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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.

Features and Benefits

Table 1. Features

FEATURE	
SUPPORTS	•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	
RELAY OUTPUT FOR POWER FAILED ALARM	
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
WEIGHT (G)	~1500 g
POWER	
INPUT POWER	Redundant Power Supplies: Dual Input 24VDC(Nom), 10-36VDC (Oper), or Single Input 48VDC(Nom), 36-75VDC (Oper) with Single 24VDC(Nom), 10-36VDC (Oper) Backup, or Single Input 100-240VDC(Nom), 88-300VDC(Oper) or 100-240VAC(Nom), 85-264VAC(Oper) 50/60Hz with Single 24VDC (Nom), 10-36VDC (Oper) Backup
POWER CONSUMPTION (TYP.)	3.5 Watts
OVERLOAD CURRENT PROTECTION	Present
REVERSE POLARITY PROTECTION	Present on terminal block

Questions? Call: +1.844.520.0588

Product Specifications

Table 3. Compliance Specification

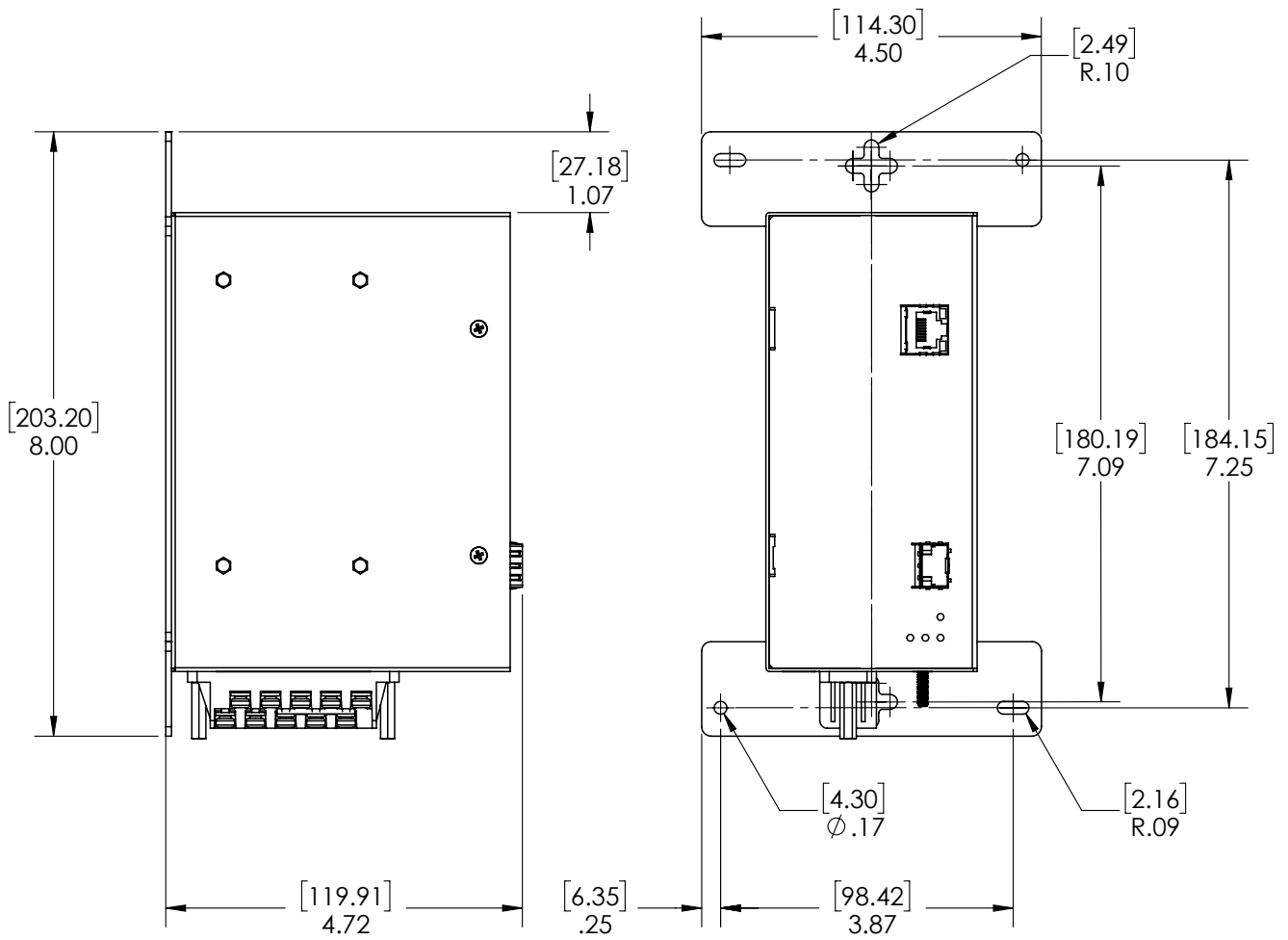| TYPE	STANDARDS
ELECTROMAGNETIC EMISSIONS	FCC Part 15, Class A, CISPR Class A (EN55022)
ELECTROMAGNETIC IMMUNITY	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
INDUSTRY STANDARDS	IEC 61850-3 and IEEE 1613
SAFETY STANDARDS	EN60950-1
OPERATING ENVIRONMENT	-40ºC to +85ºC (-40º to 185ºF) (no fans) EN 60068-2-21
STORAGE ENVIRONMENT	-40ºC to +85ºC (-40º to 185ºF) 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	IEC60068-2-6
WARRANTY	5 years, (extendable option with additional terms)

Table 4. Standards and Management

DESCRIPTION	SPECIFICATION
IEEE STANDARDS	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X
RFC COMPLIANCE	RFC 4445 MDI RFC 5171UDLD Protocol

