

ISE2016D Series Unmanaged Industrial Ethernet Switch



Key Features:

- ☑ IP40 protection class, fully enclosed type metal cabinet
- ☑ Passed industrial class III EMC test
- \square Wide voltage range design, 2×24VDC (12~48VDC)
- ☑ Provided with dip switch, capable of enabling/disabling broadcast storm control and port flow control and with relay alarm function
- ☑ Support relay alarm output
- ☑ DIN- rail or wall mounting optional

Product Overview

ISE2016D series products are of 16 ports DIN-rail Unmanaged Industrial Ethernet Switch, especially designed for applications in the field of electric power, transportation, industrial control and in other severe industrial environment. It integrates high-standard wide-range temperature and voltage design, enterprise-class high-speed 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

- Strong and reliable industrial quality
- Fault-free and reliable operation under electric power station, transportation and industrial control environment
- Excellent electromagnetic/radiation/electrostatic protection capacity and zero packet loss under intensive electromagnetic interference



- ☑ Excellent EMC/EMI and anti-radiation performance
- \square Real industrial-class design, with working temperature at -40~85 °C
- ☑ Redundant power input and industrial-class surge protection
- ☑ Strong metal cabinet with corrosion-proof coating
- ☑ Provided with IP40 seal protection, and dust proof, stain proof and debris proof

○ Simple and easy to use

- Provided with plug-and-play function for rapid deployment
- Provided with high-speed data forwarding to ensure real time performance
 - ☑ Support industrial DIN-rail installation mode, optional wall-mounting kit available, satisfying requirement for deployment at different conditions and environment
 - ☑ Support enabling/disabling of broadcast storm protection via hardware dip switch, flow control and port connection interruption alarm; simple and easy to use.
 - ☑ Provided with 1 route of alarm output interface to facilitate identification of potential trouble in a timely manner and to ensure sustainability of business data
 - ☑ Support IEEE 802.3 x flow control and backpressure type flow control to guarantee data integrity
 - ☑ Forwarding inherent time delay <4 μs, satisfying real time performance requirement of industrial production data

Product Specification

Item		ISE2016D	
Interface	RJ45 port	10/100Base-T(X) self-adaptive RJ45 port, support full	
		duplex/half duplex and MDI/MDI-X self adaptive	
	FX fiber port	100Base-FX port (SC/ST/FC port)	
	LED indication	PWR1,PWR2,STAT,FAULT, FX (optical port))	
Mechanical structure	Housing	IP40 protection class, fully enclosed and seamless type	
		metal cabinet, PCB protection coating available	
	Dimensions (W	75mm ×132.6mm ×113mm	
	\times H \times D)	7511111 7 152.011111 7 11511111	
	Weight	0.9 kg	
	Heat dissipation	Fanless heat dissipation	
	mode	Tamess near dissipation	
	Installation mode	DIN- rail and wall mounting (kit optional)	
	MTBF	35 years	

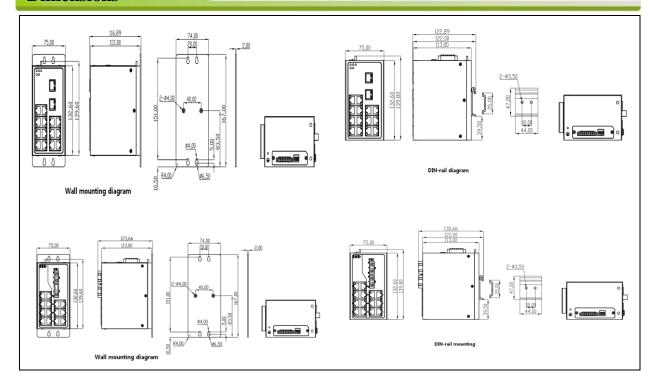


Item		ISE2016D	
	Input voltage	24VDC (12~48VDC), support redundant input	
Power	Interface	7-pin pluggable screw connection terminal	
	terminal	, has bridging out a common community	
	Overload	Available	
source	protection		
	Reverse polarity	Available	
	protection		
	Power	<7.2W	
	consumption Working		
	temperature	-40 ~ +85 ℃	
Working	Storage		
environment	temperature	-40 ~ +85 ℃	
	Relative		
	humidity	5%~95% (no condensation)	
	Forwarding		
	inherent time	<10 μs	
	delay		
Switching	Backplane	3.2Gbps	
performance	bandwidth	3.2Gops	
performance	MAC address	8k	
	table		
	Data package buffer	1Mbit	
	buller	IEEE 902.2 for 10Dage T	
	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	Supporting IEEE 802.3 x flow control and backpressure	
		type flow control, capable of enabling/disabling flow control via dip switch	
Function		Rated control capacity: 2A@30V DC	
features	Relay alarm	Maximum allowable power: 60W	
	output	Maximum allowable voltage: 220V DC	
	output	Maximum allowable current: 2A DC	
	Dip switch	Supporting enabling/disabling of broadcast storm	
		protection via hardware dip switch, flow control and port	
		connection interruption alarm;	
T 1	Electromagnetic compatibility	IEC 61000-4-2 (Electrostatic discharge)	
		class 3	
Industrial		IEC 61000-4-3 (Radiated, radio-frequency,	
standard		electromagnetic field)	
		class 3	



Item		ISE2016D	
		IEC 61000-4-4 (Electrical fast transient/burs)	
		class 3	
		IEC 61000-4-5 (surge) class 3	
		IEC 61000-4-6 (Immunity to conducted disturbances,	
		induced by radio-frequency fields) class 3	
		IEC 61000-4-8 (Power frequency magnetic field)	
		class 4	
	Impact	IEC60068-2-27	
	Freefall	IEC60068-2-32	
	Vibration	IEC60068-2-6	
Warranty period	Warranty period	5 years	

Dimensions





Ordering Information

	Port				
Product Model	10/100	100BaseFX optical port (SC/ST/FC)			
Product Model	Base-T(X	Multimode double	Single mode dual	Single mode single	
)	fiber	fiber	fiber	
ISE2016D-16T-24	16	-	-	-	
ISE2016D-14T-2M-	1.4	2			
24	14	2	-	-	
ISE2016D-14T-2S-2	14	-	2	-	
4					
ISE2016D-14T-2B-2	14	-	-	2	
4					

Note:

- ☑ Multimode fiber supports 0.5km; 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



Beijing InHand Networks Technology Co., Ltd.

Beijing InHand Networks Technology Co., Ltd focuses its energy upon development of equipment network (M2M) technology and products, for the purpose of providing safe, reliable, intelligent and advanced network equipment for customers in the fields of electric power, industrial control, finance, medical and other industries. Industrial-class products and equipment monitoring software platforms developed by InHand have been used by a number of well-known big customers, and have stood the test of large-scale field applications for a long time.

InHand hopes to contribute her efforts to the transition process of Chinese manufacturing industry to high value-added products through constant innovation of equipment network solutions.

Many well-known commercial organizations at home and abroad have confirmed development and achievement of InHand. InHand has been awarded the honor of Top-50 High-tech Development Enterprise consecutively by Deloitte (China) since 2007 and was awarded Top-200 Innovative Enterprise in Asia and Top-100 Innovative Enterprise in Asia in 2007 and 2008 respectively by the famous business media "Red Herring" of USA.







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