

Quick Start Guide

iMC4 Series

Industrial Media Converter

Introduction

iMC4 Series is a cost-effective solution for the conversion between 10/100Base-T (X) and 100Base-FX interface, it allows you to extend communication distance by optical fiber. **iMC4 series** supports MDI/MDIX auto detection, so you don't need to use crossover wires.

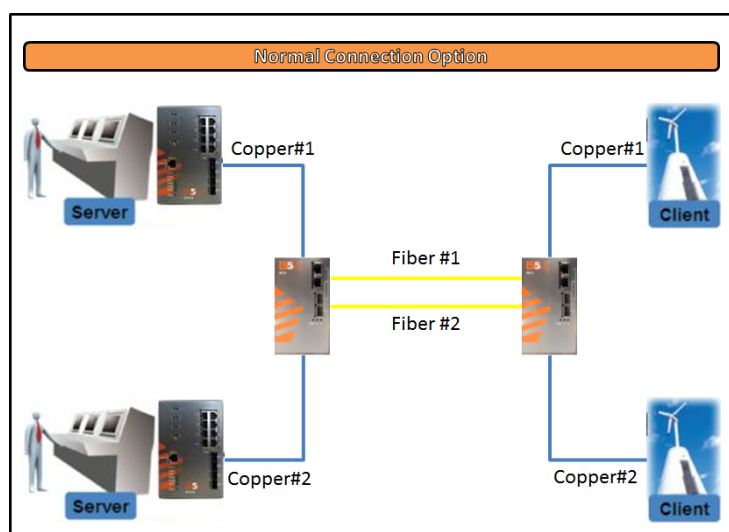
iMC4 Series with wide operating temperature range from -40~+85C and accepts a wide voltage range from dual 10 ~ 48 VDC power inputs, so it is suitable for harsh operating environments.



Features

- > Supports 2 port 10/100Base-T(X) auto-negotiation and auto-MDI/MDI-X
- > Supports Ethernet to fiber or Ethernet to SFP port
- > Supports full/half duplex operation mode
- > Supports store and forward transmission
- > Provided DIP-Switch to setting function (future implemenatton)
- > High reliability and rigid IP-30 housing
- > DIN-Rail and wall-mount enabled

Media Converter - Concept of Operation



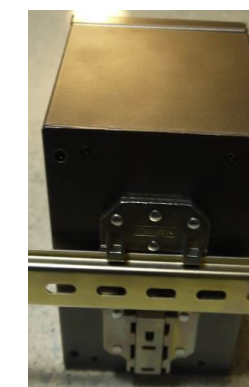
Specifications

Model Number	iMC4
Physical Ports	
10/100 Base-T(X) Port in RJ45 Auto MDI/MDIX	2
100Base-(X) SFP port	2
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-T(X) and 100Base-FX, IEEE 802.3x for Flow control
Processing	Store-and-Forward
Power	
Input power	Single DC inputs 10 to 48VDC, Single DC Inputs 36-72VDC, or Single Input universal supply 88-370VDC or 85-264VAC with a single 10-48VDC Backup
Power consumption (Typ.)	5 Watts (include SFPs)
Overload current protection	Present
Reverse polarity protection	Present on terminal block

Default Configuration

Dip Switch	Combination	Description
P0_CFG	1-ON, 2-OFF 1-OFF, 2-ON	PORT 0 FORCED 100BASE-FX FULL DUPLEX PORT 0 FORCED 100BASE-FX HALF DUPLEX
P1_CFG	1-ON, 2-OFF 1-OFF, 2-ON	PORT 1 FORCED 100BASE-FX FULL DUPLEX PORT 1 FORCED 100BASE-FX HALF DUPLEX
LED_FEFI_CFG	5-ON, 6-OFF 5-OFF, 6-ON	LED MODE 3, FEFI ENABLED LED MODE 3, FEFI DISABLED
FD_FLOW_DIS	7-ON	ENABLE PAUSE BASED FLOW CTRL ON ALL FD PORTS
E_DIN_HD_FLOW_DIS	8-ON	ENABLE FORCED COLLISION FLOW CTRL ON ALL HD PORTS
MDIX_CLB_EDENA_CFG	9-ON, 10-OFF 9-OFF, 10-ON	AUTO-CROSSOVER, CLASS B DRIVERS, ENERGY DETECT ENABLED AUTO-CROSSOVER, CLASS B DRIVERS, ENERGY DETECT DISABLED

