# Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

## Contact us

# HEMC2G Series

## Industrial Gigabit Ethernet to Fiber Media Converter

**Product Information**

Henrich Electronics Corporation

Main Office

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## Features

- 10/100/1000BaseT(X) and 1000BaseSFP slot supported
- -40 to +75˚C operating temperature range (W models)
- Redundant dual power input
- Designed for hazardous locations
- IP30 DIN Rail or Panel Mount

# Introduction

The HEMC2G industrial Gigabit media converters are designed to provide reliable and robust 10/100/1000BaseT(X) to 1000BaseFx media conversion in harsh industrial environments. The HEMC2G's industrial design is excellent for keeping your industrial automation applications running continuously, and each HEMC2G converter comes with a relay output warning alarm to help prevent damage and loss. All HEMC2G models are subject to a 100% burn-in test, and are available in models that support a standard operating temperature range from -10 to 60°C, and an extended operating temperature range form -40 to +75°C.

# Specifications

| Technology | |
|---|---|
| Standard : | IEEE802.3, 802.3u, 802.3x, 802.3az, 802.3ab |
| 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 : | 10/100/1000BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection |
| Optical Ports : | 1000BaseFX ports (SC/ST or SFP connector) |
| LED Indicators : | Power, Port Status, 10/100/1000M |

| Power Requirements | |
|---|---|
| Input Voltage : | 12~36VDC @ 9W MAX <br> 10~24VAC @ 9VA MAX |
| Input Connection : | Standard four terminal power input |

| Physical Characteristics | |
|---|---|
| Case : | Slim Metal Case, IP30 Design |
| Dimensions : | 29×97.8×83.6mm |
| Installation : | DIN Rail or Panel Mounting |

| Optical Fiber | |
|---|---|
| Mode | Single Mode |
| Transmission Distance | 20km |
| Centre Wavelength | 1310nm |
| Cable Size | 9/125um |
| TX Power(dBm) | -8~-2dBm |
| RX Power(dBm) | < -24dBm |
| Transmission Rate | 1000Mbps |

| Environment Limits | |
|---|---|
| Operating Temp. : | Standard Models: -10 to 60˚C <br> 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

## HEMC2G

| | |
|---|---|
| HEMC2G-SC-VL | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Multi-Mode Fiber Port with SC Connector, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-SC-VLW | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Multi-Mode Fiber Port with SC Connector, 2KM, Industrial Wide Temperature-40°C to +75°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-SSC-VL | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Single-Mode Fiber Port with SC Connector, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-SSC-VLW | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Single-Mode Fiber Port with SC Connector, 20KM, Industrial Wide Temperature-40°C to +75°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-ST-VL | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Multi-Mode Fiber Port with ST Connector, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-ST-VLW | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Multi-Mode Fiber Port with ST Connector, 2KM, Industrial Wide Temperature-40°C to +75°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-SST-VL | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Single-Mode Fiber Port with ST Connector, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-SST-VLW | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Single-Mode Fiber Port with ST Connector, 20KM, Industrial Wide Temperature-40°C to +75°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-SFC35-VL | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit 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 |
| HEMC2G-SFC35-VLW | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit 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 |
| HEMC2G-SFC53-VL | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit 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 |
| HEMC2G-SFC53-VLW | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit 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 |
| HEMC2G-SFP-VL | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Fiber Port with SFP Slots, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HEMC2G-SFP-VLW | Ethernet Media Converters, 1 x Gigabit Copper Port, 1 x Gigabit Fiber Port with SFP Slots, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC |