

# ISF2016D Series Ring-type Industrial Ethernet Switch

## Key Features:



- ☑ iRing for network redundancy.
- ☑ Support VLAN configuration
- ☑ IP40 protection class, fully enclosed metal cabinet
- ☑ Exceeds Industrial class III specifications
- ☑ Plug and play
- ☑ Wide operating temperature : -40~+85 °C
- ☑ Wide voltage range design, 2×24VDC (12~48VDC)
- ☑ Support relay alarm output
- ☑ DIN- Rail or wall mounting options

## Product Overview

ISF2016D series products are 16-port DIN-Rail Unmanaged Industrial Ethernet Switch designed for applications in electric power, transportation, and industrial control and other severe industrial environment. It integrates high-standard wide-range temperature and voltage design, enterprise-class forwarding performance, strong cabinet, protected industrial circuit and other industrial features, is capable of plug and play, and can satisfy reliability requirement under harsh industrial environment.

## Product Features

### ➤ Proven dependable industrial quality

- ☑ Fault-free and reliable operation in applications such as: electric power stations, transportation, industrial control environments, and SCADA systems.
- ☑ Excellent electromagnetic/radiation/electrostatic protection capacity and zero packet loss under intensive electromagnetic interference
- ☑ Excellent EMC/EMI and anti-radiation performance
- ☑ Real industrial-class design, with working temperatures at -40~85 °C
- ☑ Redundant power input and industrial-class surge protections
- ☑ Tough metal cabinet with corrosion-proof coating
- ☑ IP40 seal protection: dust proof, stain proof and debris proof

## ➤ Simple and easy to use

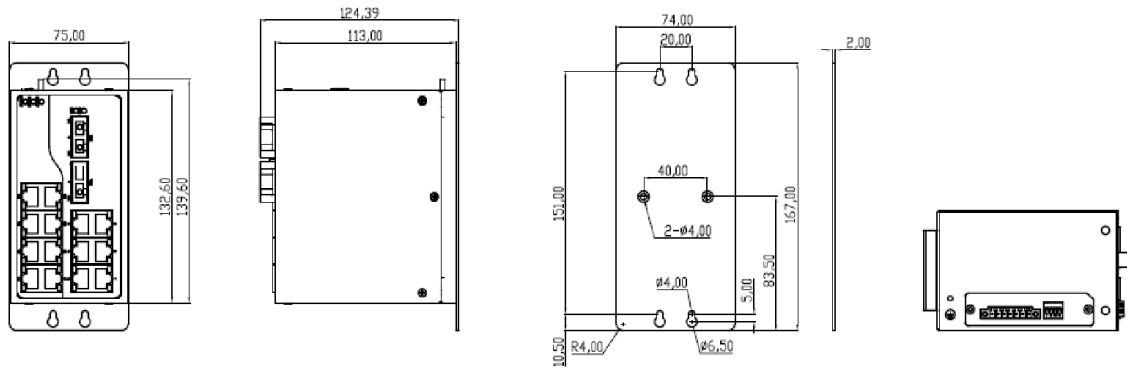
- ☑ Plug-and-play functionality for rapid deployment
- ☑ Linear data forwarding to ensure real time performance
- ☑ Compatible with industrial DIN-rails or available with an optional wall-mounting kit Supports IEEE 802.3x flow control and backpressure type flow controls to guarantee data integrity.
- ☑ Latency under 3μs, satisfying the real time performance requirements of a production environment.
- ☑ Support iRing Ethernet ring, with ring network failover time <30ms@100; automatic ring formation, no ring network configuration required
- ☑ Support VLAN function

## Product Specification

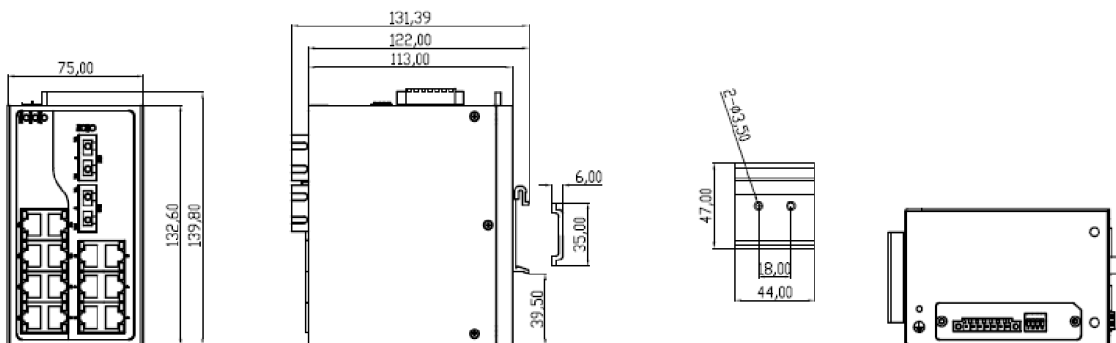
Item		ISF2016D
Interface	RJ45 port	10/100Base-T(X) auto-sensing RJ45 port, full dual/half dual and MDI/MDI-X self adaptive
	FX optical port	100Base-FX port (SC/ST/FC port)
	LED indication lamp	PWR1,PWR2,STAT,FAULT,FX (optical port) )
Mechanical structure	Housing	IP40 protection class, fully enclosed and seamless metal cabinet, PCB protection coating available
	Dimensions (WxHxD)	75mm ×132.6mm ×113mm
	Weight	0.9 kg
	Heat dissipation mode	Fanless heat dissipation
	Installation mode	DIN rail and wall mounting (kit optional)
	MTBF	35 years
Power source	Input voltage	24VDC(12~24VDC), support redundant input
	Interface terminal	7-pin pluggable screw connection terminal
	Overload protection	Available
	Reverse polarity protection	Available
	Power consumption	<7.2w
Working environment	Working temperature	-40 ~ +85 °C
	Storage temperature	-40 ~ +85 °C

Item		ISF2016D
	Relative humidity	5%~95% (no condensing)
Switching performance	Forwarding inherent time delay	<10us
	Backplane bandwidth	3.2Gbps
	MAC address table	8k
	Data package buffer	1Mbit
Function features	Ethernet standard	IEEE 802.3 for 10Base-T
		IEEE 802.3u for 100Base-T(X)and 100Base-FX
		IEEE 802.3x for flow control
	Port flow control	Support IEEE 802.3 x flow control and backpressure type flow control, capable of enabling/disabling flow control via dip switch
	Relay alarm output	Rated control capacity: 2A@30V DC
		Maximum allowable power: 60W
		Maximum allowable voltage: 220V DC
		Maximum allowable current: 2A DC
	Dip switch	With dip switch, capable of enabling/disabling broadcast storm control and port flow control and with relay alarm function
Industrial standard	Electromagnetic compatibility	IEC 61000-4-2(Electrostatic discharge) level 3
		IEC 61000-4-3(Radiated, radio-frequency, electromagnetic field) level 3
		IEC 61000-4-4(Electrical fast transient/burs) level 3
		IEC 61000-4-5(surge) level 3
		IEC 61000-4-6(Immunity to conducted disturbances, induced by radio-frequency fields) level 3
		IEC 61000-4-8(Power frequency magnetic field) level 4
	Impact	IEC60068-2-27
	Free fall	IEC60068-2-32
	Vibration	IEC60068-2-6
Warranty period	Warranty period	5 years

## Dimensions



### Wall Mount



### DIN-Rail Mount

## Ordering Information

Product Model	Port			
	10/100 Base-TX	100BaseFX optical port(SC/ST/FC)		
		Multimode dual fiber	Single mode dual fiber	Single mode single fiber
ISF2016D-14T-2M-24	14	2	-	-
ISF2016D-14T-2S-24	14	-	2	-
ISF2016D-14T-2B-24	14	-	-	2

### Note:

- ☒ Multimode dual fiber supports 2km; single mode dual fiber support 20/40/80/120KM; singlemode single fiber supports 0.5/20/40/60/80/120KM
- ☒ Power supply default is DC24V low-voltage

### InHand Networks

Connecting devices, enabling services

