

# IMC-P21GA-G2 系列

## PoE+ 乙太網路轉光纖媒體轉換器



### 特色與優點

- 10/100BaseT(X) 自動協調和自動 MDI/MDI-X
- 符合 IEEE 802.3af (PoE) 與 IEEE 802.3at (PoE+) 標準
- PoE+ 連接埠輸出可達 36 W
- 支援儲存轉發模式以及透通模式
- -10°C 至 60°C 操作溫度範圍
- 備援雙直流電源輸入

### 認證



## 簡介

IMC-P21GA-G2 PoE+ Gigabit 乙太網路轉光纖媒體轉換器是專為提供可靠與穩定的 10/100/1000BaseT(X) 轉 100/1000Base-SX/LX 或 100/1000Base SFP 模組媒體轉換而設計。這些轉換器被歸類為電源供應設備 (PSE)，可為受電設備 (PD) 直接供電，而無須額外接線。

IMC-P21GA-G2 PoE+ Gigabit 乙太網路轉光纖媒體轉換器在標準模式下可為 PoE+ 連接埠提供最高 30 瓦電力，同時對高覆載工業級 PoE 裝置可提供高達 36 瓦的高功率輸出，例如附帶雨刷/加熱器，可耐風雨的 IP 監視攝影機、高效能的無線存取點以及 IP 電話。IMC-P21GA-G2 媒體轉換器用途極為廣泛，具有 SFP 光纖連接埠，可在高度 EMI 抗擾性之下，將資料從裝置傳輸至控制中心（最遠可達 80 公里）。

PoE+ Gigabit 乙太網路轉光纖媒體轉換器支援多種實用的功能，並可進行 PoE 診斷，支援鏈路故障告警 (Link Fault Pass-through)、儲存轉發模式以及透通模式。IMC-P21GA-G2 轉換器支援 IEEE 802.3/802.3u/802.3x 的 10/100/1000M 和 MDI/MDI-X 自動感測功能，為您的工業級乙太網路提供完整的解決方案。

## 規格

### Ethernet Interface

100/1000BaseSFP Ports	IMC-P21GA-G2 models: 1
1000BaseSX Ports (multi-mode SC connector)	IMC-P21GA-G2-SX-SC models: 1
1000BaseLX Ports (single-mode SC connector)	IMC-P21GA-G2-LX-SC models: 1
PoE Ports (10/100BaseT(X), RJ45 connector)	1

### Optical Fiber

Fiber Module Optical Interface	Multi-mode		Single-mode	
Fiber Data Rate	1000Base-SX		1000Base-LX	
Fiber Cable Requirements	62.5/125 $\mu$ m	50/125 $\mu$ m	9/125 $\mu$ m	
	OM1	OM2/OM3/OM4	OS1/OS2	
Typical Distance	550 m	550 m	10 km	
Wavelength	Typical (nm)	850	1310	
	TX Range (nm)	830 to 870	830 to 870	1280 to 1340
	RX Range (nm)	770 to 870	770 to 870	1100 to 1600
Optical Power	TX Range (dbm)	-3 to -10	-3 to -10	-3 to 9
	RX Range (dbm)	-3 to -20	-3 to -20	-3 to -21

Fiber Module Optical Interface		Multi-mode		Single-mode
Fiber Data Rate		1000Base-SX		1000Base-LX
Fiber Cable Requirements		62.5/125 μm	50/125 μm	9/125 μm
		OM1	OM2/OM3/OM4	OS1/OS2
	Link Budget (dB)	10	10	12
	Dispersion Penalty (dB)	3	3	1
<p>Note:</p> <ol style="list-style-type: none"> <li>When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power.</li> <li>Compute the "Typical Distance" of a specific fiber transceiver as follows: Link budget (dB) &gt; dispersion penalty (dB) + total link loss (dB).</li> </ol>				

Magnetic Isolation Protection	1.5 kV (built-in)
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### Power Parameters

Input Voltage	44 to 57 VDC PoE+ output: >52 VDC recommended PoE output: >44 VDC recommended
Power Consumption	Max 828 mA
Overload Current Protection	Supported