Installation



Physical Characteristics

Enclosure	IP-40 Galvanized Steel
Dimension (W x D x H)	76.2(W) x 90.2(D) x 148.3(H)mm (3.0 x 3.55 x 5.84 inches)
Weight (g)	~1000 g

Environmental

Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Operating Temperature	-40°C to +85°C (-40°F to +185°F) No Fans
Operating Humidity	5% to 95% Non-condensing

Regulatory approvals

EMI	FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4)
EMS	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
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1

Warranty

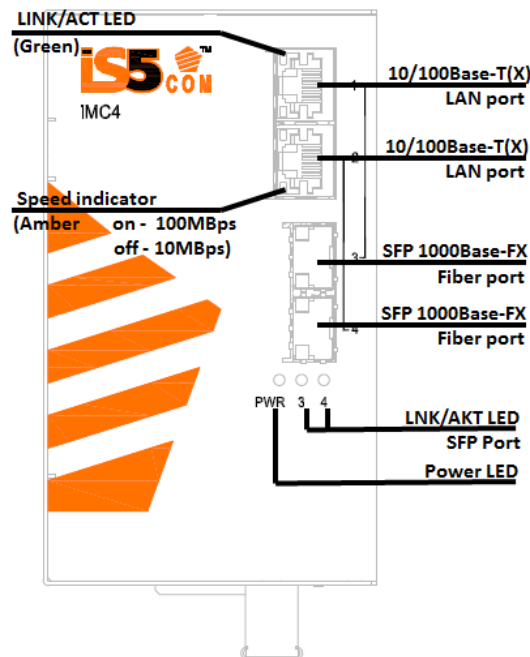
Warranty	5 Years
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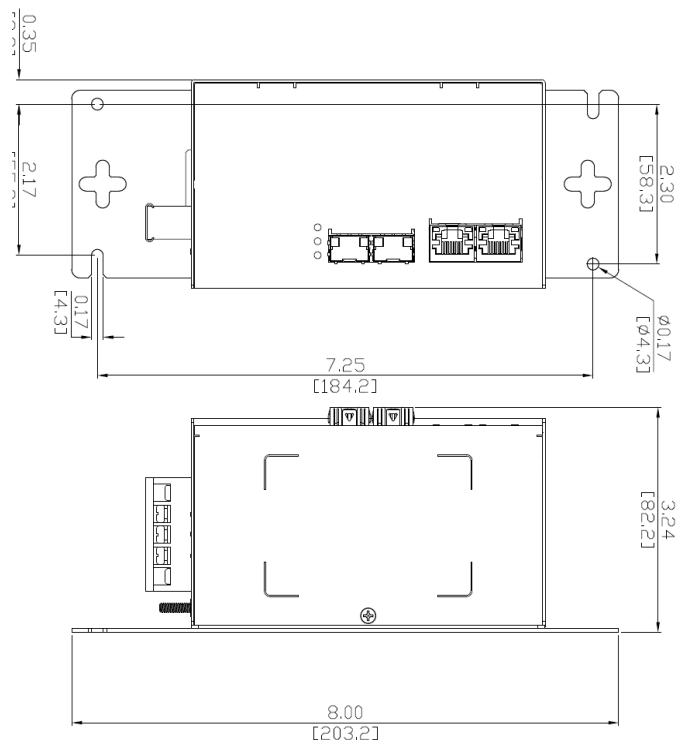
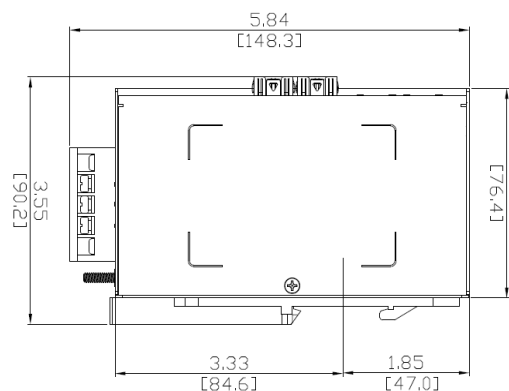
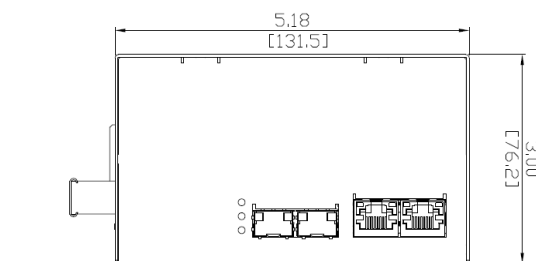
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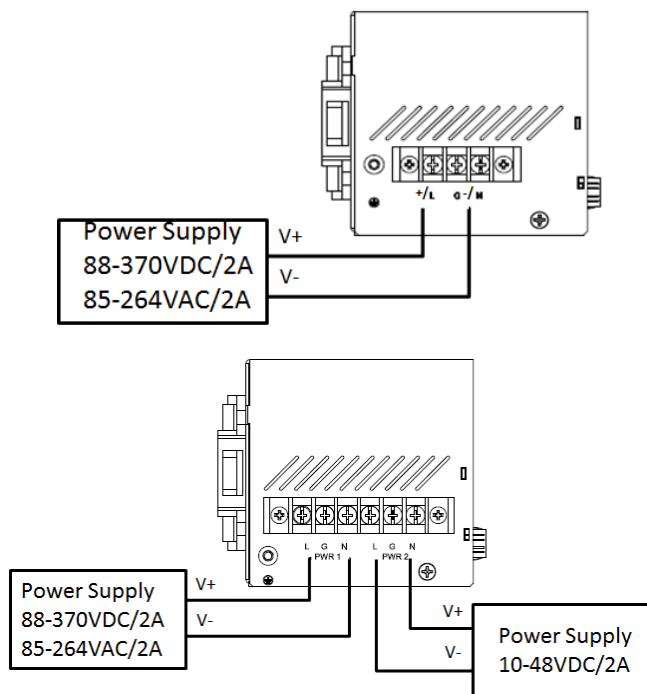
Front Panel



