

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 |
|-----------------|---------|

Ordering Information

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|-----------------|---|
| 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 |