HEMC2G Series

Industrial Gigabit Ethernet to Fiber Media Converter

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	10/100BaseT(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 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 to -2dBm
RX Power(dBm)	< -24dBm
Transmission Rate	1000Mbps
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

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