

# MPC-3100 系列

## 10.4 英吋多介面無風扇面板電腦



### 特色與優點

- 10.4 英吋面板電腦
- Intel Atom® x6211E 雙核心或 x6425E 四核心處理器
- -30 至 60°C 操作溫度，無風扇設計，無需加熱器
- 400 尼特或 1000 尼特陽光下清晰顯示 LCD
- 可戴手套操作，多點觸控螢幕
- 符合 DNV、CID2、ATEX Zone 2 與 IECEx<sup>1</sup>
- 12/24 VDC 電源輸入

### 認證

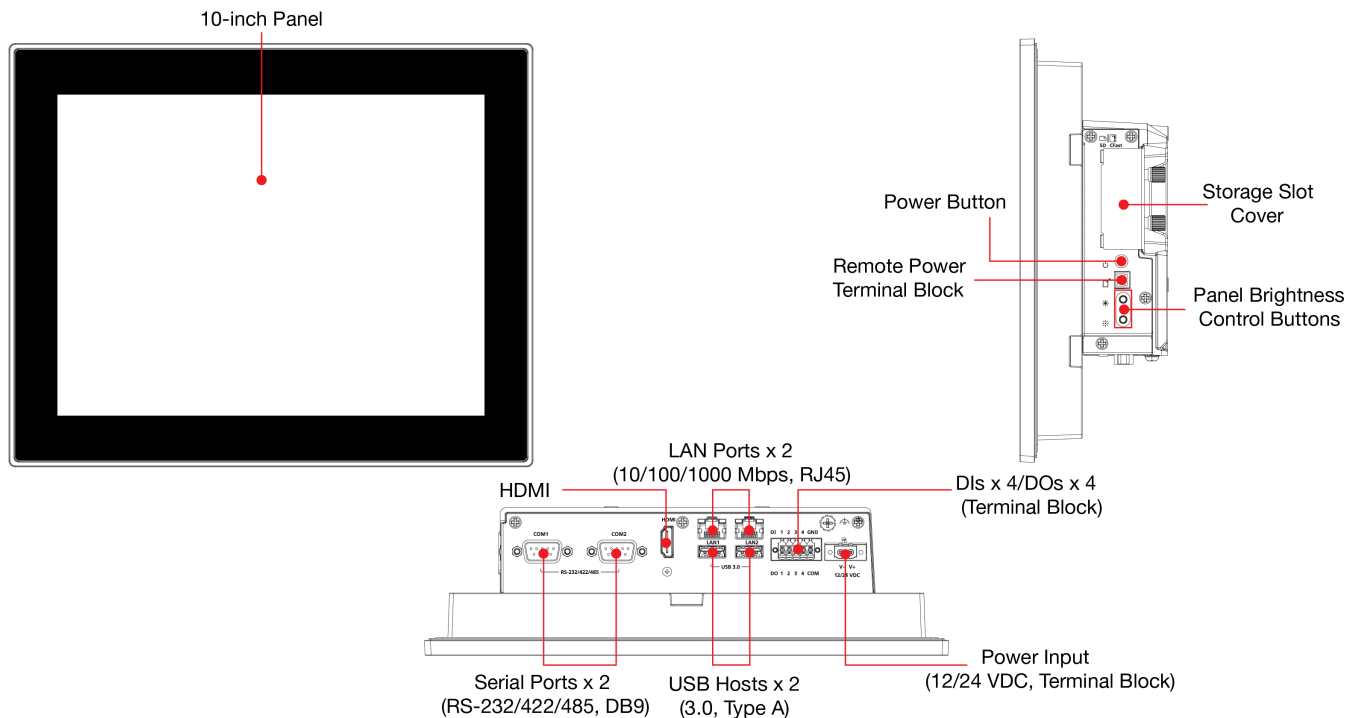


### 簡介

搭載 Intel Atom® x6211E 雙核心或 x6425E 四核心處理器的 MPC-3100 10.4 英吋面板電腦，提供可靠、耐用及多樣化的平台，適用於工業環境。MPC-3100 面板電腦配備軟體可選的 RS-232/422/485 串列埠與兩個 Gigabit 乙太網路連接埠，支援多種串列介面及高速 IT 通訊，全都具有原生網路備援能力。

MPC-3100 面板電腦專為 -30 至 60°C 溫度範圍設計，提供無風扇及高散熱性能的機殼。這將使電腦能夠成為應對例如油氣現場與鑽油平台等嚴苛、高溫、室外環境的可靠工業平台。MPC-3100 也具有 400 尼特或 1000 尼特的 LCD 面板，提供可在陽光下清晰顯示、投射式電容、可戴手套操作的多點觸控螢幕，在室外應用中呈現優越的使用者體驗。

### 外觀



1. 認證流程進行中。

## 規格

### Computer

CPU	E2 models: Intel Atom® Elkhart Lake dual-core x6211E 1.30 GHz E4 models: Intel Atom® Elkhart Lake quad-core x6425E 2.0 GHz
Graphics Controller	Intel® HD Graphics
System Memory Pre-installed	8 GB DDR4 2400 MHz (32 GB max)
System Memory Slot	SODIMM DDR4 2400 slots x 1
Supported OS	Windows 10 IoT Enterprise LTSC 2021 Windows 11 Professional (64-bit) Debian 11 (kernel 5.10) Ubuntu 22.04 LTS (kernel 5.1x) RHEL 9 (kernel 5.14)
Storage Slot	CFast slot x 1 SD slots x 1, SD 3.0 interface (SDHC/SDXC)

### Computer Interface

Ethernet Ports	Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 2
Serial Ports	RS-232/422/485 ports x 2 (software-selectable, DB9 male connector)
USB 3.0	USB 3.0 hosts x 2, type-A connectors
Digital Input	DIs x 4 (with isolation protection)
Digital Output	DOs x 4 (with isolation protection)

