

ISF3018D Series Ring Network 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

ISF3018D series products are 18-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

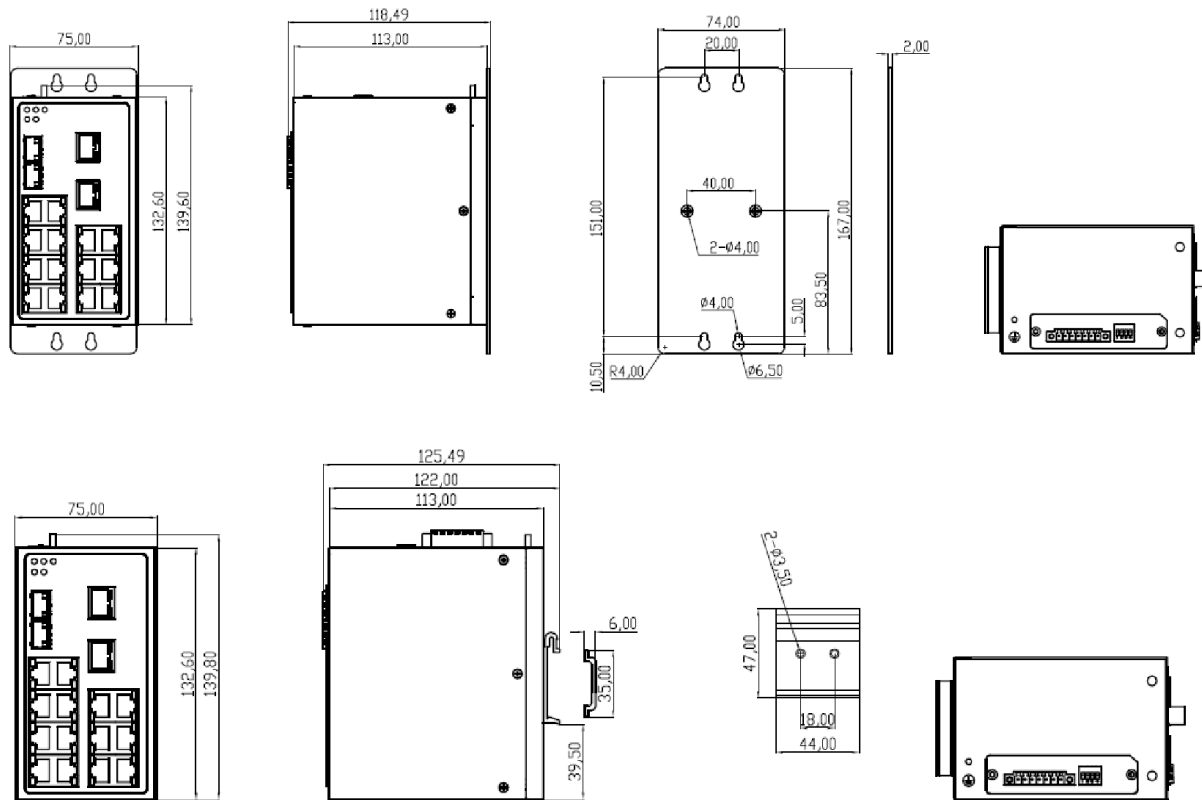
- ☑ Plug-and-play functionality for rapid deployment
- ☑ Linear data forwarding to ensure real time performance
- ☑ Compatible with industrial DIN-rails or available with an optional wall-mounting kit Supports IEEE 802.3x flow control and backpressure type flow controls to guarantee data integrity.
- ☑ 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		ISF3018D
Interface	RJ45 port	10/100Base-T(X) self-adaptive RJ45 port
	FX optical port	100Base-FX port (SC/ST/FC port)
	GX optical port	1000Base SFP slot
	LED indication	PWR1, PWR2, STAT, FAULT, FX , GX
Mechanical structure	Housing	IP40 protection class, fully enclosed and seamless type metal cabinet, PCB protection coating available
	Dimensions (WxHxD)	75mm ×132.6mm ×113mm
	Weight	0.9 kg
	Heat dissipation	Fanless heat dissipation
	Installation	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	<8.7w
Working environment	Working temperature	-40 ~ +85 °C
	Storage temperature	-40 ~ +85 °C

