

# 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

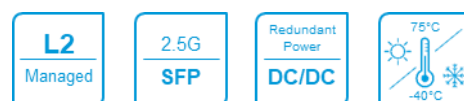
- 8\*10/100/1000BASE-T PoE RJ-45(Auto MDI/MDIX)
- 2\*1G/2.5GBASE-X SFP
- 1\*RJ-45 Console
- 1\*RS485
- 1\*Relay
- 1\*USB 3.0
- 1\*DC Output

### 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

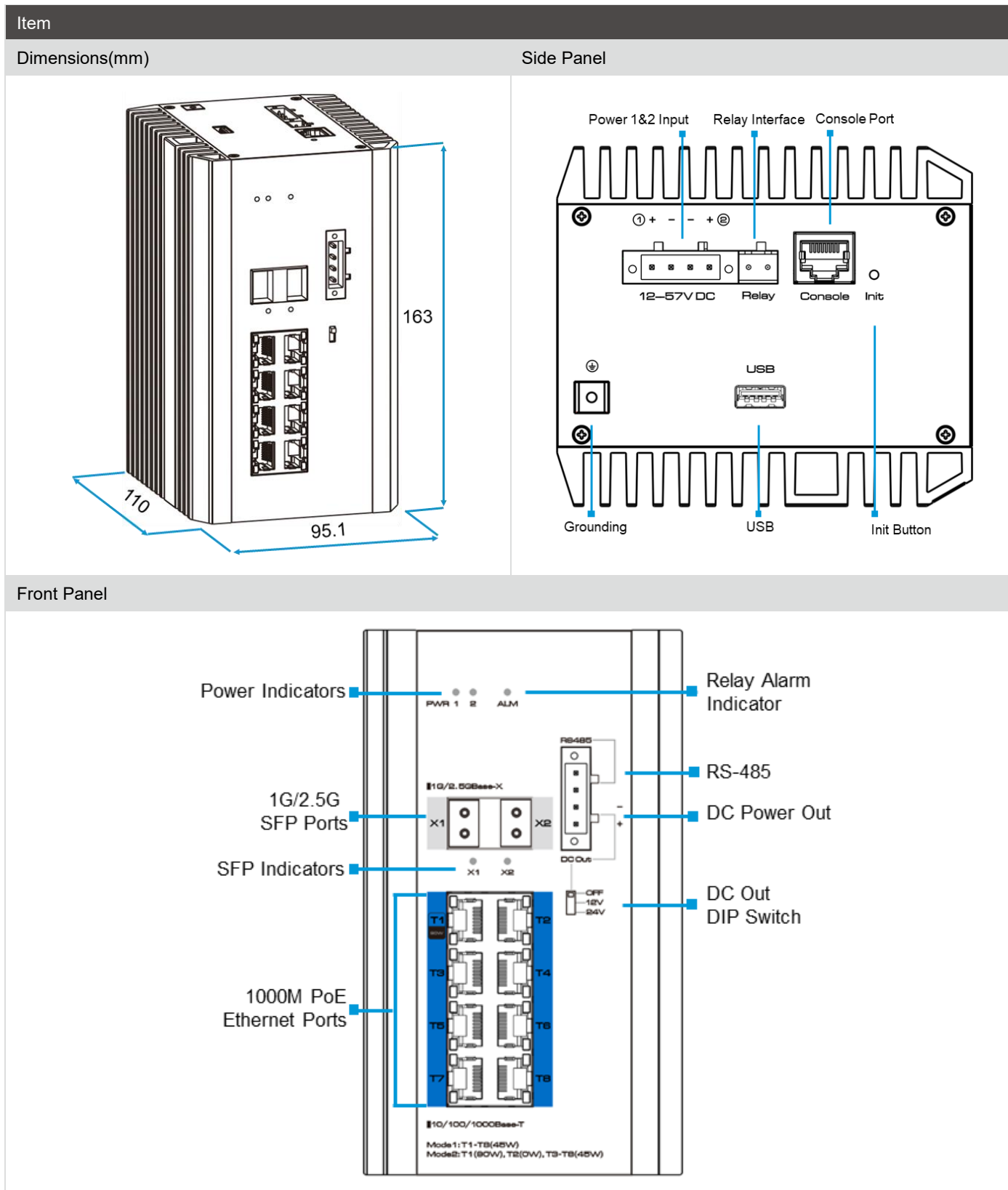
Item	
Hardware Specifications	
Ethernet Ports	8*10/100/1000BASE-T PoE RJ-45(Auto-MDI/MDI-X) 2*1G/2.5GBASE-X SFP (The default value is 1G)
Management Ports	1*RJ-45 Console 1*Relay
Serial Port	1*RS-485 RS-485 signal: D+, D- Check bit: None, Even, Odd, Space, Mark Data bit: 5, 6, 7, 8bit Stop bit: 1, 1.5, 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	
<b>System State</b>	
System Status	• Device Name
	• MAC Address
	• Firmware Version
	• Hardware Version
	• System Time
	• Update Time
Traffic Statistics	• Port No
	• Sent Frame Statistics
	• Received Frame Statistics
MAC Address Table	• Sort Type
	• MAC Address
	• VLAN ID
	• Port
	• Address Type
<b>Port Configuration</b>	
Port Setting	• Port State
	• Port Speed
	• Duplex Mode
	• Flow Control
Rate Limit	• Port Range
	• Enable and Disable
	• Input Speed Limit
	• Output Speed Limit
Storm Control	• Port Range
	• Broadcast Storm
	• Multicast Storm
Port Isolation	• Port Range
	• Port Isolation
LLDP Configuration	• Enable and Disable
	• Holdtime
	• Interval Time
	• Admin Status
