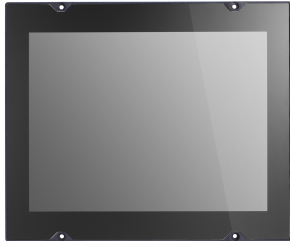


MPC-2121 系列

符合 EN 50155 標準的 12 吋鐵道專用無風扇工業觸控面板電腦



特色與優點

- 12 吋面板電腦
- Intel Atom® 處理器 E3845 1.91 GHz
- 1000 尼特日光可讀 LCD
- -40 至 70°C 寬溫設計，無風扇或加熱器
- 符合 EN 50155:2017 標準

認證



EN 50155

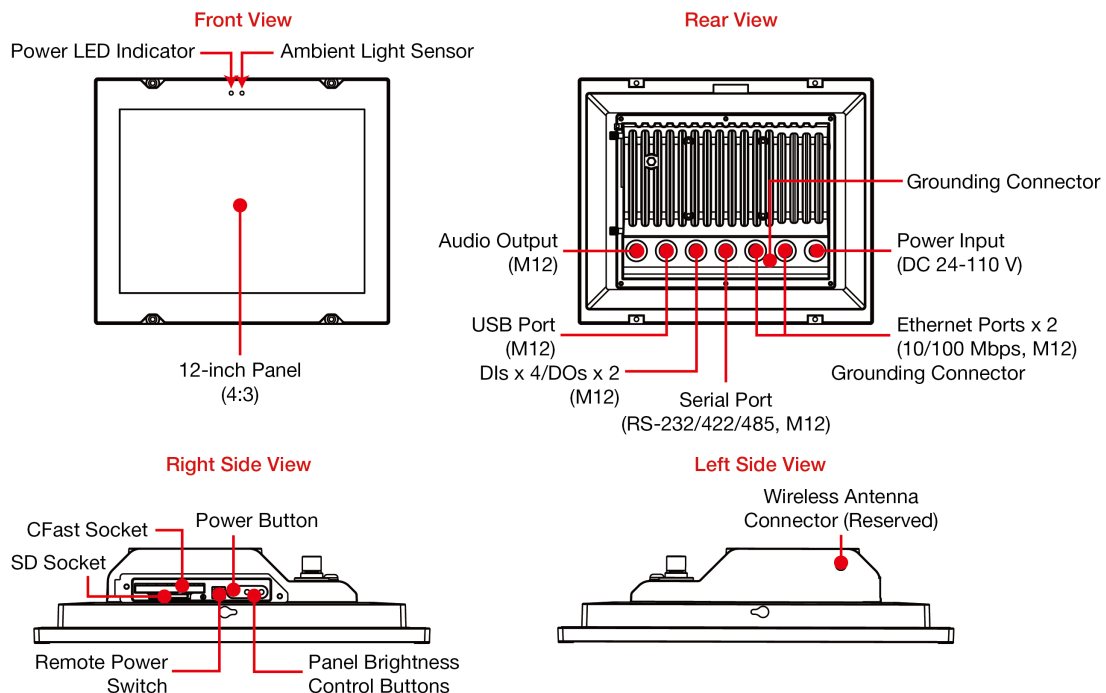


簡介

內建 E3800 系列 Intel Atom® 處理器的 MPC-2121 12 吋面板電腦提供可靠、耐用及多樣化 平台以供在工業環境中使用。所有介面均配備 符合 IP66 防護等級的 M12 接頭，可提供抗振動與防水 連接。MPC-2121 面板電腦配備兩個 可透過軟體選擇的 RS-232/422/485 串列埠與兩個乙太網路 連接埠，支援多種串列介面以及高速 IT 通訊，並內建原生網路備援功能。

MPC-2121 系列面板電腦 設計支援寬溫度範圍（-40 至 70°C），並採用 無風扇、流線型外殼設計，具備高效 散熱效能，使其成為目前最可靠的工業平台之一，非常適合應用於易受振動、惡劣、高溫及戶外環境。MPC-2121 還搭載 1000 尼特的 LCD 面板，提供日光 可讀、投射式電容多點觸控功能，帶來卓越的 使用者體驗。

外觀



規格

Computer

CPU	Intel Atom® Processor E3845 (2M Cache, 1.91 GHz)
Graphics Controller	Intel® HD Graphics
System Memory Pre-installed	4 (8GB Max.) GB DDR3L
System Memory Slot	SODIMM DDR3/DDR3L slot x 1
Pre-installed OS	MPC-2121-E4-LB-CT-T-W7E/MPC-2101-E4-CT-T-W7E: Windows Embedded Standard 7 (WS7P) 64-bit pre-installed MPC-2121-E4-LB-CT-T-LX/MPC-2121-E4-CT-T-LX: Linux 9 pre-installed
Supported OS	Windows 10 Pro 64-bit Windows 10 Embedded IoT Ent 2019 LTSC 64-bit Windows 10 Embedded IoT Ent 2016 LTSC Windows 7 Pro for Embedded Systems Windows Embedded Standard 7 (WS7P) 64-bit Linux Debian 9
Expansion Slots	Mini PCIe
Storage Slot	CFast slot x 1 SD slots x 1, SD 3.0 (SDHC/SDXC) socket
Storage Pre-installed	MPC-2121-E4-LB-CT-T-W7E/MPC-2121-E4-CT-T-W7E: 32 GB CFast Card MPC-2121-E4-LB-CT-T-LX/MPC-2121-E4-CT-T-LX: 32 GB CFast Card

Computer Interface

Ethernet Ports	Auto-sensing 10/100 Mbps ports (M12 D-coded 4P) x 2
Serial Ports	RS-232/422/485 ports x 1 (M12 A-code 12P)
USB 2.0	USB 2.0 hosts x 1 (M12 A-coded 5P)
Digital Input	DIs x 4 (M12 A-code)
Digital Output	DOs x 2 (M12 A-code)

LED Indicators

System	Power x 1
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Display

Active Display Area	245.76 (H) x 184.32 (V) mm
Aspect Ratio	4:3
Contrast Ratio	1000:1
Light Intensity (Brightness)	500/1000 cd/m ²
Max. No. of Colors	16.2M (8-bit/color)
Panel Size	12-inch viewable image
Pixel Pitch (RGB)	0.240 (H) x 0.240 (V) mm
Pixels	1024 x 768
Response Time	5 ms (gray to gray)
Viewing Angles	176°/176°

Touch Function

Touch Type	Capacitive Touch (PCAP)
Touch Support Points	4 points
Glove Support	Yes

Serial Interface

Baudrate	50 bps to 115.2 kbps
Data Bits	5, 6, 7, 8
Flow Control	RTS/CTS, XON/XOFF
Parity	None, Even, Odd, Space, Mark
Stop Bits	1, 1.5, 2

Serial Signals

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND

Power Parameters

Input Voltage	24 to 110 VDC
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Physical Characteristics

Housing	Metal
IP Rating	IP66
Dimensions	297 x 238 x 59 mm (11.69 x 9.37 x 2.32 in)
Weight	2850 g (6.28 lb)

Environmental Limits

Operating Temperature	-40 to 70°C (-40 to 158°F)
Storage Temperature (package included)	-40 to 70°C (-40 to 158°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

