HEMC3GB-X/HEMC3GA-X Series

3-port Din-rail Unmanaged Ethernet Switches

Features:

- 2 × 10/100/1000BaseT(X) Ports and 1 x 1000Base-SX/LX Port
- Multi-mode or Single-mode, with SC or ST Fiber Connector
- -40°C to 75°C Operating Temperature Range Available
- DC 12-48V Power Supply with Reverse Polarity Protection
- IP30 Din-rail Mounting

Introduction:

The HEMC3GB-X/HEMC3GA-X series industrial media converters provide industrial grade media conversion between 10/100BaseT(X) and 100Base-SX/LX (SC/ST connectors). With the strengthened EMC grade, the HEMC3GB-X/HEMC3GA-X media converters are designed for harsh industrial environments while complying with FCC, and CE standards. Two operating temperature ranges are supported: -10°C to 60°C and -40°C to 75°C. SC and ST fiber connection types are supported in both multi-mode and single-mode formats for various applications. Reverse polarity protection is supported.

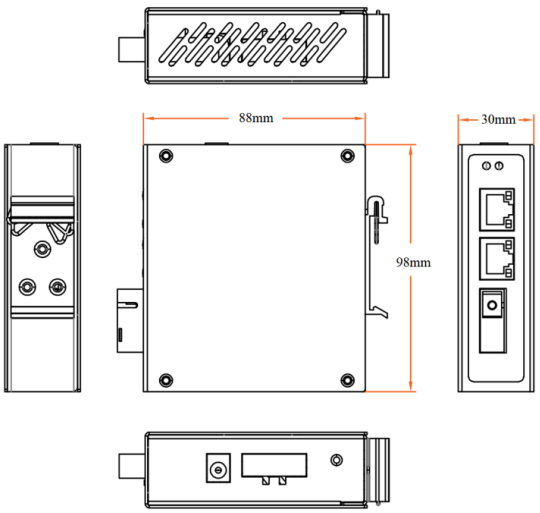
Specifications:

Ethernet Interface		
10/100/1000BaseT(X) Ports (RJ45 Connector)	2 Ports, Full/Half Duplex Mode; Auto MDI/MDI-X Adaptive; Auto Negotiation Speed	
1000Base-SX/LX Port	1 Port, SC/ST; Multi-mode / Single-mode	
Standards	IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x	
Power Connector	DC Socket or Phoenix Terminal, with Built-in Reverse Polarity Protection	
Optical Fiber		
Mode	Multi-mode	Single-mode
Transmission Distance	550m	20km
Center Wavelength	850nm	1310nm
TX Power (dBm)	-5 ~ -9dBm	-3 ~ -9dBm
RX Power (dBm)	⩾-17dBm	⩾-22dBm
Transmission Rate	1000Mbps	1000Mbps
Power Requirements		
Input Voltage	DC 12-48V	
Power Consumption	Standby < 4W, Full load < 6W	
Input Connection	Industrial Phoenix Terminal	
Reverse Polarity Protection	Supported	

HENRICH®
PHONE: (909) 939-2468
EMAIL: customer_service@henrich-inc.com
WEBSITE: www.henrich-inc.com

Physical Characteristics	
Case	Metal Enclosure, IP30 Design
Dimensions (Width × Height × Depth)	1.2" × 3.9" × 3.5" (30mm ×98 mm × 88 mm)
Installation	DIN-rail Mounting
Environment Limits	
Operating Temp	HEMC3GB-X Series: -10°C to +60°C (+14°F to +140°F) HEMC3GA-X Series: -40°C to +75°C (-40°F to +167°F)
Storage Temp	-40°C to +85°C (-40°F to +185°F)
Ambient Relative Humidity	5% to 90% (Non-condensing)
Standards and Certifications	
EMI	FCC Part15, CISPR(EN55022) Class A
EMS	Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz) IEC61000-6-2 (Common Industrial Standard) IEC61000-4-9 (Pulsed magnet field): 1000A/m IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m,1s-3s IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Warranty	
Warranty Period	5 Years

Dimension Drawing:



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Ordering Information

HEMC3GB-X-SC	Din-rail Unmanaged, 2 x 1000Mbps Copper Port, 1 x 1000Mbps Fiber Port , Multi-mode 550m, SC Interface, Industrial Temperature: -10°C to 60°C, Power Supply 12~48 VDC
HEMC3GB-X-ST	Din-rail Unmanaged, 2 x 1000Mbps T(X) Port, 1 x 1000MMbps Fiber Port , Multi-mode 550m, ST Interface, Industrial Temperature: -10°C to 60°C, Power Supply 12~48 VDC
HEMC3GB-X-SSC	Din-rail Unmanaged, 2 x 1000Mbps T(X) Port, 1 x 1000MMbps Fiber Port , Single-mode 20km, SC Interface, Industrial Temperature: -10°C to 60°C, Power Supply 12~48 VDC
HEMC3GB-X-SST	Din-rail Unmanaged, 2 x 1000Mbps T(X) Port, 1 x 1000MMbps Fiber Port , Single-mode 20km, ST Interface, Industrial Temperature: -10°C to 60°C, Power Supply 12~48 VDC
HEMC3GA-X-SC	Din-rail Unmanaged, 2 x 1000Mbps T(X) Port, 1 x 1000Mbps Fiber Port , Multi-mode 550m, SC Interface, Industrial Temperature: -40°C to 75°C, Power Supply 12~48 VDC
HEMC3GA-X-ST	Din-rail Unmanaged, 2 x 1000Mbps T(X) Port, 1 x 1000Mbps Fiber Port , Multi-mode 550m, ST Interface, Industrial Temperature: -40°C to 75°C, Power Supply 12~48 VDC
HEMC3GA-X-SSC	Din-rail Unmanaged, 2 x 1000Mbps T(X) Port, 1 x 1000Mbps Fiber Port , Single-mode 20km, SC Interface, Industrial Temperature: -40°C to 75°C, Power Supply 12~48 VDC
HEMC3GA-X-SST	Din-rail Unmanaged, 2 x 1000Mbps T(X) Port, 1 x 1000Mbps Fiber Port , Single-mode 20km, ST Interface, Industrial Temperature: -40°C to 75°C, Power Supply 12~48 VDC
Other Models Are Available upon Request.	

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