

iMC2G

Industrial Gigabit 2 Ports Ethernet to Fiber Media Converter / Unmanaged Switch

Product Overview



iMC2G is a Gigabit media converter for the conversion of 10/100/1000Base-T(X) RJ45 to 1000Base-X SFP interface which allows extending of communication distance using optical fiber.

The media converter supports MDI/MDIX auto detection for 10/100/1000Base-T(X) interface, so crossover wires are not required.

iMC2G provides relay output to carry capacity of 1A at 24VDC for power alarm output.

The iMC2G has a wide operating temperature range from -40°C to +85°C, accepts a wide input voltage range, and is suitable for harsh operating environments.



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Features

Table 1. Features

Feature	
Supports:	<ul style="list-style-type: none">• 1 X 10/100/1000Base-T(X) RJ45 auto-negotiation and auto MDI/MDI-X port• 1 X 1000Base-X SFP• Ethernet to SFP port
Dual Input Power Supplies	
IP-40 Galvanized Steel Housing	
DIP-Switch Select for Power Alarm Output	
Operating Temperature -40°C to +85°C	
DIN rail and panel mount	



Product Specifications

Table 2. Technical Specification

Description	Specification
10/100/1000Base-T(X) RJ45 Ports Auto MDI/MDIX	1
1000Base-X SFP Port	1
Fault Contact	
Relay	Relay output to carry capacity of 1A at 24 VDC
Dip switch	Relay output function enable / disable power failure alarm
DIP Switch Function	
1,2 OFF	Relay Relay Function DisableFunction Disable
1 ON	PWR-1 failure, Relay Enable
2 ON	PWR-2 failure, Relay Enable
Physical Characteristics	
Enclosure	IP-40 Galvanized Steel
Dimensions (W x D x H)	114.3 (W) x 119.91 (D) x 203.20 (H) mm (4.5 x 4.72 x 8.0 inches) panel mount 71.03 (W) x 127.61 (D) x 176.94 (H) mm (2.8 x 5.02 x 6.97) DIN rail mount
Unit Weight (g)	~1500 g
Power	
Input Power	Dual Input 10-48VDC, or Single Input 36-75VDC with Single 10-48VDC Backup, or Single Input 110-370VDC or 90-264VAC with Single 10-48VDC Backup
Power Consumption (Typ.)	3.5 Watts
Overload Current Protection	Present
Reverse Polarity Protection	Present on terminal block



Table 3. Compliance Specifications

Type	Standards
Electromagnetic Emissions	FCC Part 15, Class A, CISPR Class A (EN55022)
Electromagnetic Immunity	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Safety Standards	EN60950-1
Operating Environment	-40°C to +85°C (-40° to 185°F) (no fans) EN 60068-2-21
Storage Environment	-40°C to +85°C (-40° to 185°F) EN 60068-2-14
Operating Humidity	5% to 95% Non-condensing EN 60068-2-30
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-32
Warranty	5 years

