IPS-3120-PoE++ Series
Managed Industrial PoE Switch

8 Ports 10/100/1000Base-T 60W PoE ports
8 Ports 10/100/1000Base-T 30W PoE ports
4 Ports 100/1000Base-X SFP ports
Managed Industrial Switch

IP30 · **Plug &play** · **PoE+ 30** · **PoE++ 60**

Power down trap · **Power redundancy** · **Ring protection** · **-40℃~75℃**

Description

Connection Technology Systems (CTS) IPS-3120-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-3120-POE++ series offer easy management of uplink port (10/100/1000Mbps RJ-45 + 100/1000 SFP slot). The fiber optical port of IPS-3120-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-3120-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 two Terminal Blocks can provide power redundancy to prevent any possible power outage and digital output to serve as an alarm.

The IPS-3120-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℃ ~ 75℃) to withstand against harsh environment for better performance. IPS-3120-POE++ series are fully compliant with IEEE standards such as IEEE802.3/802.3u/802.3ab/802.3az to ensure interoperability between network devices.

The IPS-3120-POE++ Industrial PoE Switch series provide easy management ways via telnet CLI and SNMP. To fulfill the requirement of mass deployment, the device also supports DHCP auto-provision mechanism to allow the network administrator to manage the device configuration automatically and dynamically.

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 (48~55 VDC) & Reverse Power Protection
- Provide 8 RJ-45 Copper Ports & 4 SFP Ports 100FX or 1000BaseF (SX/LX/LH)
- Support 10K Jumbo Frames
- L2 Wire-Speed Switching Engine
- 8K MAC Addresses Table
- DIN-Rail and Wall Mount (Optional)
- Support PoE IEEE802.3 af/at
- PoE Budget 60W Max. on Port 1~8, 720W Max. Total
- Extended Operation Temperature -40℃ ~ 75℃
- 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 Ports 10/100/1000Base-T 60W PoE ports
- 8 Ports 10/100/1000Base-T 30W PoE ports

WAN :
- 4 Ports 100/1000Base-X SFP ports
- 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
IEEE802.1X Authentication Network Access Control

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 : 40Gbps
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
- SNTP
- SSHv2
- Eventlog
- Syslog

Network Redundancy
STP/RSTP, CTS Fast Ring, G.8032 ERPS

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℃ ~ 75℃
Storage Temperature: -40℃ ~ 85℃
Humidity: 5% ~ 95%, Non-Condensing

Dimension & Weight
- Size
  IPS-3120-PoE++: 124 x 135 x 200 mm
  (WxDxH)
- Weight
  IPS-3120-PoE++: 3Kg
- Housing : Aluminum, IP30

EMC/Safety
FCC Class A, CE

Order Information

IPS-3120 PoE++ Series

MODEL	Description	Gigabit Ethernet Port	
		10/100/1000BaseTX	1G(SFP)
IPS-3120 PoE++	IPS-3120-PoE++ Series Managed Industrial PoE Switch	16	4

Power Supply

DR-15-12	12V/15W DIN-Rail Power Supply	Working Temperature : -20℃~55℃ , 15W
MDR-20-12	12V/20W DIN-Rail Power Supply	Working Temperature : -20℃~50℃ , 20W
MDR-60-48	48V/60W DIN-Rail Power Supply	Working Temperature : -20℃~55℃ , 60W
SDR-75-48	48V/75W DIN-Rail Power Supply	Working Temperature : -25℃~60℃ , 75W
SDR-120-48	48V/120W DIN-Rail Power Supply	Working Temperature : -25℃~60℃ , 120W
WAP-POWER-48D240/SDR-240-48	48V/240W DIN-Rail Power Supply	Working Temperature : -25℃~60℃ , 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℃ to 70℃
SFP-31FC(SM-10)-DR	100Mbps/1000Mbps	SM	LC	10KM	1310nm	0℃ to 70℃
SFP-31W2A(SM-10)-DR	100Mbps/1000Mbps	WDM	LC	10KM	TX:1310nm RX:1550nm	0℃ to 70℃
SFP-31W2B(SM-10/)-DR	100Mbps/1000Mbps	WDM	LC	10KM	TX:1550nm RX:1310nm	0℃ to 70℃

SFP-31-D

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

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