
	Support LACP Dynamic Aggregation
	Support based on IP, MAC, mixed load-balancing modes
	Maximum support 8 aggregation groups
	(8 ports per aggregation group)
IPv6	Support IPv6 Ping、IPv6 Traceroute、IPv6 Telnet
	Support IPv6 SSH
	Support IPv6 HTTP 、IPv6 HTTPS

Management and	Support WEB Management (HTTP、HTTPS)
Maintenance	Support CLI (Telnet, SSH V1/V2, Local serial port)
	Support SNMP V1/V2/V3
	Support RMON V2
	Support LLDP Device discovery
	Support SNTP Time synchronization
	Support CPU Monitoring, Memory Monitoring
	Support System log, classification warning
	Support Ping, Traceroute detection, cable detection
	Support WEB Management (HTTP、HTTPS)