Table 4. Standards and Management

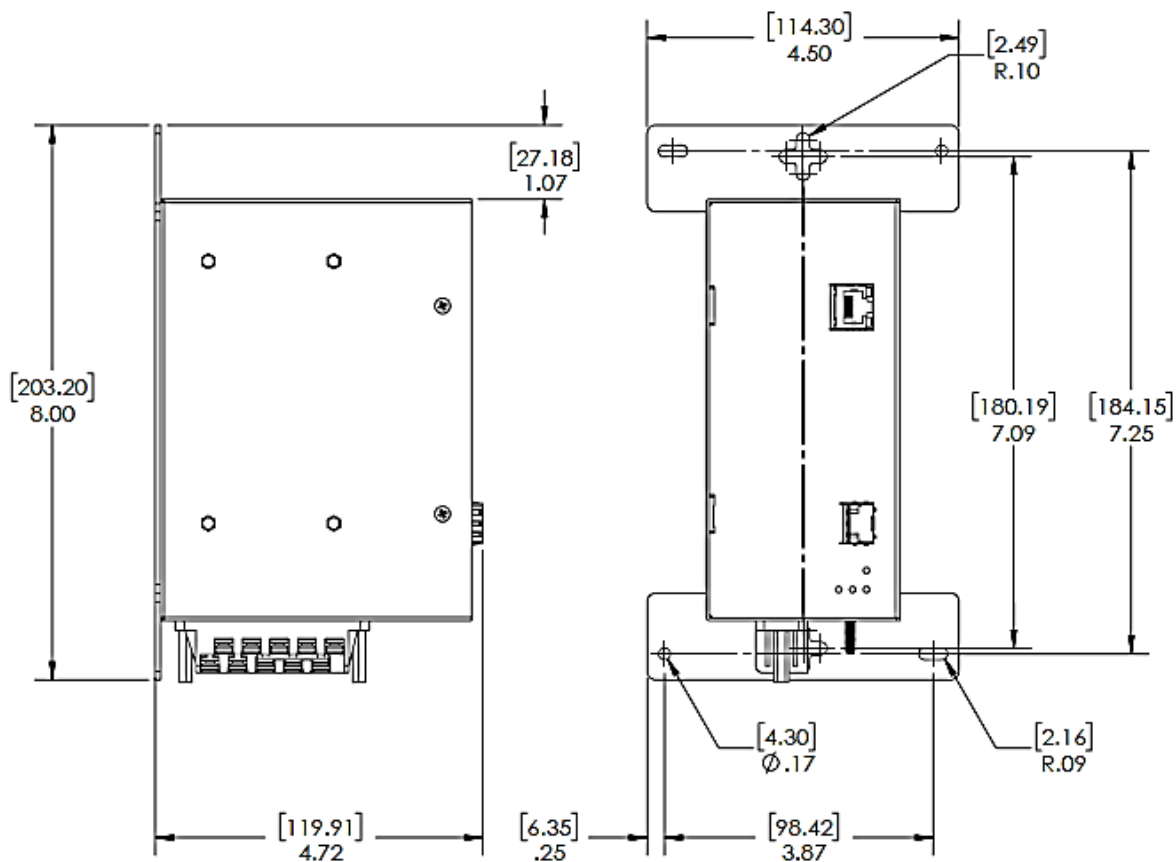
Description	Specification
IEEE Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-T(X) and 100Base-FX IEEE 802.3ab for 1000Base T IEEE 802.z for 1000Base-X
RFC Compliance	RFC 4445 MDI RFC 5171 UDLD Protocol



