

Product Information

HEMC3 Series

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



Features

- ❖ 10/100BaseT(X) auto-negotiation and auto-MDI/MDI-X
- ❖ Redundant dual power input
- ❖ Designed for hazardous locations (Class 1 Div. 2)
- ❖ Multi-mode or single-mode, with SC or ST fiber connector
- ❖ -40 to +75°C operating temperature range (W models)
- ❖ IP30 DIN Rail or Panel Mount



Henrich Electronics Corporation

Main Office

Tel: 860-487-9869

Fax: 860-487-9478

www.henrich-inc.com

Introduction

The HEMC3 industrial media converters provide industrial grade media conversion between 10/100BaseT(X) and 100BaseFX (SC/ST connectors). The HEMC3's reliable industrial design is excellent for keeping your industrial automation applications running continuously, and each HEMC3 converter comes with a relay output warning alarm to help prevent damage and loss. The HEMC3 media converters are designed for harsh industrial environments, such as in hazardous locations, and comply with FCC, and CE standards. The HEMC3 series is available for models that support an operating temperature from -10 to 60°C, and an extended operating temperature from -40 to +75°C. All HEMC3 series are subject to a 100% burn-in test.

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 :	29×89×85.6mm	
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

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
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

Ordering Information

HEMC3

HEMC3-SC-VL	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SC-VLW	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SSC-VL	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SSC-VLW	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC3-ST-VL	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with ST Connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC3-ST-VLW	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with ST Connectors, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SST-VL	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with ST Connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SST-VLW	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with ST Connectors, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SFC35-VL	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode-Single-Fiber Fiber Port with FC Connectors, 20KM, TX1310nm, RX1550nm, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SFC35-VLW	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode-Single-Fiber Fiber Port with FC Connectors, 20KM, TX1310nm, RX1550nm, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SFC53-VL	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode-Single-Fiber Fiber Port with FC Connectors, 20KM, TX1550nm, RX1310nm, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HEMC3-SFC53-VLW	Ethernet Media Converters, 2 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode-Single-Fiber Fiber Port with FC Connectors, 20KM, TX1550nm, RX1310nm, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC