

IMC-P21GA-G2 系列

PoE+ Gigabit 乙太網路轉光纖媒體轉換器



特色與優點

- 10/100/1000BaseT(X) 自動協商和自動 MDI/MDI-X
- 符合 IEEE 802.3af (PoE) 和 IEEE 802.3at (PoE+) 標準
- PoE+ 連接埠輸出可達 36 W
- 支援存儲轉發模式 (store-and-forward) 及透傳模式 (pass-through mode)
- 支援 16 KB 巨型封包
- 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。這些轉換器被分類為供電設備 (PSE)，可用於直接為受電裝置 (PD) 供電，進而省去額外佈線的需求。

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+ 埠提供最高 30 瓦電力，並可於高功率模式下提供最高 36 瓦輸出，適用於高負載工業 PoE 裝置，例如具備雨刷與加熱器的戶外防水型 IP 監視攝影機、高效能無線基地台及 IP 電話等。IMC-P21GA-G2 媒體轉換器具有高度彈性，透過 SFP 光纖埠，可利用高抗電磁干擾 (EMI) 能力的光纖傳輸，最遠可達 80 公里至控制中心。

PoE+ Gigabit 乙太網路轉光纖媒體轉換器支援多種實用功能，包含巨型封包、PoE 診斷、連結故障轉移、儲存轉發模式以及透傳模式。IMC-P21GA-G2 轉換器支援 IEEE 802.3/802.3u/802.3x 的 10/100/1000M 及 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

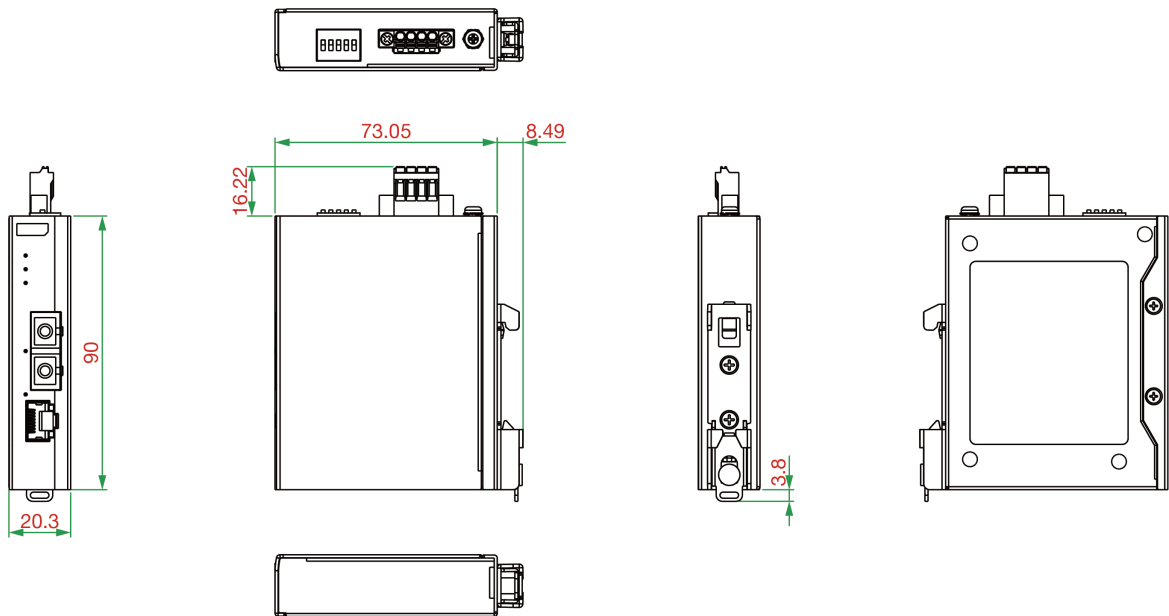
Ethernet Interface				
100/1000BaseSFP Ports		IMC-P21GA-G2 models: 1		
1000BaseSX Ports (multi-mode SC connector)		IMC-P21GA-G2-SX-SC models: 1		
1000BaseLX Ports (single-mode SC connector)		IMC-P21GA-G2-LX-SC models: 1		
PoE Ports (10/100/1000BaseT(X), RJ45 connector)		1		
Optical Fiber		Fiber Module Optical Interface		
		Multi-mode		Single-mode
		Fiber Data Rate		1000Base-SX
		Fiber Cable Requirements		1000Base-LX
				62.5/125 μm
				50/125 μm
				9/125 μm
				OM1
				OM2/OM3/OM4
				OS1/OS2
Typical Distance		550 m	550 m	10 km
Wavelength	Typical (nm)	850	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
	Note: 1. When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. 2. Compute the “Typical Distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).				
Magnetic Isolation Protection		1.5 kV (built-in)			
Jumbo Frame Size		16 KB			
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
TSN	CC-Link IE TSN Class B
MTBF	
Time	8,709,561 hrs
Standards	Telcordia Standard SR-332
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty
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-1GLHXC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXC-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-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, -40 to 85°C operating temperature
SFP-1GEZXC	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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