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

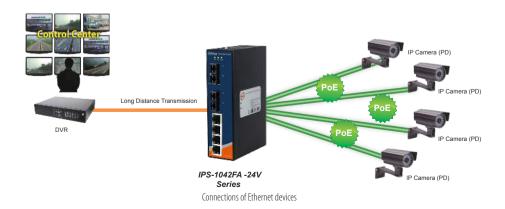


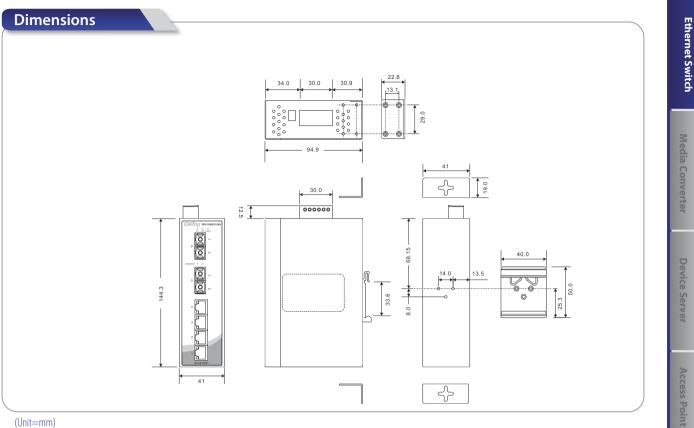
Introduction

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

c	Ring Switch Model	IIPS-1042FX-MM-SC-24V	IPS-1042FX-SS-SC-24V			
Physical Ports						
10/100 Base-T(X) Auto MDI/MDIX wi	Ports in RJ45 ith 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			

Industrial

0	Ring Switch Model	IPS-1042FA-MM-SC	IPS-1042FA-SS-SC				
	Max. Output Optical Power (dBm	-14 dBm	-8 dBm				
	Min. Output Optical Power (dBm)	-23.5 dBm	-15 dBm				
Fiber Ports Specifications	Max. Input Optical Power (Saturation)	0 dBm	0 dBm				
specifications	Min. Input Optical Power(Sensitiv	-31 dBm	-34 dBm				
	Link Budget (dB)	7.5 dB	19 dB				
Technology							
Ethernet Standards		EEE 802.3 for 10Base-T EEE 802.3u for 100Base-T(X) and 100Base-FX EEE 802.3x for Flow control EEE 802.3at PoE specification					
MAC Table		2048 MAC addresses					
Processing	1	Store-and-Forward					
LED Indicators							
Power Indicator		Green : Power LED x 2					
Fault Indicator		Amber : Indicate PWR1 or PWR2 failure					
		Green for port Link/Act. Green for PoE power injected.					
100Base-FX Fiber	Port Indicator	Green for port Link/Act.					
Fault contact							
Relay		Relay output to carry capacity of 1A at 24VDC					
Power							
Redundant Input F	Power	Dual DC inputs. 24~36VDC on 6-pin terminal block.					
Power Consumptio	on (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 Protection		Present					
Reverse Polarity P	rotection	NOT Present					
Physical Charao	cteristics						
Enclosure		P-30					
Dimensions (W x 🛛) x H)	41 (W) x 144.3 (H) x 94.9 (D) mm (1.61 x 5.68 x 3.74 inch)					
Weight (g)	5	530 g					
Environmental							
Storage Temperatu	re	-40 to 85°C (-40 to 185°F)					
Operating Temperature		-40 to 70°C (-40 to 158°F)					
Operating Humidit	y .	5% to 95% Non-condensing					
Regulatory App	provals						
EMI	FCC Part 15, CISPR (EN55022) class A						
EMS		EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11					
Shock		IEC60068-2-27					
Free Fall		EC60068-2-32					
Vibration		EC60068-2-6					
Safety		N60950-1					
Warranty		5 years					

Ordering Information								
IPS-1 AABCC-DD-EE -24V								
Code Definition	n	10/100Base-T(X) P.S.E. Port Number	Addi	tional Port Number	Additional Port Type	Fiber Optical M	ode	Fiber Optical Connector
Option		- 04: 4 ports	- 2:	: 2 ports	- FA: 100 Base-FX	- MM: Multi-mode - SS: Single-mode		- SC: SC connector
		Model Name		Description				
Available Model	IPS-	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 • Quick 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 					