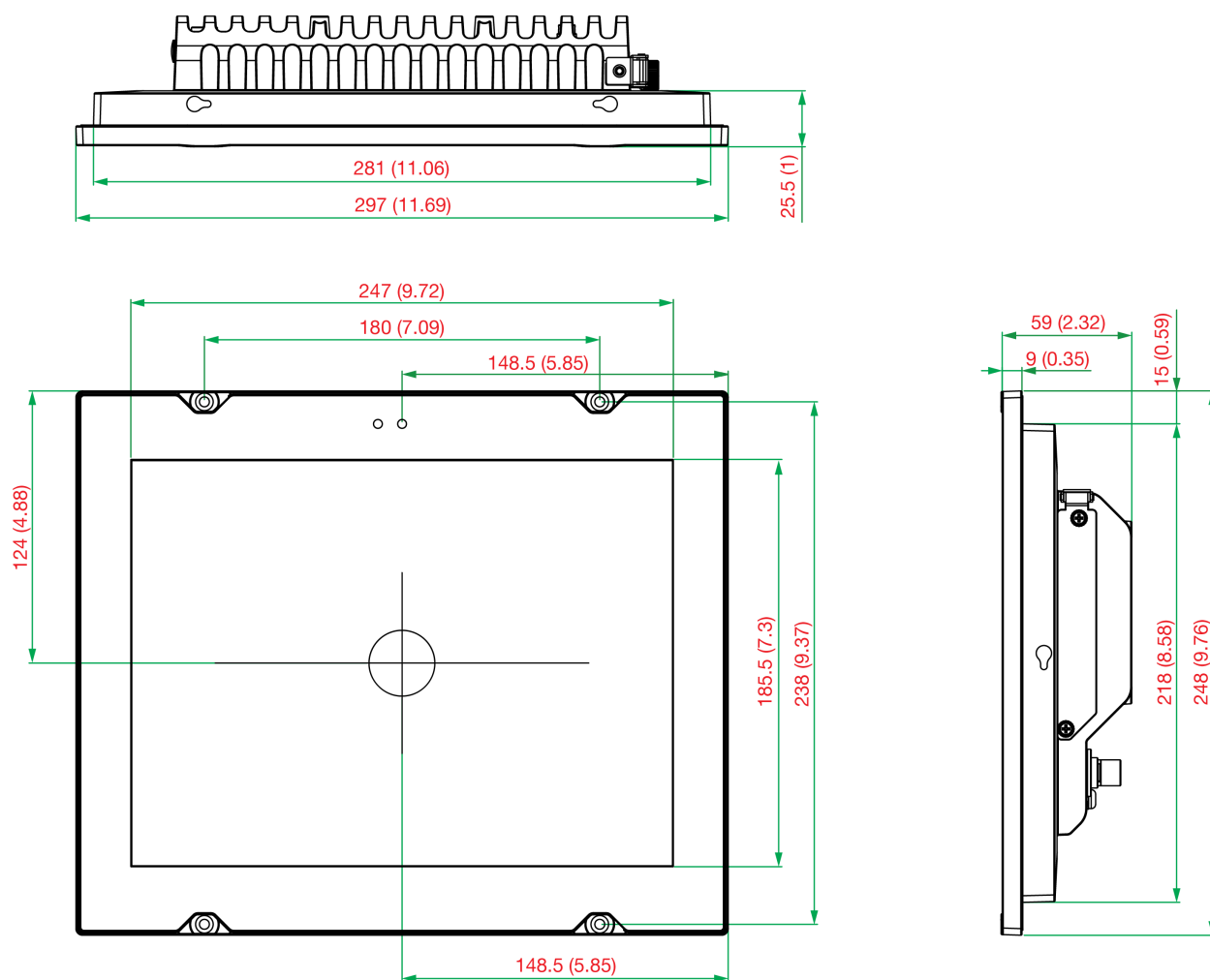
Standards and Certifications

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: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Mechanical Protection Rating	IEC 60529, IP code
Shock	EN 50155 standard
Vibration	EN 50155 standard

EMC	EN55032/35
Safety	IEC 60950-1, IEC 62368-1, UL 62368-1
Declaration	
Green Product	RoHS, CRoHS, WEEE
Warranty	
Warranty Period	LCD: 1 year System: 3 years
Details	See www.moxa.com/tw/warranty
Package Contents	
Device	1 x MPC-2121 Series computer
Installation Kit	6 x screw, for panel-mounting 1 x M12-Phone jack power cable 1 x M12-Type A USB cable 1 x terminal block, 2-pin (for remote power input)
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	Panel	CPU	RAM	OS Preinstalled	LAN	Serial	USB 2.0 Port	DI/ DO	Power Input	IP Ratin g	Operating Temp.
MPC-2121-E4-LB-CT-T-W7E	12" (4:3) 500 nits	E3845 Quad core	4 GB	W7E (64-bit)	2 (M12)	1 (M12)	1 (M12)	4/2 (M1- 2)	24 to 110 VDC	IP66	-40 to 70°C
MPC-2121-E4-CT-T-W7E	12" (4:3) 1,000 nits	E3845 Quad core	4 GB	W7E (64-bit)	2 (M12)	1 (M12)	1 (M12)	4/2 (M1- 2)	24 to 110 VDC	IP66	-40 to 70°C
MPC-2121-E4-LB-CT-T-LX	12" (4:3) 500 nits	E3845 Quad core	4 GB	Debian 9	2 (M12)	1 (M12)	1 (M12)	4/2 (M1- 2)	24 to 110 VDC	IP66	-40 to 70°C
MPC-2121-E4-CT-T-LX	12" (4:3) 1,000 nits	E3845 Quad core	4 GB	Debian 9	2 (M12)	1 (M12)	1 (M12)	4/2 (M1- 2)	24 to 110 VDC	IP66	-40 to 70°C
MPC-2121-E4-LB-CT-T	12" (4:3) 500 nits	E3845 Quad core	4 GB	–	2 (M12)	1 (M12)	1 (M12)	4/2 (M1- 2)	24 to 110 VDC	IP66	-40 to 70°C
MPC-2121-E4-CT-T	12" (4:3) 1,000 nits	E3845 Quad core	4 GB	–	2 (M12)	1 (M12)	1 (M12)	4/2 (M1- 2)	24 to 110 VDC	IP66	-40 to 70°C

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