IPS-3110 Series Managed Industrial PoE Switch

8 x 10/100/1000Mbps RJ-45 PoE/PSE , plus
2 Combo Uplink Ports (10/100/1000Mbps RJ-45 +
100/1000 SFP Slot)
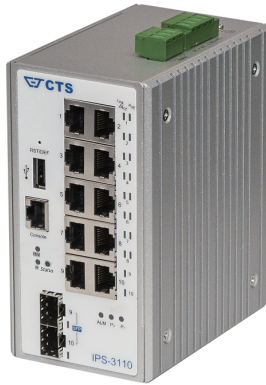
Features

- Provide 10 RJ-45 Copper Ports & 2 SFP Ports 100FX or 1000BaseF (SX/LX/LH)
- Support 9K Jumbo Frames
- L2 Wire-Speed Switching Engine
- 16K MAC Forwarding Addresses
- 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
- DIN-Rail and Wall Mount (Optional)
- Support PoE IEEE802.3 af/at
- PoE Budget 30W Max. per Port, 240W Max. Total
- Extended Operation Temperature -40℃ ~ 75℃
- All Aluminum Housing for Excellent Heat Dissipation

Description

Connection Technology Systems (CTS) IPS-3110 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-3110 series offer easy management of uplink port (10/100/1000Mbps RJ-45 + 100/1000 SFP slot). The fiber optical port of IPS-3110 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-3110 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-3110 Industrial PoE Switch series provide perfect solution for delivering power over Ethernet for IP cameras, WiFi acces points or IP phones at an extended operating temperature (-40℃ ~ 75℃) to withstand against harsh environment for better performance. IPS-3110 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-3110 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.

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.

Specification

Interface
LAN :
- 8 x 10/100/1000Mbps RJ-45, PoE/PSE
WAN :
- 2 x Combo Ports
  (10/100/1000 RJ-45 + 100/1000 SFP Slot)
- USB : 1 x USB2.0 (Host Type A)
- 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/IEEE802.1w STP/RSTP
IEEE802.3af Power over Ethernet
IEEE802.3at Power over Ethernet Enhancements

H/W Specification
Store and Forward Switching Mechanism
Auto Crossover for MDI/MDI-X in TP Port
Auto Negotiation in TP Port
Half/Full Duplex Mode Operation
Jumbo Frame up to : 9K Bytes
MAC Address Table : 16K
Non-Blocking Switching Fabric : 20Gbps
VLAN ID : 4K
1 Digital Output(Alarm Relay)

Forward / Filter Rate
10M : 14,880/14,880pps
100M : 148,800/148,800pps
1000M : 1,488,000/1,488,000pps

LED
P1, P2 ,ALM, RM, R , Status,
LAN, PoE, F/O

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

Traffic Management
QoS , SPQ, WRR

Network Management
Telnet CLI
SNMP v1/v2c
DHCP Client
FTP/HTTP/TFTP/USB Firmware Upgrade
Dual Image
SNTP
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 :
- DC : 255W
(8 Ports PoE Full Loading)

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

Dimension & Weight
Size : 73 x 110 x 135 mm (WxDxH)
Weight : 0.92Kg
Housing : Aluminum, IP40

EMC/Safety
FCC Class A, CE

⚠ Contents are subject to change without prior notice.

Order Information

IPS-3110 Series

MODEL	Description	Gigabit Ethernet Port	
		10/100/1000BaseTX	1G(SFP or RJ-45)
IPS-3110SFP	Industrial 10-Ports Gigabit Managed PoE Ethernet Switch	8	2

Power Supply

WAP-POWER-48D240/SDR-240-48	48V/240W DIN-Rail Power Supply	Working Temperature : -25℃~60℃, 240W 60℃~70℃, output derating 2.5% per degree (180W at 70℃)

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℃

⚠ Contents are subject to change without prior notice.