Industrial 5-Port Unmanaged Fast Ethernet Switch with Optical Fiber

EH2305-1Fm/1Fs

Technology

- 10/100BaseT(X) (RJ45), 100BaseFX (SC/ST connector)
- Broadcast storm protection
- Support IEEE 802.3/ 802.3u/ 802.3x
- 10/100M, Full/Half-Duplex, MDI/MDI-X auto-detection
- Local area transmit distance of 2 Km with Multi-mode Fiber connections
- Long-haul transmit distance of 15 Km with Signal-mode Fiber connections

Reliability

- Redundant dual DC power inputs
- Operating temperature ranges from -10~70°C
- Rugged high-strength housing
- DIN-Rail or wall mounting ability

The EH2305-1Fm/1Fs has a metal housing with 4 RJ-45 ports and one optical ST/SC port, it's designed to work in the industrial environment, such as in hazardous locations that comply with CE, FCC, UL and RoHS standards.

The EH2305 series protects itself from receiving too many broadcast packets. During normal use, broadcast packets will be forwarded to all ports except the source port. However, it will discard broadcast or multicast packets if the number of those packets exceeds a threshold in a preset period of time. When the preset period expires (about 800ms), it will then resume receiving broadcast or multicast packets until the threshold is reached again.

The EH2305 series provides two redundant power inputs that can be connected simultaneously to wide-range DC power sources. If one of the power inputs failure, the other live source acts as a backup to provide EH2305 series the power it needs automatically.

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General Specifications:

General Specifications			
Technology			
Standards	IEEE802.3, 802.3u, 802.3x		
Processing Type	Store and Forward		
Flow Control	IEEE802.3x flow control, backpressure flow control		
Interface			
RJ45 Ports	10/100BaseT(X) auto negotiation speed		
	Full/Half-duplex mode, and auto MDI/MDI-X connection		
Fiber Ports	ST connector(Multi-mode) for 100 Base FX port		
	SC connector(Single-mode) for 100 Base FX port		
LED Indicators	Power, 10/100M, Fault, Data, Link		
Power Management			
Input Voltage	9~30 VDC, Dual inputs		
Consumption	4.5 Watts Max		
Connector	Removable 3-pin Terminal Block for power input		
Reverse Polarity Protection	Present		
Physical Characteristics			
Housing	IP50 protection, metal housing		
Dimension	45.2mm x 90mm x 78mm (W x H x D)		
Weight	255g		
Environmental Limits			
Operating Temperature	-10°C~70°C (14°F~158°F)		
Storage Temperature	-40°C~85°C (-40°F~185°F)		
Ambient Relative Humidity	5%~95% non-condensing		
Regulatory Approvals			
UL(Safety)	UL60950-1,CSA C22.2 No.60950-1-03		
FCC(EMI)	FCC 47 CFR Part15, Subpart B, Class A		
	ICES-003, Class A		
	ANSI C63.4-2003		
CE(EMI)	EN 55022:1988+A1:2000+A2:2003, Class A		
	EN 61000-3-2:2000, Class A		
	EN 61000-3-3: 1995+A1:2001		
CE(EMS)	EN 55024:1998+A1:2001+A2:2003		

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	IEC 61000-4-2:2001			
	IEC 61000-4-3:2002+A1:2002			
	IEC 61000-4-4:2004			
	IEC 61000-4-5:2001			
	IEC 61000-4-6:2003+A1:2004			
	IEC 61000-4-8:2001			
	IEC 61000-4-11:2004			
Shock	IEC 60068-2-27			
Free Fall	IEC 60068-2-32			
Vibration	IEC 60068-2-6			
RoHS	Lead(Pb) Free			
MTBF	471160 hrs(25℃) / 53.79 years(25℃)			
Warranty	5 years			
Optional Accessories				
AD17-24C (US): AC100V~240V/DC24V for terminal block, US adapter				
AD17-24D (EU): AC100V~240V/DC24V for terminal block, EU adapter				
US315-12(US/EU) : AC100~240V/DC12V ; 5.08mm pitch terminal block				

Optical Fiber Specifications:

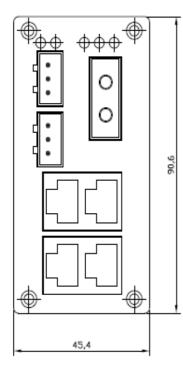
Optical Fiber Specifications					
Speed	Fast Ethernet 100BaseFX				
Mode	Multi-mode	Single-mode			
Connectors	ST	SC			
Typical Distance	2Km(Max)	15Km(Max)			
Cable Size Core/Cladding	62.5/125 um	9/125 um			
Wavelength	1270(Min)~1360(Max) nm	1263(Min)~1360(Max) nm			
Max. TX Power	-14 dBm	-8 dBm			
Min. TX Power	-19 dBm	-15 dBm			
BY Soncitivity	-34 dBm(Typical)				
RX Sensitivity	-32 dBm(Max)	-32 dBm(Max)			
Link Budget					
Saturation / Overload					
Typical Budget					

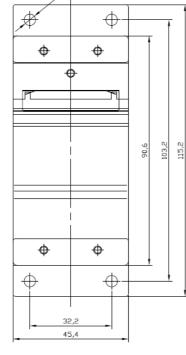
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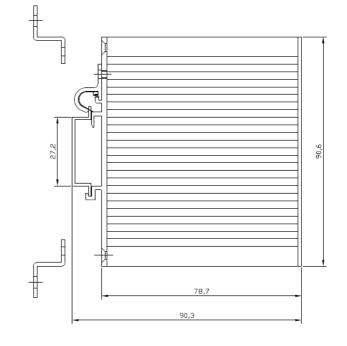


EH2305-1Fm/1Fs series mechanical dimensions(unit=mm)

0 m







(Front-panel front view)

(Backboard rear view)



(Housing side view)

Ordering Information:

Ordering Information						
Model Name	Port Interface					
Extended Temperature	10/100BaseT(X)	100BaseFX				
Extended Temperature (-10°C~70°C)		Multi Mode	Single Mode			
		ST Connector	SC Connector			
EH2305-1Fm	4	2				
EH2305-1Fs	4		2			

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