LLDP Neighbors	• Port Range
	• Total entries displayed
	• Device
	• Mac Address
	• IPv4 Address
	• Local-port
	• Holdtime
	• Port-ID
• Capability	
Mac Limit	• Enable and Disable
	• Port Range
	• Mac Limit Num
PoE Setting	• Power setting
	• Power status
	• Port status and control
	• PoE restart & working schedule
<b>Ethernet Switch</b>	
Link Aggregation	• Aggregated Load Pattern
	• Trunk Name
	• Aggregation Pattern
802.1Q VLAN	• Port Range
	• Link Type
	• PVID
	• VLAN-allowed
802.1p QoS	• VLAN-untagged
	• Enable and Disable
	• QoS Scheduling
DSCP QoS	• Priority
	• Enable and Disable
	• DSCP Mark Range
WRR Configuration	• DSCP Priority
	• bandwidth weights
<b>IP Service</b>	
DHCP Server	• Enable and Disable
	• Client Lease Time
	• DNS Address
	• WINS Server
	• Pool Name
	• Network Interface(VID)
	• Gateway/Subnet
	• Start IP Address
• Max Client Number	
<b>IP Multicast</b>	
IGMP Snooping	• IGMP Interception Setting
	• IGMP Query
	• Static multicast MAC address
	• VLAN ID
Security Configuration	• Port Range
	• Global Setting
802.1X Authentication	• Timing Update Authentication
	• Radius Server Setting
	• Server Port Setting
	• Port Setting
	• Port Range
Local Radius Setting	• User login
	• User password
	• Radius user settings
AAA	• Authentication login
Static Address Lock	• Enable and Disable
	• MAC Address
	• VLAN ID
	• Port
MAC Dynamic Aging	• Aging Time