Dimensions

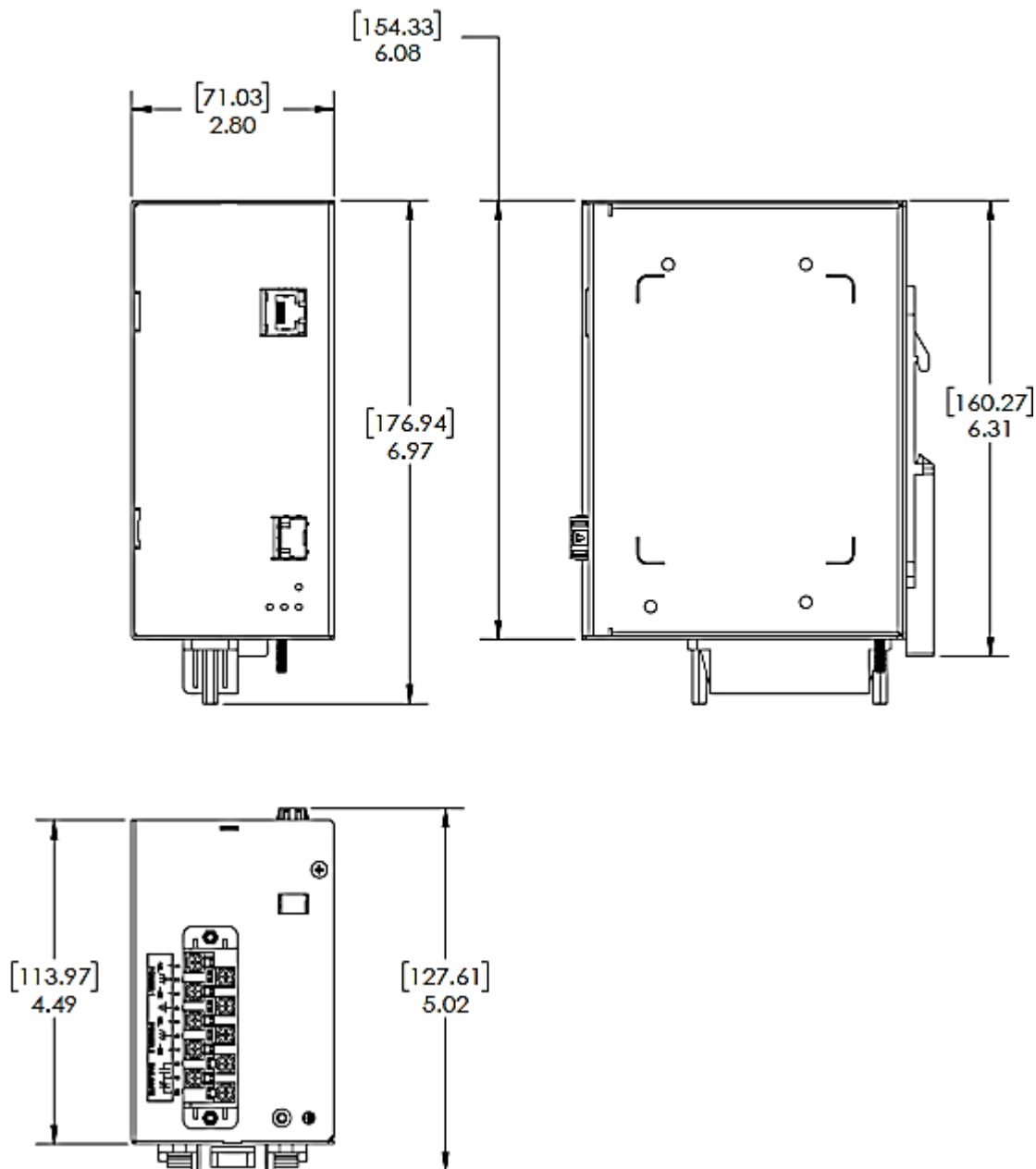
All dimensions are shown in inches

PANEL MOUNT





DIN MOUNT





Ordering Information

Base	Power Supply	Mount	Ethernet Port 1	Ethernet Port 2	Conformal Coating	Description
iMC2G	HV	D	1GRJ45	1GSFP		
iMC2G						Core assembly and packaging
	LV					Dual Input 10-48VDC
	MV					Single Input 36-75VDC with Single 10-48VDC Backup
	HV					Single Input 110-370VDC or 90-264VAC with Single 10-48VDC Backup
		D				DIN Rail Mounting
		P				Panel Mounting
		N				No Mounting Hardware
			1GRJ45			1 X 10/100/1000Base-T(X) RJ45
				1GSFP		1 X 1000Base-X SFP
					C1	Conformal Coating

Example Order Code Description:

iMC2G-HV-D-1GRJ45-1GSFP-C1

Industrial 2 Port Gigabit Media Convertor, (Power Supply) Single Input 110-370VDC or 90-264VAC with Single 10-48VDC Backup, (Mount) DIN Rail Mounting, (Ethernet Port 1) 1 X 10/100/1000Base-T(X) RJ45, (Ethernet Port 2) 1 X 1000Base-X SFP (Blank no optical transceivers), C1 - added for conformal coating**