### Physical Characteristics

Housing	Metal
IP Rating	IP40 (with I/O modules attached)
Dimensions	90 x 73 x 20.3 mm (3.54 x 2.87 x 0.79 in)
Weight	Product Only: 212 g (0.47 lb)
Installation	DIN-rail mounting

### Environmental Limits

Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

### Standards and Certifications

EMC	EN 55032/35
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: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz; Signal: 10 V IEC 61000-4-8 PFMF
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6 IEC 60068-2-64
Freefall	ISTA 1A

## MTBF

Time	8,709,561 hrs
Standards	Telcordia SR332

## Warranty

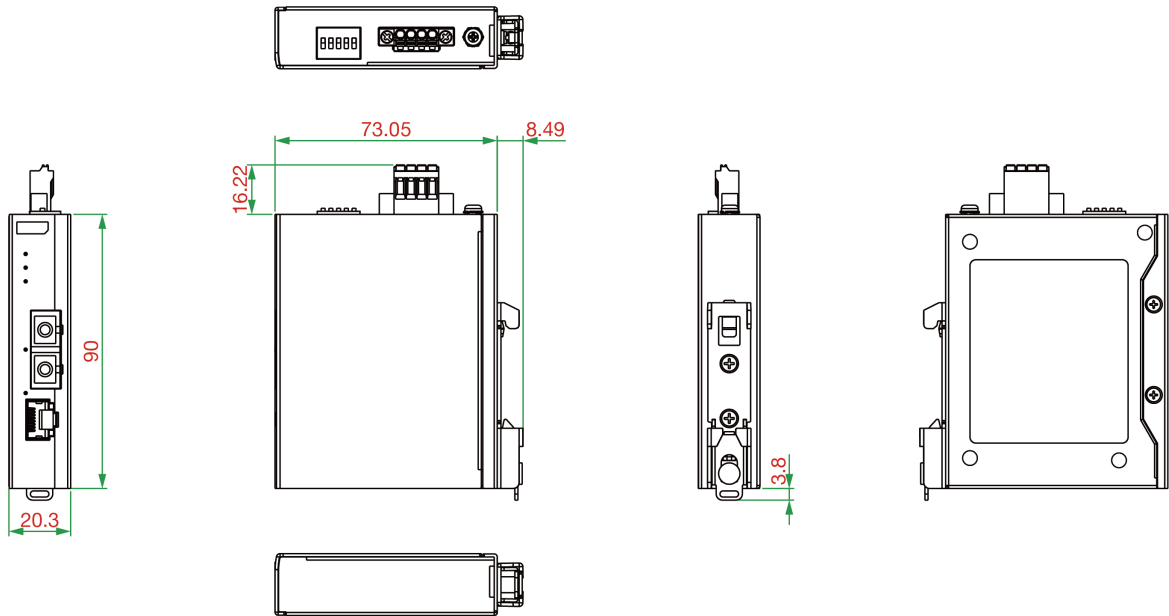
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a>

## Package Contents

Device	1 x IMC-P21GA-G2 Series converter
Documentation	1 x quick installation guide 1 x warranty card

## 尺寸

單位：公釐



## 訂購資訊

Model Name	Operating Temperature	Fiber Module Type
IMC-P21GA-G2	-10 to 60°C	SFP
IMC-P21GA-G2-SX-SC	-10 to 60°C	Multi-mode SC
IMC-P21GA-G2-LX-SC	-10 to 60°C	Single-mode SC

## 配件 (選購)

### SFP Modules

SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, -40 to 85°C operating temperature
SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature

SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature
SFP-1GLHXL	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXL-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLXLC	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GLXLC-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature
SFP-1GZXLC-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1GLSXL	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLSXL-T	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, -40 to 85°C operating temperature
SFP-1GEZXL	SFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1FELLC-T	SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1FEMLC-T	SFP module with 1 100Base multi-mode, LC connector for 2/4 km transmission, -40 to 85°C operating temperature
SFP-1FESLC-T	SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature

### Wall-Mounting Kits

WK-20-02	Wall-mounting kit, 3 screws, 20 x 140 x 2 mm
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