

IPS-3112-PoE++ Series Managed Industrial PoE Switch



8 Ports 10/100/1000Base-T 60W PoE ports
4 Ports 100/1000Base-X SFP ports
Managed Industrial Switch

Description

Connection Technology Systems (CTS) IPS-3112-PoE++ series Industrial PoE Switch are the Fast & Gigabit Ethernet 10/100/1000Base-T to 100/1000Base-X Industrial PoE Switch.

It switches the traditionally twisted-pair RJ-45 cable into various fiber optics media. IPS-3112-PoE++ series offer easy management of uplink port (4 x port fiber). The fiber optical port of IPS-3112-PoE++ series can support various connection distances via multi-mode fiber, single-mode fiber or Bi-directional single-mode fiber for the deployment to the control room, warehouse, or factory.

The IPS-3112-PoE++ Industrial PoE Switch series are designed for deployment at industrial sites. With DIN-rail mounting, you can easily mount the Industrial PoE Switch at your sites such as factory or warehouse. The Terminal Block can provide power redundancy to prevent any possible power outage and digital input/output to serve as an alarm.

The IPS-3112-PoE++ Industrial PoE Switch series provide perfect solution for delivering power over Ethernet for IP cameras, WiFi access points or IP phones at an extended operating temperature (-40°C ~ 75°C) to withstand against harsh environment for better performance. IPS-3112-PoE++ series are fully compliant with IEEE standards such as IEEE802.3/802.3u/802.3ab/802.3z to ensure interoperability between network devices.


The IPS-3112-PoE++ Industrial PoE Switch series provide easy management ways via telnet CLI and SNMP. With CTS proprietary SNMP power down trap feature, IPS-3112-PoE++ series are able to send out SNMP trap messages when encountering power outage to significantly help saving OPEX (operational cost) for the network administrator.

Features

- Network Redundant LACP, Spanning Tree STP, RSTP and Fast Ring, Fail-Over Protection (< 50 ms)
- Port-Based /Tag-Based VLAN, Add/Remove VLAN Tags
- Broadcast Storm Control
- Dual Power Input (45~55 VDC) & Reverse Power Protection
- Support 10K Jumbo Frames
- L2 Wire-Speed Switching Engine
- 8K MAC Forwarding Addresses
- DIN-Rail and Wall Mount (Optional)
- Support PoE IEEE802.3 af/at
- PoE Budget 60W Max. on Port 1~8, 480W Max. Total
- Extended Operation Temperature -40°C ~ 75°C
- All Aluminum Housing for Excellent Heat Dissipation
- +/- 6KV Surge Protection on PoE Ports

Target Applications

- Point-to-Point Fiber Connectivity under Harsh Surroundings.
- Long-Distance IP Surveillance Network Deployment.
- Factory, Parking Lot, ITS, Smart City Network Deployment.

 Contents are subject to change without prior notice.

Interface

- LAN :
- 8 x 10/100/1000Mbps RJ-45, PoE/PSE
- WAN :
- 4 x 100/1000 Mbps SFP Slot)
 - Console : 1 x RS-232 (RJ-45)

Standards

- IEEE802.3 10Base-T
- IEEE802.3u 100Base-TX/FX
- IEEE802.3ab 1000Base-T
- IEEE802.3az EEE
- IEEE802.3z 1000Base-X
- IEEE802.1p Priority
- IEEE802.1q Tag VLAN
- IEEE802.3x Flow Control
- IEEE802.1d STP
- IEEE802.1w RSTP
- IEEE802.3af Power over Ethernet
- IEEE802.3at Power over Ethernet Enhancements

H/W Specification

- Store and Forward Switching Mechanism
- Auto-Crossover for MDI/MDIX in TP Port
- Auto-Negotiation in TP Ports
- Full/Half Duplex Mode Operation
- Jumbo Frame up to : 10K Bytes
- MAC Address Table : 8K
- Non-Blocking Switching Fabric : 24Gbps
- VLAN ID : 4K
- 1 Digital Output(Alarm Relay)
- 1 Digital Input

