

# 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



### 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 to -10dBm	-15 to -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°C to 60°C Wide Temp. Models: -40°C to 75°C
Storage Temp	-40°C to 85°C
Ambient Relative Humidity	5 to 95%(Non-condensing)

## Standards and Certifications

EMI	FCC Part15, CISPR(EN55022) Class A
EMS	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
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

## Warranty

Warranty Period	3 years
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## Ordering Information

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 STConnector, 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 STConnector, 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 STConnector, 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 STConnector, 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