

# IMC-21GA Series

## Industrial Gigabit Ethernet-to-fiber media converters



### Features and Benefits

- Supports 1000Base-SX/LX with SC connector or SFP slot
- Link Fault Pass-Through (LFPT)
- 10K jumbo frame
- Redundant power inputs
- -40 to 75°C operating temperature range (-T models)
- Supports Energy-Efficient Ethernet (IEEE 802.3az)

### Certifications



## Introduction

The IMC-21GA industrial Gigabit media converters are designed to provide reliable and stable 10/100/1000BaseT(X)-to-100/1000Base-SX/LX or selected 100/1000Base SFP module media conversion. The IMC-21GA supports IEEE 802.3az (Energy-Efficient Ethernet) and 10K jumbo frames, allowing it to save power and enhance transmission performance. All IMC-21GA models are subjected to a 100% burn-in test, and they support a standard operating temperature range of 0 to 60°C and an extended operating temperature range of -40 to 75°C.

## Specifications

### Ethernet Interface

10/100/1000BaseT(X) Ports (RJ45 connector)	1
1000BaseSFP Slots	IMC-21GA/21GA-T: 1
100BaseFX Ports (multi-mode ST connector)	IMC-21GA-LX-SC Series: 1
100BaseFX Ports (single-mode SC connector)	IMC-21GA-SX-SC Series: 1
Magnetic Isolation Protection	1.5 kV (built-in)

### Optical Fiber

	1000BaseSX	1000BaseLX
Wavelength	850 nm	1310 nm
Tx Output (dBm)	-3 to -10	-3 to -9
Rx Sensitivity (dBm)	-3 to -20	-3 to -21
Link Budget (dBm)	10	12
Typical Distance	500 m	10 km

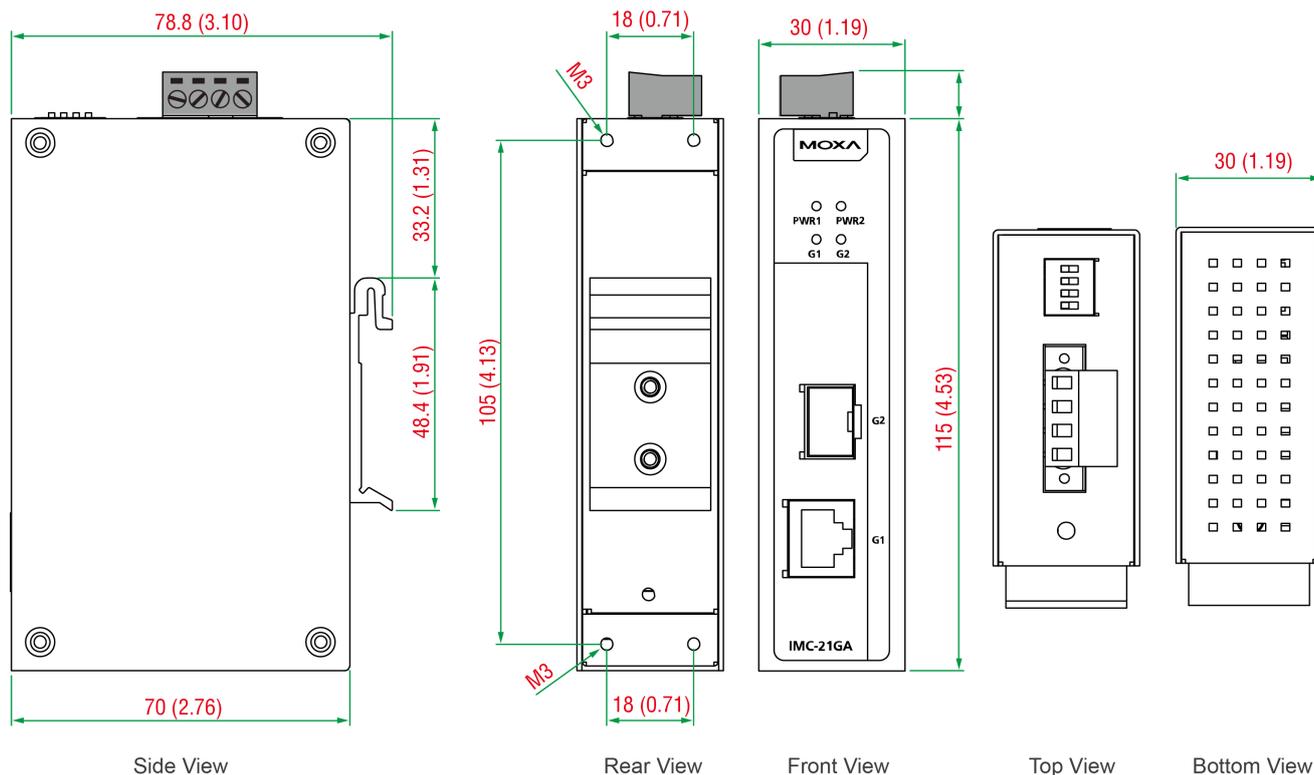
### Power Parameters

Input Current	285 mA @ 12 VDC
Input Voltage	12 to 48 VDC
Overload Current Protection	Supported

Power Connector	Terminal block
Power Consumption	285 mA @ 12 VDC
<b>Physical Characteristics</b>	
Housing	Metal
Dimensions	30 x 125 x 79 mm (1.19 x 4.92 x 3.11 in)
Weight	170 g (0.37 lb)
Installation	DIN-rail mounting
<b>Environmental Limits</b>	
Operating Temperature	Standard Models: -10 to 60°C (14 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
<b>Standards and Certifications</b>	
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 1 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs
Environmental Testing	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-3
Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6
<b>MTBF</b>	
Time	2,762,058 hrs
Standards	MIL-HDBK-217F
<b>Warranty</b>	
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>
<b>Package Contents</b>	
Device	1 x IMC-21GA Series converter
Documentation	1 x quick installation guide 1 x warranty card

## Dimensions

Unit: mm (inch)



## Ordering Information

Model Name	Operating Temp.	Fiber Module Type
IMC-21GA	-10 to 60°C	SFP
IMC-21GA-T	-40 to 75°C	SFP
IMC-21GA-SX-SC	-10 to 60°C	Multi-mode SC
IMC-21GA-SX-SC-T	-40 to 75°C	Multi-mode SC
IMC-21GA-LX-SC	-10 to 60°C	Single-mode SC
IMC-21GA-LX-SC-T	-40 to 75°C	Single-mode SC

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