Item	
<b>Reliability</b>	
Rapid spanning tree	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• STP Version</li> <li>• Device Priority</li> <li>• Message Sending Period</li> <li>• Message Maximum Lifetime</li> <li>• Port State Transition Delay</li> <li>• This Bridge Update Message</li> <li>• Modify Configuration</li> </ul>
MSTP Region Configuration	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• Region name</li> <li>• Version</li> <li>• Hello Time</li> <li>• Max. Age</li> <li>• Forward Delay</li> <li>• Max. Hops</li> </ul>
MSTP instance configuration	<ul style="list-style-type: none"> <li>• Instance ID</li> <li>• Corresponding VLANs</li> <li>• Priority</li> </ul>
MSTP Port Configuration	<ul style="list-style-type: none"> <li>• Path Cost</li> <li>• Port Priority</li> <li>• Point-to-point</li> <li>• Admin Edge</li> <li>• Auto Edge</li> <li>• Restrict Role</li> <li>• Restrict TCN</li> <li>• BPDU Filter</li> <li>• BPDU Guard</li> <li>• Root Guard</li> <li>• Port Range</li> </ul>
MSTP instance information	<ul style="list-style-type: none"> <li>• Instance ID</li> <li>• MSTP Bridge Information</li> <li>• MSTP instance information</li> </ul>
Fast Ring Protect	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• Fast Ring Network Group 1</li> <li>• Fast Ring Network Group 2</li> </ul>
Loopback Protect	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• Protect Automatic Recovery</li> <li>• Disable Loop Port Time</li> <li>• Port Range</li> <li>• Port Loop Detection</li> </ul>
ERPS Ring	<ul style="list-style-type: none"> <li>• Ring Number</li> <li>• East Interface</li> <li>• West Interface</li> </ul>
ERPS Instance	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• Name</li> <li>• ID</li> <li>• Ring Number</li> <li>• Level</li> <li>• RAPS VLAN</li> <li>• Owner Interface</li> <li>• Subring Blocking</li> <li>• Associated Instance</li> </ul>
<b>Network Diagnosis</b>	
ICMPv4	• Ping IPv4
ICMPv6	• Ping IPv6
Traceroute	• Destination IP
<b>Alarm Management</b>	
Alarm Host	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• Alarm Type</li> <li>• Power Supply</li> <li>• Port Network</li> <li>• Port PoE</li> </ul>
<b>DMS</b>	
Device List	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• Type in List</li> </ul>
Topology View	• Topology View
<b>System Management</b>	
Port Mirroring	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• Monitor Port</li> <li>• Mirror Port Range</li> <li>• Collect Data</li> </ul>
SNMP	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• SNMP Gateway</li> <li>• SNMP Version</li> <li>• Read-only Group Name</li> <li>• Read and Write Group Name</li> <li>• SNMP V3 setting</li> </ul>
Telnet	• Enable and Disable
HTTP	• HTTP and HTTPS
Time	<ul style="list-style-type: none"> <li>• Time Setting</li> <li>• World Time Zone</li> <li>• NTP Server</li> <li>• System Time</li> <li>• PC Time</li> </ul>
Syslog	<ul style="list-style-type: none"> <li>• Enable and Disable</li> <li>• Show Type</li> <li>• Information Processing</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Restore Factory Value</li> <li>• System Reboot</li> <li>• Download Configuration File</li> <li>• Upload Configuration File</li> <li>• Choose upgrade file</li> </ul>
User Setting	<ul style="list-style-type: none"> <li>• Access Privilege</li> <li>• Username</li> <li>• Input password</li> <li>• Confirm password</li> <li>• Password type</li> </ul>
Timing Restart	<ul style="list-style-type: none"> <li>• Every day</li> <li>• Every week</li> <li>• Every month</li> </ul>
Manage IP Address	<ul style="list-style-type: none"> <li>• Access</li> <li>• Manage VLAN</li> <li>• IP Addr</li> <li>• Subnet mask</li> <li>• Default gateway</li> <li>• DNS address</li> <li>• IPv6 address</li> <li>• IPv6 default gateway</li> </ul>
One Key Smart	<ul style="list-style-type: none"> <li>• CCTV Mode</li> <li>• Device Lock</li> <li>• Fast Ring</li> <li>• Device Online</li> </ul>

# Appearances and Dimensions



## 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

## More Information

For more information, please visit:

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