Item		ISF3018D
	Relative humidity	5%~95% (free of condensing)
Switching performance	Forwarding inherent time delay	<10us
	Backplane bandwidth	7.2Gbps
	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 802.3ab, for 1000BaseT(X)
		IEEE 802.3z, for 1000BaseX
		IEEE 802.3x for flow control
	Port flow control	Support IEEE 802.3x 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
Industrial standard	Electromagnetic compatibility	iRing for network redundancy
		VLAN function
		Support VLAN function (made to order)
		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
Industrial standard	Impact	IEC60068-2-27
	Free fall	IEC60068-2-32
	Vibration	IEC60068-2-6
Warranty	Warranty	5 years

Dimensions



Wall Mount

DIN-Rail Mount

Ordering Information

1. Product Ordering Information

Product Model	Port				
	10/100 Base-TX	100Base-FX(SC/ST/FC)			SFP slot
		Multimode dual fiber	Single mode dual fiber	Single mode single fiber	
ISF3018D-16T-2GSFP-24	16	-	-	-	2
ISF3018D-14T-2GSFP-2M-24	14	2	-	-	2
ISF3018D-14T-2GSFP-2S-24	14	-	2	-	2
ISF3018D-14T-2GSFP-2B-24	14	-	-	2	2

Note:

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

2. SFP optical module ordering information

Name	Description
SFP-GT-RJ45	Electrical module-SFP-GT-(RJ45)
SFP-GX-SXM8-LC	optical module-SFP-GX-multimode module-(850nm,0.5km,LC)

Name	Description
SFP-GX-SXM3-LC	optical module-SFP-GX-multimode module-(1310nm,0.5km,LC)
SFP-GX-LXS3-LC	optical module-SFP-GX-single mode module-(1310nm,10km,LC)
SFP-GX-LXS5-LC	optical module-SFP-GX-single mode module-(1550nm,10km,LC)
SFP-GX-LH40S3-LC	optical module-SFP-GX-single mode duplex fiber-(1310nm,40km,LC)
SFP-GX-LH40S5-LC	optical module-SFP-GX-single mode duplex fiber-(1550nm,40km,LC)
SFP-GX-LH80S5-LC	optical module-SFP-GX-single mode duplex fiber-(1550nm,80km,LC)
SFP-GX-LH100S5-LC	optical module-SFP-GX-single mode duplex fiber-(1550nm,100km,LC)
SFP-GX-SXB35-LC	optical module-SFP-GX-single mode single fiber-(TX1310/RX1550nm,0.5km,LC)
SFP-GX-SXB53-LC	optical module-SFP-GX-single mode single fiber-(TX1550/RX1310nm,0.5km,LC)
SFP-GX-LXB35-LC	optical module-SFP-GX-single mode single fiber-(TX1310/RX1550nm,10km,LC)
SFP-GX-LXB53-LC	optical module-SFP-GX-single mode single fiber-(TX1550/RX1310nm,10km,LC)
SFP-GX-LH40B35-LC	optical module-SFP-GX-single mode single fiber-(TX1310/RX1550nm,40km,LC)
SFP-GX-LH40B53-LC	optical module-SFP-GX-single mode single fiber-(TX1550/RX1310nm,40km,LC)
SFP-GX-LH80B45-LC	optical module-SFP-GX-single mode single fiber-(TX1490/RX1510nm,80km,LC)
SFP-GX-LH80B54-LC	optical module-SFP-GX-single mode single fiber-(TX1550/RX1490nm,80km,LC)
SFP-GX-LH100B45-LC	optical module-SFP-GX-single mode single fiber-(TX1490/RX1550nm,100km,LC)
SFP-GX-LH100B54-LC	optical module-SFP-GX-single mode single fiber-(TX1550/RX1490nm,100km,LC)

InHand Networks

Connecting devices, enabling services

