IPS-1042FA Series



▶ Industrial 6-port slim type unmanaged PoE Ethernet switch with 4x10/100Base-T(X) P.S.E. and 2x100Base-FX

Features

- IPS-1042FA 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















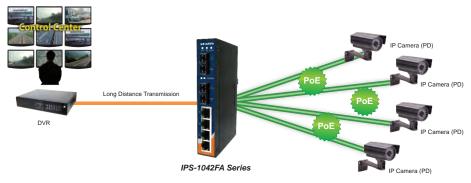


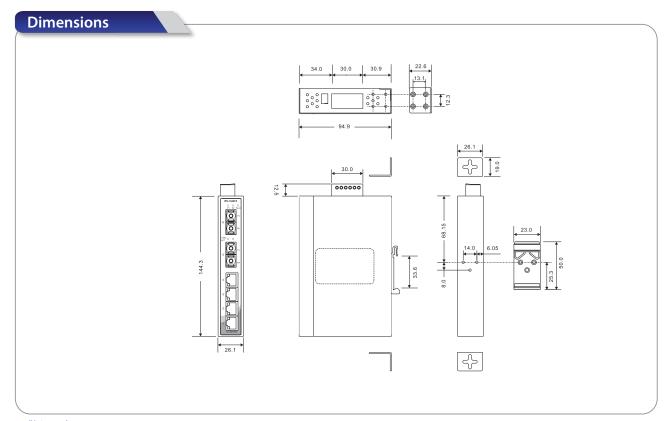
Introduction

IPS-1042FA series are unmanaged PoE Ethernet switches with 4 x 10/100Base-T(X) P.S.E. and 2x100Base-FX ports. IPS-1042FA 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-1042FA 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-1042FA 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-1042FA 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	RD- with PoE Power input -	

Specifications

ORing Switch Model		IPS-1042FA-MM-SC	IPS-1042FA-SS-SC
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	
Max. Output Optical Power (dB		-14 dBm	-8 dBm	
Fiber Ports Specifications	Min. Output Optical Power (dBm)	-23.5 dBm	-15 dBm	
	Max. Input Optical Power (Saturation)	0 dBm	0 dBm	
	Min. Input Optical Power(Sensitiv	-31 dBm	-34 dBm	
Link Budget (dB)		7.5 dB	19 dB	
Technology				
Ethernet Standards IEEE 8		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		
MAC Table 2048 M		2048 MAC addresses		
Processing Store-a		Store-and-Forward		
LED Indicators				
Power Indicator		Green : Power LED x 2		
Fault Indicator Amber		Amber : Indicate PWR1 or PWR2 failure		
10/100Base-T(X) R.	J45 Port Indicator	Green for port Link/Act. Green for PoE power injected.		
100Base-FX Fiber P	OBase-FX Fiber Port Indicator Green for port Link/Act.			
Fault contact				
Relay Relay output to carry capacity of 1A at 24VDC				
Power				
Redundant Input Po	ower	Dual DC inputs. 50~57VDC on 6-pin terminal block.		
Power Consumption (Typ.)		6.78 Watts (power consumption of P.S.E. is not included)	5.6 Watts (power consumption of P.S.E. is not included)	
Overload Current Pr	rotection	Present		
Reverse Polarity Pro	otection	NOT Present		
Physical Charact	teristics			
Enclosure		IP-30		
Dimensions (W x D x H) 26.1(V		5.1(W) x 94.9(D) x 144.3(H) mm (1.03 x 3.74 x 5.68 inch.)		
Weight (g)	3	95 g		
Environmental				
Storage Temperatur	e	-40 to 85°C (-40 to 185°F)		
Departing Temperature -40 to 70°C (-40 to 158°F)				
Operating Humidity		5% to 95% Non-condensing		
Regulatory App	rovals			
EMI	F	FCC Part 15, CISPR (EN55022) class A		
EMS		l61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, l61000-4-11		
Shock		EC60068-2-27		

IEC60068-2-32

IEC60068-2-6

EN60950-1

5 years

Free Fall

Vibration

Warranty

Safety

Ordering Information

IPS-1 AABCC-DD-EE

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	- SC: SC connector

	Model Name	Description
Available Model	IPS-1042FA-MM-SC	Industrial 6-port slim type unmanaged PoE Ethernet switch with 4x10/100Base-T(X) P.S.E. and 2x100Base-FX, multimode, 2Km/1310nm, SC connector
	IPS-1042FA-SS-SC	Industrial 6-port slim type unmanaged PoE Ethernet switch with 4x10/100Base-T(X) P.S.E. and 2x100Base-FX, single-mode, 30Km/1310nm, SC connector
Packing List • IPS-1042FA • DIN-Rail Kit • Wall-mount Kit • Quick Installation Guide		Optional Accessories (Can be purchased separately) • DR-75-48: 75 Watts@48VDC DIN-Rail power supply • DR-120-48: 120 Watts@48VDC DIN-Rail power supply • SDR-240-48: 240 Watts@48VDC DIN-Rail power supply • SDR-480-48: 480 Watts@48VDC DIN-Rail power supply