IPS-1042FX-24V Series

▶ Industrial 6-port unmanaged PoE Ethernet switch with 4x10/100Base-T(X) P.S.E. and 2x100Base-FX, 24VDC power input

Features

- IPS-1042FX-24V series provide 4x10/100Base-T(X) PoE (P.S.E.) and 2x100Base-FX single/multi-mode fiber ports
- Supports IEEE 802.3at compliant 30Watts PoE per port
- Support auto-negotiation and auto-MDI/MDI-X
- Support store and forward transmission
- Support flow control
- Support surge protection technology
- Warning system by relay output
- Slim type rigid IP-30 housing design
- DIN-Rail and wall mounting enabled











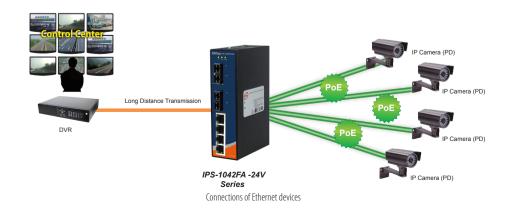


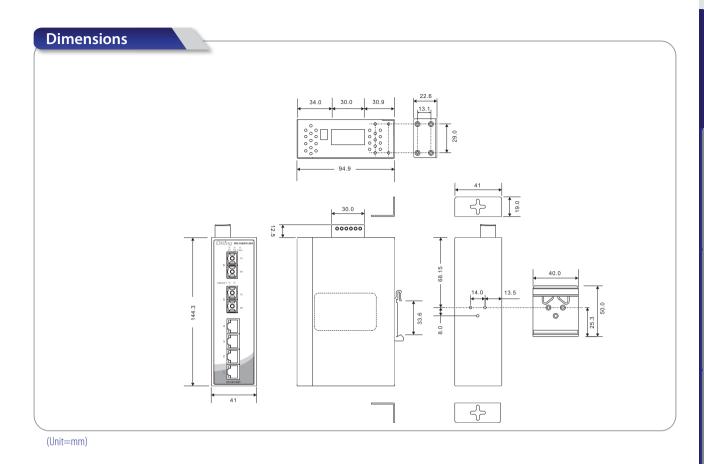
Introduction

IPS-1042FX-24V series are unmanaged PoE Ethernet switches with 4 x 10/100Base-T(X) P.S.E. and 2x100Base-FX ports. IPS-1042FX-24V series supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. IPS-1042FX-24V series has 4X10/100Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. IPS-1042FX-24V series support redundant power inputs, configurable relay output alarm and rigid IP-30 housing. In addition, the wide operating temperature range from -40 to 70°C can satisfy most of operating environment.

Practical Operation

IPS-1042FX-24V series can be used in connecting several Ethernet devices like Ethernet I/O, IP-Camera or other Ethernet switches. In addition, there are two different power inputs at terminal block to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.





PoE Pin Assignment

10/100Base-T(X) P.S.E. RJ-45 Port				
RJ-45 Pin Definition				
Pin No.	Description			
#1	TD+ with PoE Power input +			
#2	TD- with PoE Power input +			
#3	RD+ with PoE Power input -			
#6	RD- with PoE Power input -			

Specifications

ORing Switch Model		IIPS-1042FX-MM-SC-24V	IPS-1042FX-SS-SC-24V	
Physical Ports Physical Ports				
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX with P.S.E.		4	4	
Fiber Ports Specifications	Fiber Ports Number	2	2	
	Fiber Ports standard	100Base-FX	100Base-FX	
	Fiber Mode	Multi-mode	Single-mode	
	Fiber Diameter (µm)	62.5/125 μm & 50/125 μm	9/125 μm	
	Fiber Optical Connector	SC	SC	
	Typical Distance (km)	2 km	30 km	
	Wavelength (nm)	1310 nm	1310 nm	

ORing Switch Model		IPS-1042FA-MM-SC	IPS-1042FA-SS-SC		
Fiber Ports Specifications	Max. Output Optical Power (dBn	-14 dBm	-8 dBm		
	Min. Output Optical Power (dBm	-23.5 dBm	-15 dBm		
	Max. Input Optical Power (Saturation)	0 dBm	0 dBm		
	Min. Input Optical Power(Sensit	vity) -31 dBm	-34 dBm		
Link Budget (dB)		7.5 dB	19 dB		
Technology					
Ethernet Standards IE		EE 802.3 for 10Base-T EE 802.3u for 100Base-T(X) and 100Base-FX EE 802.3x for Flow control EE 802.3at PoE specification			
MAC Table		B MAC addresses			
Processing		Store-and-Forward	e-and-Forward		
LED Indicators					
Power Indicator		Green: Power LED x 2			
Fault Indicator		Amber : Indicate PWR1 or PWR2 failure			
		een for port Link/Act. een for PoE power injected.			
100Base-FX Fiber Po	ort Indicator	Green for port Link/Act.	n for port Link/Act.		
Fault contact					
Relay		Relay output to carry capacity of 1A at 24VDC			
Power					
Redundant Input Po	ower	Dual DC inputs. 24~36VDC on 6-pin terminal block.			
Power Consumption (Typ.)		6.48 Watts (power consumption of P.S.E. is not included)	5.4 Watts (power consumption of P.S.E. is not included)		
Overload Current Pr	otection	Present			
Reverse Polarity Pro	tection	NOT Present			
Physical Charact	eristics				
Enclosure		2-30			
Dimensions (W x D x H)		1 (W) x 144.3 (H) x 94.9 (D) mm (1.61 x 5.68 x 3.74 inch)			
Weight (g)		530 g			
Environmental	Environmental				
Storage Temperature	2	-40 to 85°C (-40 to 185°F)			
Operating Temperature		0 to 70°C (-40 to 158°F)			
Operating Humidity		5% to 95% Non-condensing	o 95% Non-condensing		
Regulatory Appr	Regulatory Approvals				
EMI		FCC Part 15, CISPR (EN55022) class A			
EMS EN610		EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-11	61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8,		
Shock IEC600		IEC60068-2-27			
Free Fall IEC600		IEC60068-2-32			
Vibration IEC600		IEC60068-2-6			
Safety EN609		EN60950-1			
Warranty 5 year		5 years			

Ordering Information IPS-1 AA B CC - DD - EE - 24V Code Definition 10/100Base-T(X) P.S.E. Port Number Additional Port Number Additional Port Type Fiber Optical Mode Fiber Optical Connector Option - 04: 4 ports - 2: 2 ports - FA: 100 Base-FX - MM: Multi-mode - SS: Single-mode - SS: Single-mode - SC: SC connector

	Model Name	Description
Available Model	IPS-1042FX-MM-SC-24V	Industrial 6-port unmanaged PoE Ethernet switch with 4x10/100Base-T(X) P.S.E. and 2x100Base-FX, multi-mode, 2Km/1310nm, SC connector, 24VDC power input
	IPS-1042FX-SS-SC-24V	Industrial 6-port unmanaged PoE Ethernet switch with 4x10/100Base-T(X) P.S.E. and 2x100Base-FX, single-mode, 30Km/1310nm, SC connector, 24VDC power input
Packing List • IPS-1042FX-MM/SS-24V • DIN-Rail Kit • Wall-mount Kit • Outk Installation Guide		Optional Accessories (Can be purchased separately) • DR-45-24: 45 Watts@24VDC DIN-Rail power supply • DR-75-24: 75 Watts@24VDC DIN-Rail power supply • DR-120-24: 120 Watts@24VDC DIN-Rail power supply