



Model

GS2048PS4-720W

48-Port L2 Managed Gigabit PoE++ Switch with 4 10Gigabit SFP slots

1. Features

1. Conforms to IEEE802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3z IEEE802.3af/at/bt, IEEE802.3ad
2. Provides 48 10/100/1000Base-T ports and 4 10Gigabit SFP+
3. Provides 48 PoE ports, 1-4 ports support IEEE802.3af/at/bt, 5-48 ports support IEEE802.3af/at, 750W Built-in power supply
4. High back-plane bandwidth 176Gbps
5. IEEE802.3x Flow control
6. Surge protection for power port and data ports

2. Specifications

Hardware

Fixed port	48 10/100/1000Base-T ports
	4 10Gigabit SFP+ ports
	1 Console port
	1 USB port
	1 Reset port
LED Indicators	PWR, PoE, Link/Act LED
Input voltage	100V~240V AC, 50/60Hz
Power consumption	750W (720W for PoE)
CPU	400MHz ARM Cortex-A9
DDR	2G DDR3 800MHz
RAM	256Mbits
Flash Memory	64Mbits
Operating temperature	0℃~40℃
Storage temperature	-40℃~70℃
Relative humidity	5%~95% (non-condensing)
Thermal methods	Built-in FAN

PoE

PoE port	48 PoE ports. 1-4 ports support IEEE802.3af/at/bt, 5-48 ports support IEEE802.3af/at
PoE Standard	IEEE 802.3af/at/bt
Pin assignment	IEEE 802.3af/at:2 pairs V+ (RJ45 Pin 3, 6), V- (RJ45 Pin 1, 2) IEEE 802.3bt:4 pairs V+ (RJ45 Pin 1, 2), V- (RJ45 Pin 3, 6) V+ (RJ45 Pin 4, 5), V- (RJ45 Pin 7, 8)
PoE management	Support Port-base PoE status view and control.

L2 Switching

Switching capacity	176Gbps
Packet Buffer	16Mbits
Throughput	130.944Mpps

Port configuration

Port auto-negotiation	Support
Port flow control	Support full duplex IEEE802.3x flow control Support Half-duplex back pressure flow control
Broadcast storm control	Support broadcast, multicast, DLF packet rate limit
Port Mirroring	Support
Port Isolation	Support
Port Self-loop Detection	Support
Link Aggregation	Supports up to 128 aggregation groups, each group supports up to 8 ports
Jumbo Frame	Jumbo packets up to 12K bytes
Redundant port	Support

MAC configuration

MAC address table	32K
MAC address table management	Support
Static MAC address	Support.
MAC Address Binding	Support
MAC Address Filtering	Support
MAC Address Learning control	Control number of port-based MAC address learning

VLAN configuration

Number of VLANs	4K
Port-based VLAN	Support
802.1q VLANs	Support
MAC-based VLAN	Support
IP-based VLAN	Support
Protocol-based VLAN	Support
Voice VLAN	Support
VLAN mapping	Support
QinQ	Support

Reliability Protocol

Spanning Tree Protocol	Support STP/RSTP/MSTP
EAPS Protocol	Support
ERPS Protocol	Support G.8032/Y.1344
LLDP	Support LLDP&LLDP-MED
UDLP Protocol	Fully compatible with CISCO's UDLD protocol
VLLP	Support, Use with VRRP routing

Routing

ARP	Support static and dynamic ARP
Static routing	Support
VLAN interface	Support 32 VLAN interfaces

L3 routing protocol

RIP	Support RIP v1/v2
OSPF	Support OSPF v2
Policy routing	Support
VRRP	Support

Multicast functions and protocols

Static multicast MAC address	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3
MVR	Support
GMRP	Support

ACL access control list

ACL based on standard IP	Support
ACL based on extended IP	Support
ACL based on MAC IP	Support
ACL based on MAC ARP	Support
ACL port filtering	Support
ACL based on time	Support

QoS

Number of port queues	8
queue scheduling algorithms	Support WRR,RR,WDRR,SP
Classification based on port	Support
Classification based on 802.1p	Support
Classification based on DSCP	Support
Classification based on ACL	Support
QoS policy	Supports mapping of different data streams to different queues Support data stream to modify COS or DSCP value Support the speed limit of data stream Support data stream statistics Support data stream mirroring

DHCP

DHCP Client	Support
DHCP Snooping	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support

Security

ACL	Support Standard IP / Extend IP / MAC IP / ARP
Security Features	Support MAC-based 802.1X authentication Support AAA/RADIUS authentication Support WEB/Telnet password protection
Self-protection	Support CPU Self-protection.

Management

CLI	Support CLI (Command Line Interface) configuration mode
Console	Support Configuration via the console port
Telnet	Support Local/remote configuration via Telnet
WEB	Support WEB management system
SNMP	Support System configuration with SNMP v1/v2c
User Management	Support Multi-user management
System Log	Support
Configuration File	Support Download/Upload configuration File via
Download/Upload	WEB/TFTP/USB
Upgrade Firmware	Support Upgrade Firmware via WEB/TFTP

Debug

PING	Support
TRACEROUTE	Support
Telnet client	Support