Forward / Filter Rate

- 10M : 14,880/14,880pps
- 100M : 148,800/148,800pps
- 1000M : 1,488,000/1,488,000pps

LED

- P1, P2, STA, ALM, Master, Ring , EXP, Link/ACT, PoE, Reset

Switch Feature

- IEEE802.1q Tag Based VLAN
- IGMP Snooping v1/v2
- QoS Based on P-bit, VLAN, DSCP
- Broadcast Storm Control
- Port Mirroring
- Port Trunking
- Loop Detection
- Time Range

Traffic Management

- QoS , SPQ, WRR

Network Management

- Telnet CLI
- SNMP v1/v2c/v3
- DHCP Client
- FTP/HTTP/TFTP Firmware Upgrade
- Dual Image
- SNTF
- SSHv2
- Eventlog
- Syslog

Network Redundancy

- STP/RSTP, CTS Fast Ring

Installation Type

- DIN-Rail Mount , Wall Mount (Optional)

Power Requirement

- DC Input :
- Redundant Input Terminals
- Input Voltage :
- DC : 48~55VDC
- Power Consumption : TBC

Environmental Condition

- Operation: -40°C ~ 75°C
- Storage Temperature: -40°C ~ 85°C
- Humidity: 5% ~ 95%, Non-Condensing

Dimension & Weight

- Size : 81 x 135 x 200 mm (WxDxH)
- Weight : 1.84Kg
- Housing : Aluminum, IP30

EMC/Safety

- FCC Class A, CE



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Order Information

IPS-3112 PoE++ Series

MODEL	Description	Gigabit Ethernet Port	
		10/100/1000BaseTX	1G(SFP)
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Power Supply

DR-15-12	12V/15W DIN-Rail Power Supply	Working Temperature : -20°C ~55°C , 15W
MDR-20-12	12V/20W DIN-Rail Power Supply	Working Temperature : -20°C ~50°C , 20W
MDR-60-48	48V/60W DIN-Rail Power Supply	Working Temperature : -20°C ~55°C , 60W
SDR-75-48	48V/75W DIN-Rail Power Supply	Working Temperature : -25°C ~60°C , 75W
SDR-120-48	48V/120W DIN-Rail Power Supply	Working Temperature : -25°C ~60°C , 120W
WAP-POWER-48D240/SDR-240-48	48V/240W DIN-Rail Power Supply	Working Temperature : -25°C ~60°C , 240W

* Choose the appropriate power supply based on power watt requirement

SFP-31-DR

MODEL	FIBER PORT					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-31FC-DR	100Mbps/1000Mbps	MM	LC	2KM/550M	1310nm	0°C to 70°C
SFP-31FC(SM-10)-DR	100Mbps/1000Mbps	SM	LC	10KM	1310nm	0°C to 70°C
SFP-31W2A(SM-10)-DR	100Mbps/1000Mbps	WDM	LC	10KM	TX:1310nm RX:1550nm	0°C to 70°C
SFP-31W2B(SM-10)-DR	100Mbps/1000Mbps	WDM	LC	10KM	TX:1550nm RX:1310nm	0°C to 70°C

SFP-31-D

MODEL	FIBER PORT					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-31FC-D	1000Mbps	MM	LC	550M	850nm	-40°C to 85°C
SFP-31FC-02-D	1000Mbps	MM	LC	2KM	1310nm	-40°C to 85°C
SFP-31FC(SM-10/20/40/80)-D	1000Mbps	SM	LC	10/20/40/80KM	1310nm/1310nm/1310nm/1550nm	-40°C to 85°C
SFP-31W2A(SM-10/20)-D	1000Mbps	WDM	LC	10/20KM	TX:1310nm/1310nm RX:1550nm/1550nm	-40°C to 85°C
SFP-31W2B(SM-10/20)-D	1000Mbps	WDM	LC	10/20KM	TX:1550nm/1550nm RX:1310nm/1310nm	-40°C to 85°C