Dimensions

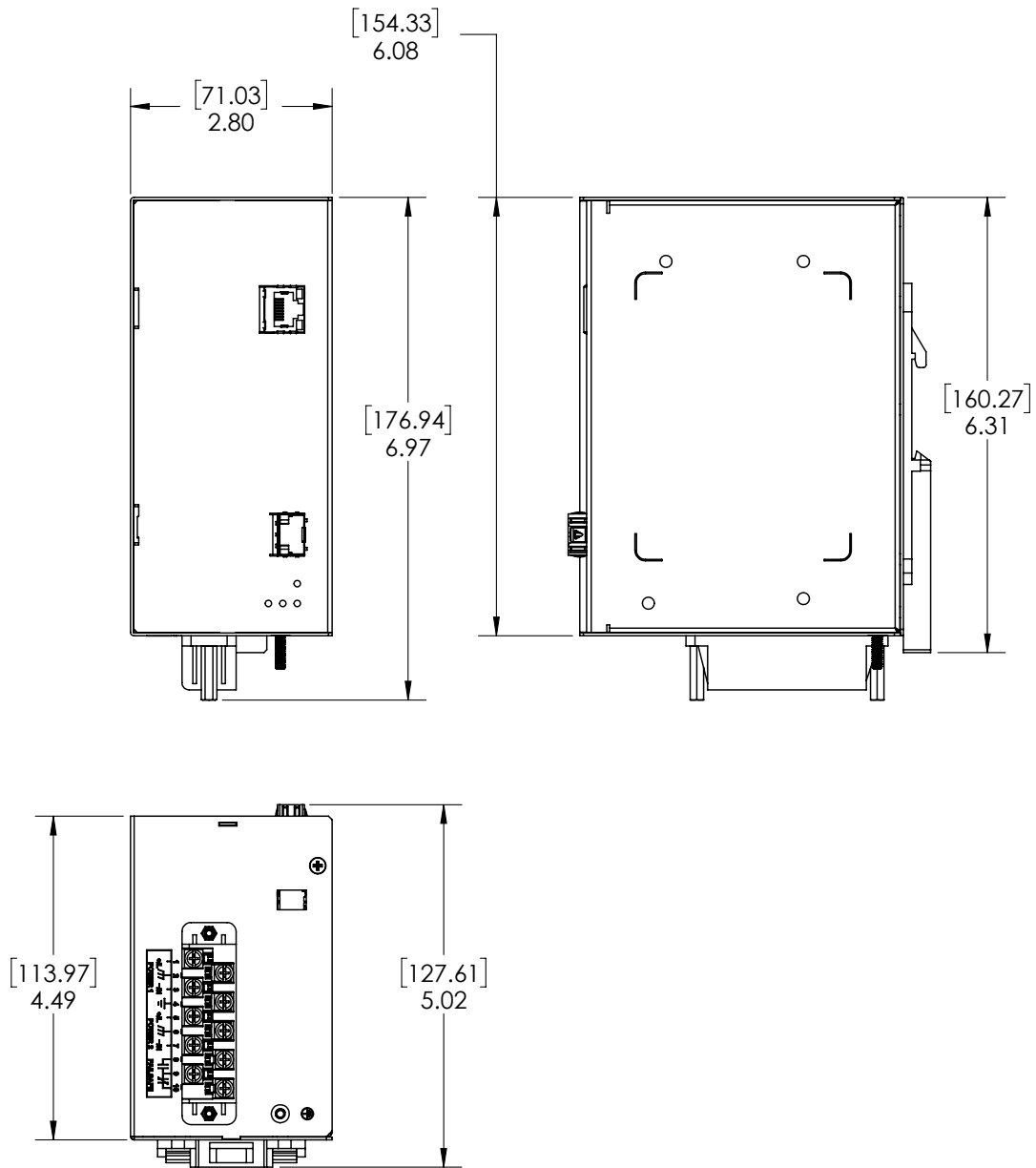All dimensions are shown in inches [millimeters].

PANEL MOUNT

$\begin{bmatrix} 114.30 \end{bmatrix}$
4.50

$\begin{bmatrix} 2.49 \end{bmatrix}$
R.10

$\begin{bmatrix} 27.18 \end{bmatrix}$
1.07

$\begin{bmatrix} 203.20 \end{bmatrix}$
8.00

$\begin{bmatrix} 180.19 \end{bmatrix}$
7.09

$\begin{bmatrix} 184.15 \end{bmatrix}$
7.25

$\begin{bmatrix} 4.30 \end{bmatrix}$
⌀ .17

$\begin{bmatrix} 2.16 \end{bmatrix}$
R.09

$\begin{bmatrix} 119.91 \end{bmatrix}$
4.72

$\begin{bmatrix} 6.35 \end{bmatrix}$
.25

$\begin{bmatrix} 98.42 \end{bmatrix}$
3.87

Dimensions

All dimensions are shown in inches [millimeters].

DIN MOUNT

[154.33]
6.08

[71.03]
2.80

[176.94]
6.97

[160.27]
6.31

[113.97]
4.49

[127.61]
5.02

Ordering Information

BASE	POWER SUPPLY	MOUNT	ETHERNET PORT 1	ETHERNET PORT 2	MOD	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 10/100Base-T(X) RJ45
				1GSFP		1 X 1000Base-X SFP
					C1	Conformal Coating

iMC2G Sample Order Code

iMC2G-HV-D-1GRJ45-1GSFP

Description: 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**).

The same unit, may be ordered with conformal coating by appending '-C1' to the order code, for example: iMC2G-HV-D-1GRJ45-1GSFP-C1

Description: 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**). This system will be conformal coated.

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