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# Product Information

## HEMC2 Series

### Industrial 10/100BaseT(X) to 100BaseFX Media Converters



## Features

- ❖ 10/100BaseT(X) auto-negotiation, DIP switch setting
- ❖ Link Fault Pass-through (LFP)
- ❖ -40 to +75°C operating temperature range (W models)
- ❖ Redundant dual power input
- ❖ Multi-mode or single-mode, with SC or ST fiber connector
- ❖ 100% burn in testing

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## Introduction

The HEMC2 industrial Ethernet media converters are designed to provide reliable and robust 10/100BaseT(X) to 100BaseFX media conversion in harsh industrial environment. The HEMC2's intensified design guarantees the uninterrupted operations of your industrial automation allocations. HEMC2 series of media converters are equipped with exceptional DIP switch features where LFP, store-and-forward, auto-negotiation, etc, are all available for selection (Please refer to the below table) . All HEMC2 models are subject to a 100% burn-in test, and are available for models that support a standard operating temperature range from -10°C to 60°C , and an extended operating temperature range from -40°C to +75°C.

## Specifications

Technology		
Standard :	IEEE802.3, 802.3u, 802.3x	
Processing Type :	Store and forward	
Broadcast Storm :	Automatic Broadcast Storm Control	
Flow Control :	Full Duplex Flow Control, Half Duplex Back Pressure Control	
Protocols :	CSMA/CD (Carrier Sense Multiple Access/Collision Direct)	
Switch Properties		
MAC Table Size :	1K	
Interface		
RJ45 Port :	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	
Optical Ports :	100BaseFX ports (SC/ST/LC connector)	
LED Indicators :	Power, Port Status, 10/100M	
Power Requirements		
Input Voltage :	12~36VDC @ 3.5W MAX 10~24VAC @ 3.5VA MAX	
Input Connection :	Standard four terminal power input	
Physical Characteristics		
Case :	Slim Metal Case, IP30 Design	
Dimensions :	25×102.5×75mm	
Installation :	DIN Rail or Panel Mounting	
Optical Fiber		
Mode	Multi-mode	Single Mode
Transmission Distance	2km	20km
Centre Wavelength	1310nm	1310nm
Cable Size	62.5/125um	9/125um
TX Power(dBm)	-20~-10dBm	-15~-8dBm
RX Power(dBm)	< -32dBm	< -32dBm
Transmission Rate	100Mbps	100Mbps

Toggle Switch			
Series No.	Function	On	Off
1	LEP Enabled	Enable LFP	Close LFP
2	Select Forward-mode	Forward Directly	Store and Forward
3	Auto-negotiation Enabled	Close	Enable
4	Select RJ45 interface rate	10Mbps	100Mbps
5	RJ45 full duplex mode	Half duplex	Full duplex
6	Optical duplex mode	Half duplex	Full duplex

Environment Limits	
Operating Temp. :	Standard Models: -10 to 60°C Wide Temp. Models: -40 to 75°C
Storage Temp. :	-40 to 85°C
Ambient Relative Humidity :	5 to 95%(Non-condensing)

Standards and Certifications	
EMI :	FCC Part15, CISPR(EN55022) Class A EN61000-4-2(ESD) Level 3, EN61000-4-3(RS) Level 3, EN61000-4-4(EFT) Level 3, EN61000-4-5(Surge) Level 3, EN61000-4-6(CS) Level 3, EN61000-6-2
EMS :	
Shock :	IEC 60068-2-27
Freefall :	IEC 60068-2-32
Vibration :	IEC 60068-2-6
Warranty	
Warranty Period :	3 years

## Ordering Information

### HEMC2

HEMC2-SC-VL	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connector, 2KM, With Dip Switch Configurations, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SC-VLW	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connector, 2KM, With Dip Switch Configurations, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SSC-VL	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connector, 20KM, With Dip Switch Configurations, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SSC-VLW	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connector, 20KM, With Dip Switch Configurations, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC2-ST-VL	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with ST Connector, 2KM, With Dip Switch Configurations, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC2-ST-VLW	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with ST Connector, 2KM, With Dip Switch Configurations, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SST-VL	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with ST Connector, 20KM, With Dip Switch Configurations, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SST-VLW	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with ST Connector, 20KM, With Dip Switch Configurations, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC2-LC-VL	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with LC Connector, 2KM, With Dip Switch Configurations, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC2-LC-VLW	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with LC Connector, 2KM, With Dip Switch Configurations, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SLC-VL	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with LC Connector, 20KM, With Dip Switch Configurations, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SLC-VLW	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with LC Connector, 20KM, With Dip Switch Configurations, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SFC35-VL	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode-Single-Fiber Fiber Port with FC Connectors, 20KM, TX1310nm, RX1550nm, With Dip Switch Configurations, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SFC35-VLW	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode-Single-Fiber Fiber Port with FC Connectors, 20KM, TX1310nm, RX1550nm, With Dip Switch Configurations, Industrial Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SFC53-VL	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode-Single-Fiber Fiber Port with FC Connectors, 20KM, TX1550nm, RX1310nm, With Dip Switch Configurations, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC2-SFC53-VLW	Ethernet Media Converters, 1 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode-Single-Fiber Fiber Port with FC Connectors, 20KM, TX1550nm, RX1310nm, With Dip Switch Configurations, Industrial Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC