

Switch Datasheet | CY-S5208-BT-DC

Industrial 8-Port Gigabit PoE+ 2-Port 1G/2.5G SFP L2 Managed Ethernet Switch

Overview

The product is Industrial 8-Port Gigabit PoE+ 2-Port 1G/2.5G SFP L2 Managed Ethernet Switch.

The switch provides 8*10/100/1000Mbps Ethernet RJ-45 ports, 2*1G/2.5Gbps SFP uplink ports. All downlink RJ-45 ports support Power-over-Ethernet (PoE), which can deliver up to 45W power per port. It can be set by software to deliver up to 90W power for port 1, disabled PoE function for port 2 at the same time, and deliver up to 45W power for ports 3 to 8 each. It meets IEEE 802.3af/at/bt standard.

The switch supports PoE watchdog features, which can detect and restart the camera automatically if it stops working. It supports the Q-PoE (Quick PoE) technology, which enables PoE power supply immediately upon switch startup without waiting for switch system software control. It supports the P-PoE (Perpetual PoE) technology, which enables PoE power supply without interruption when switch is restarting and restores the network quickly.

The switch has extensive L2 management functions, such as 802.1Q VLAN, 802.1p QoS, SNMP, Fast-Ring, and PoE control. It can be easily managed via a WEB GUI (http/https), CLI (telnet/ssh/console) or SNMP. The switch supports 12 to 57V DC wide voltage inputs and is designed for high availability applications. It can be widely used in video security monitoring systems, network projects, etc.

Features and Highlights

Abundant Interfaces

- 8*10/100/1000BASE-T PoE RJ-45(Auto MDI/MDIX)
- 2*1G/2.5GBASE-X SFP
- 1*RJ-45 Console
- 1*RS485
- 1*Relay
- 1*USB 3.0
- 1*DC Output

Industrial Design

- Working temperature: -40~75°C
- Redundant power supply, 12~57V wide voltage inputs
- 6kV contact discharge, 8kV air discharge ESD protection
- Fan-less metal shell design
- DIN-rail/wall mounted/desktop installation

Layer 2 Management Function

- 802.1Q VLAN
- 802.1p QoS
- SNMP
- STP/RSTP/MSTP
- Fast-Ring
- IGMP snooping
- DMS (Dashboard management system)



