IPS-1042FX-24V Series



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Media Converte ndustrial

> 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

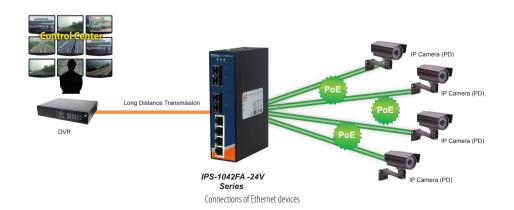


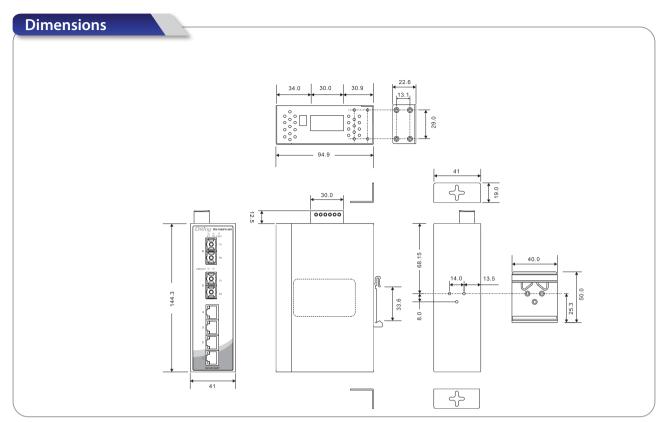
Introduction

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.





(Unit=mm)

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	#6 RD- with PoE Power input -					

Specifications

0	Ring Switch Model	IIPS-1042FX-MM-SC-24V	IPS-1042FX-SS-SC-24V			
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			

Industrial Ethernet Switch

O	Ring Switch Model	IPS-1042FA-MM-SC	IPS-1042FA-SS-SC	Eth	
	Max. Output Optical Power (dBm	-14 dBm	-8 dBm	Industrial Ethernet :	
	Min. Output Optical Power (dBm)	-23.5 dBm	-15 dBm	ial et Sv	
Fiber Ports Specifications	Max. Input Optical Power (Saturation)	0 dBm	0 dBm	Industrial Ethernet Switch	
openneations	Min. Input Optical Power(Sensitiv	vity) -31 dBm	-34 dBm		
	Link Budget (dB)	7.5 dB	19 dB		
Technology				ndu: Medi	
Ethernet Standards	;	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-T(X) and 100Base-FX IEEE 802.3x for Flow control IEEE 802.3at PoE specification		Industrial Media Converter	
MAC Table		2048 MAC addresses			
Processing		Store-and-Forward		Indu Dev	
LED Indicators				Industrial Device Se	
Power Indicator		Green : Power LED x 2		Industrial Device Servei	
Fault Indicator		Amber : Indicate PWR1 or PWR2 failure		-	
10/100Base-T(X) R.		Green for port Link/Act. Green for PoE power injected.		> =	
100Base-FX Fiber P	Port Indicator	Green for port Link/Act.		ndus	
Fault contact				Industrial W Access Point	
Relay		Relay output to carry capacity of 1A at 24VDC		Industrial Wireless Access Point	
Power				ess	
Redundant Input Po	ower	Dual DC inputs. 24~36VDC on 6-pin terminal block.			
Power Consumption	n (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)	Industrial Cellular VPN Router	
Overload Current Pr	rotection	Present		boute	
Reverse Polarity Pro	otection	NOT Present		Cellu	
Physical Charac	teristics			lar	
Enclosure		IP-30		_	
Dimensions (W x D	x H)	41 (W) x 144.3 (H) x 94.9 (D) mm (1.61 x 5.68 x 3.74 inch)		Indu M2I	
Weight (g)	5	30 g		Industrial M2M Gateway	
Environmental				al	
Storage Temperatur	re	-40 to 85°C (-40 to 185°F)		Ŋ	
Operating Temperat	ture	-40 to 70°C (-40 to 158°F)		_	
Operating Humidity	1	5% to 95% Non-condensing			
Regulatory App	rovals			Ace	
EMI		FCC Part 15, CISPR (EN55022) class A		cesso	
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		EC60068-2-27			
Free Fall		EC60068-2-32		Net	
Vibration		EC60068-2-6		Network Management Softwa e	
Safety		EN60950-1		men	
Warranty		5 years		t So	
				twae	

Ordering Information							
IPS-		D-E	E -24V]	
Code Definitio	on 10/100Base-T(X) P.S.E. Port Number	Add	itional 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	- 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 • 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 					

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ORing:

IPS-1042-FX-MM-SC-24V IPS-1042-FX-SS-SC-24V