Dimentiones



Power Connection Guide

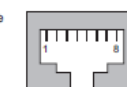


Communication Connections

10/100Base-T(X) Ethernet Port Connection

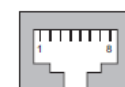
RJ45 (8-pin, MDI) Port Pinouts

Pin	Single
1	Tx+
2	Tx-
3	Rx+
6	Rx-

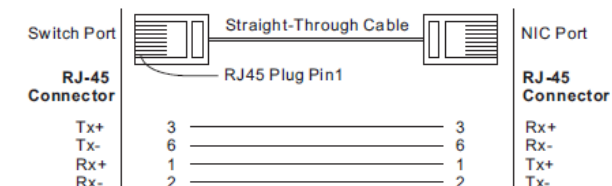


RJ45 (8-pin, MDI-X) Port Pinouts

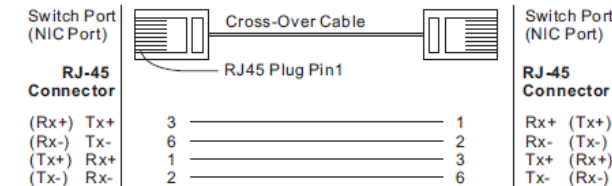
Pin	Single
1	Rx+
2	Rx-
3	Tx+
6	Tx-



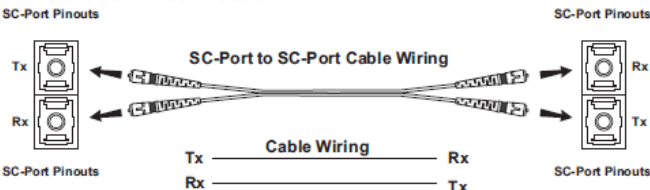
RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring



RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring



100Base-FX Connection



100Base-FX SFP Port Connection