Specifications

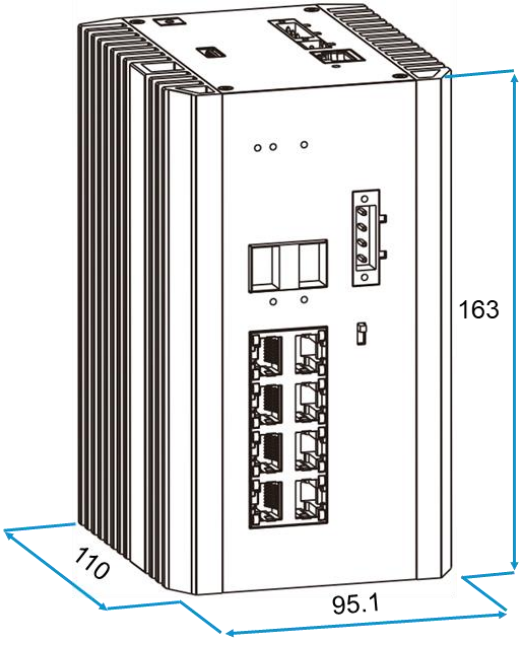
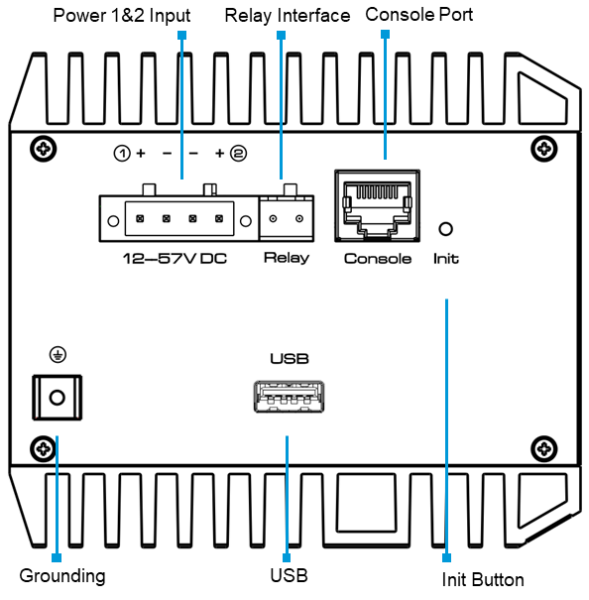
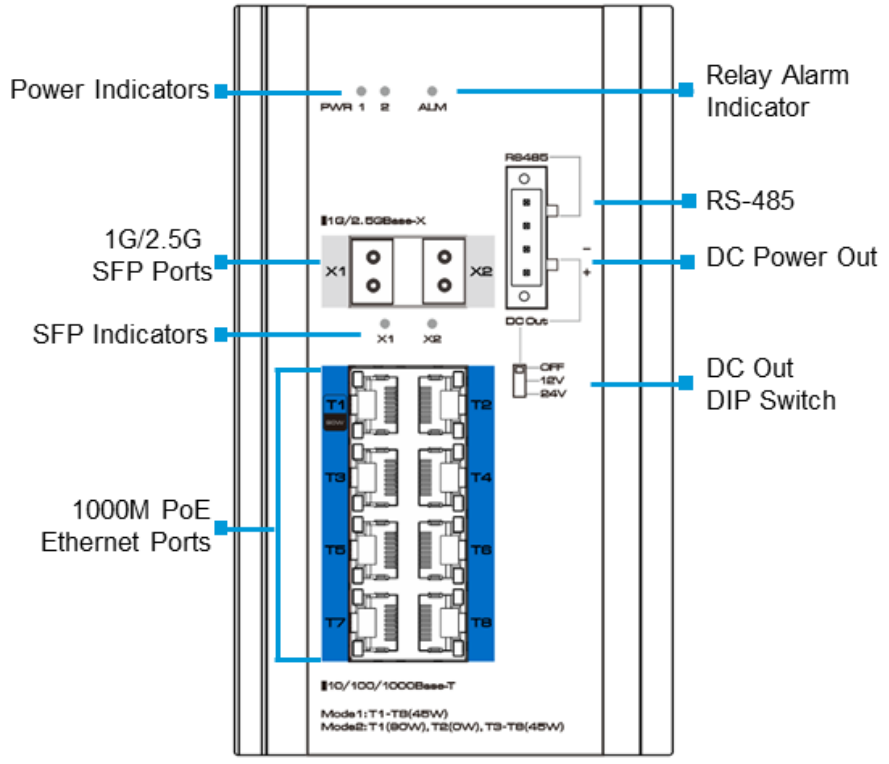
Item	
Hardware Specifications	
Ethernet Ports	8*10/100/1000BASE-T PoE RJ-45(Auto-MDI/MDI-X)
	2*1G/2.5GBASE-X SFP (The default value is 1G)
Management Ports	1*RJ-45 Console 1*Relay
Serial Port	1*RS-485
	RS-485 signal: D+, D- Check bit: None, Even, Odd, Space, Mark Data bit: 5, 6, 7, 8bit Stop bit: 1, 1.5, 2bit Baud rate: 300~115200bps Load capacity: RS-485 port supports 32-point polling environment (128-point could be customized) Direction control: RS-485 adopts automatic data flow control technology
USB Port	USB3.0
Auxiliary DC Output	OFF/12V/24V@2A max
Init Button	Short press to restart the device, Long press >5s to initialize the system
LED Indicators	2*PWR, power indicators
	1*ALM, alarm indicator
	2*SFP port indicators
Dimensions (W*D*H)	163mm*110mm*95.1mm
Net Weight	1.72kg
Input Voltage	Support redundant power supply, Power 1 (Main): 12~57V DC, Power 2 (Backup): 12~57V DC
Power Consumption	≤250W (Full load including PoE & auxiliary DC)
Installation	DIN-rail/Desktop/Wall mounted
Material	Metal shell
Switch Property	
Forwarding Modes	Store and Forward
Switching Capacity	26Gbps / non-blocking
Packet Forwarding Rate	19.344Mpps
MAC Table	16k, support auto learning
Port Buffer	2MB
Jumbo Frame	9kB
Power Supply	
PoE Standard	IEEE 802.3af/at/bt
PoE Power Supply Type	End-span
PoE Pin Assignment	1/2(+), 3/6(-) or 3/6/4/5(+), 1/2/7/8(-)
PoE Budget	Mode1: 45W max for each port Mode2: 90W max for port 1, disabled PoE function for port 2, 45W max for ports 3 to 8 each. 240W@48V, 120W@24V, 60W@12V max for whole switch (Including auxiliary DC output)
Reliability	
ESD	IEC61000-4-2, Level 3: Contact Discharge: ±6kV, Air Discharge: ±8kV
Surge Protection	IEC61000-4-5, Data Port: ±6kV
Operating	-40°C ~75°C, 5%~95% (Non-condensation)
Storage	-40°C ~85°C, 5%~95% (Non-condensation)
Certifications	
Certifications	CE, FCC

Software Architecture

Item			
System State		Ethernet Switch	
System Status	• Device Name	Link Aggregation	• Aggregated Load Pattern
	• MAC Address		• Trunk Name
	• Firmware Version		• Aggregation Pattern
	• Hardware Version		• Port Range
	• System Time	802.1Q VLAN	• Port Range
	• Update Time		• Link Type
Traffic Statistics	• Port No		• PVID
	• Sent Frame Statistics		• VLAN-allowed
	• Received Frame Statistics		• VLAN-untagged
MAC Address Table	• Sort Type	802.1p QoS	• Enable and Disable
	• MAC Address		• QoS Scheduling
	• VLAN ID		• Priority
	• Port	DSCP QoS	• Enable and Disable
Port Configuration	• Address Type		• DSCP Mark Range
			• DSCP Priority
Port Setting	• Port State	WRR Configuration	• bandwidth weights
	• Port Speed	IP Service	
	• Duplex Mode	DHCP Server	• Enable and Disable
	• Flow Control		• Client Lease Time
	• Port Range		• DNS Address
Rate Limit	• Enable and Disable		• WINS Server
	• Port Range		• Pool Name
	• Input Speed Limit		• Network Interface(VID)
	• Output Speed Limit		• Gateway/Subnet
Storm Control	• Port Range		• Start IP Address
	• Broadcast Storm		• Max Client Number
	• Multicast Storm	IP Multicast	
	• Unknown Unicast Storm	IGMP Snooping	• IGMP Interception Setting
Port Isolation	• Port Range		• IGMP Query
	• Port Isolation		• Static multicast MAC address
LLDP Configuration	• Enable and Disable		• VLAN ID
	• Holdtime		• Port Range
	• Interval Time	Security Configuration	
	• Admin Status	802.1X Authentication	• Global Setting
	• Port Range		• Timing Update Authentication
LLDP Neighbors	• Total entries displayed		• Radius Server Setting
	• Device		• Server Port Setting
	• Mac Address		• Port Setting
	• IPv4 Address		• Port Range
	• Local-port	Local Radius Setting	• User login
	• Holdtime		• User password
	• Port-ID		• Radius user settings
	• Capability	AAA	• Authentication login
Mac Limit	• Enable and Disable	Static Address Lock	• Enable and Disable
	• Port Range		• MAC Address
	• Mac Limit Num		• VLAN ID
PoE Setting	• Power setting		• Port
	• Power status	MAC Dynamic Aging	• Aging Time
	• Port status and control		
	• PoE restart & working schedule		

Item	
Reliability	
Rapid spanning tree	• Enable and Disable
	• STP Version
	• Device Priority
	• Message Sending Period
	• Message Maximum Lifetime
	• Port State Transition Delay
	• This Bridge Update Message
	• Modify Configuration
MSTP Region Configuration	• Enable and Disable
	• Region name
	• Version
	• Hello Time
	• Max. Age
	• Forward Delay
MSTP instance configuration	• Max. Hops
	• Instance ID
	• Corresponding VLANs
MSTP Port Configuration	• Priority
	• Path Cost
	• Port Priority
	• Point-to-point
	• Admin Edge
	• Auto Edge
	• Restrict Role
	• Restrict TCN
	• BPDU Filter
	• BPDU Guard
	• Root Guard
MSTP instance information	• Port Range
	• Instance ID
	• MSTP Bridge Information
Fast Ring Protect	• MSTP instance information
	• Enable and Disable
	• Fast Ring Network Group 1
Loopback Protect	• Fast Ring Network Group 2
	• Enable and Disable
	• Protect Automatic Recovery
	• Disable Loop Port Time
	• Port Range
ERPS Ring	• Port Loop Detection
	• Ring Number
	• East Interface
ERPS Instance	• West Interface
	• Enable and Disable
	• Name
	• ID
	• Ring Number
	• Level
	• RAPS VLAN
	• Owner Interface
	• Subring Blocking
	• Associated Instance
Network Diagnosis	
ICMPv4	• Ping IPv4
ICMPv6	• Ping IPv6
Traceroute	• Destination IP
Alarm Management	
Alarm Host	• Enable and Disable
	• Alarm Type
	• Power Supply
	• Port Network
	• Port PoE
DMS	
Device List	• Enable and Disable
	• Type in List
Topology View	• Topology View
System Management	
Port Mirroring	• Enable and Disable
	• Monitor Port
	• Mirror Port Range
	• Collect Data
SNMP	• Enable and Disable
	• SNMP Gateway
	• SNMP Version
	• Read-only Group Name
	• Read and Write Group Name
	• SNMP V3 setting
Telnet	• Enable and Disable
HTTP	• HTTP and HTTPS
Time	• Time Setting
	• World Time Zone
	• NTP Server
	• System Time
	• PC Time
Syslog	• Enable and Disable
	• Show Type
	• Information Processing
Management	• Restore Factory Value
	• System Reboot
	• Download Configuration File
	• Upload Configuration File
User Setting	• Choose upgrade file
	• Access Privilege
	• Username
	• Input password
	• Confirm password
Timing Restart	• Password type
	• Every day
	• Every week
	• Every month
Manage IP Address	• Access
	• Manage VLAN
	• IP Addr
	• Subnet mask
	• Default gateway
	• DNS address
	• IPv6 address
	• IPv6 default gateway
One Key Smart	• CCTV Mode
	• Device Lock
	• Fast Ring
	• Device Online

Appearances and Dimensions

Item	
Dimensions(mm)	Side Panel
	
Front Panel	
	

Packing List

Welcome to order our products. After purchasing, you will receive:

Item	Quantity
Switch	1 pc
Mounting Accessory	1 set
Quick Installation Guide	1 pc