### LED Indicators

System	Power x 1
LAN	2 per port (10/100/1000 Mbps)

### Display

Panel Size	10.4 in (viewable image)
Aspect Ratio	4:3
Active Display Area	210.4 (H) x 157.8 (V) mm
Contrast Ratio	1000:1 (typ.)
Light Intensity (Brightness)	MPC-3100-E2-T models: 1000 nits MPC-3100-E2-LB-T models: 400 nits
Max. No. of Colors	262k, 16.7M (8-bit/color)
Panel Type	AAS
Pixel Pitch (RGB)	0.2055 (H) x 0.2055 (V) mm
Pixels	1024 x 768
Response Time	25 ms
Viewing Angles	176°/176°

## Touch Function

Touch Type	Projective Capacitive touchscreen (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, Automatic Data Direction Control (ADDC) for RS-485, RTS Toggle (RS-232 only)
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	12/24 VDC
Power Consumption	42 W (max, including full USB loading)

## Physical Characteristics

Housing	Metal
IP Rating	IP66, front IP20, rear
Dimensions	260 x 210 x 73.8 mm (10.28 x 8.27 x 2.91 in)
Weight	2,300 g (5.07 lb)

## Environmental Limits

Operating Temperature	-30 to 60°C (-22 to 140°F)
Storage Temperature (package included)	-40 to 70°C (-40 to 158°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: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV
Environmental Testing	IEC 60068-2-1, DNV-CG-0339 IEC 60068-2-1, IEC 60945 IEC 60068-2-2, DNV-CG-0339

	IEC 60068-2-2, IEC 60945 IEC 60068-2-30, DNV-CG-0339
Hazardous Locations	ATEX Zone 2 Class I Division 2 IECEx Zone 2
Maritime	DNV-CG-0339, IEC 60945, IACS E10
Safety	IEC 62368-1 UL 62368-1
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6, DNV-CG-0339, IEC 60945 IEC 60068-2-64, DNV-CG-0339

### Declaration

Green Product	RoHS, CRoHS, WEEE
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### Warranty

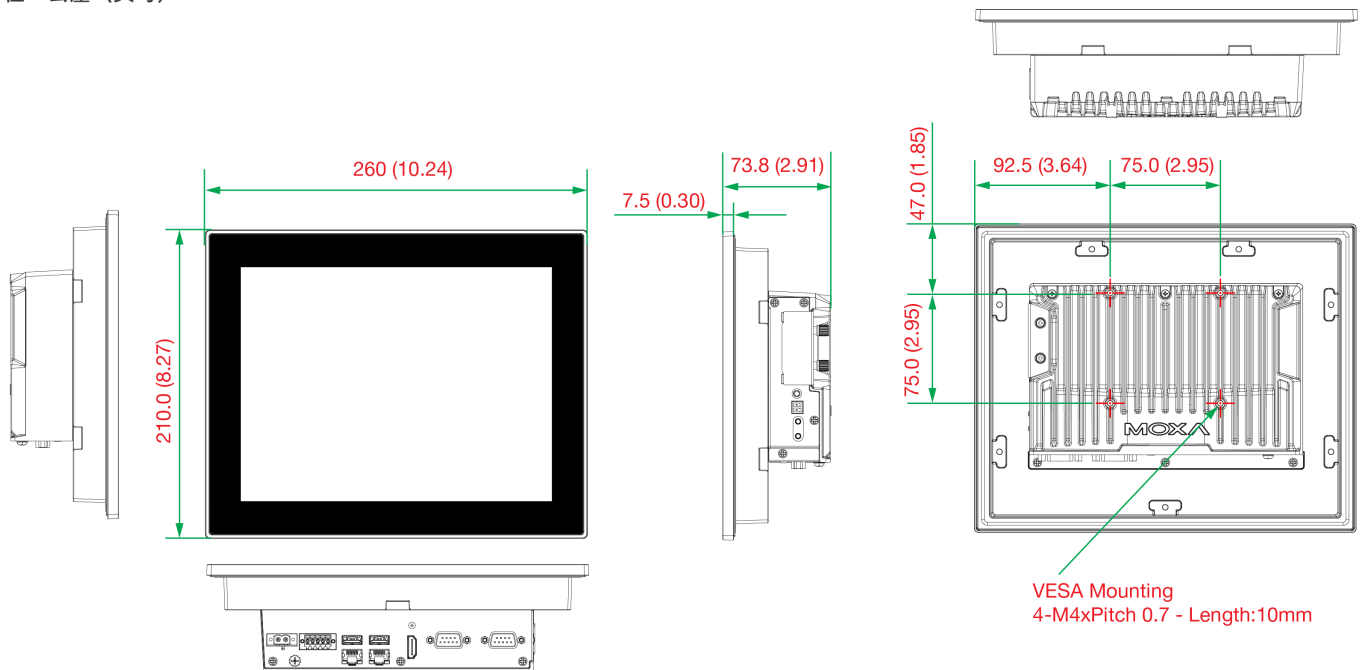
Warranty Period	System: 3 years LCD: 1 year
Details	See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a>

### Package Contents

Device	1 x MPC-3100 Series computer
Installation Kit	7 x screws, for panel-mounting 1 x terminal block, 2-pin, for DC power input 1 x terminal block, 10-pin, for DIO 1 x terminal block, 2-pin, for remote power switch
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	Touchscreen	LAN	Serial	DI/ DO	Power Input	IP Rating	Operating Temp.
MPC-3100-E2-T	10.4" (4:3) 1000 nits	Intel Atom® x6211E	8 GB	PCAP	2	2	4/4	12/24 VDC	IP66 (front), IP20 (rear)	-30 to 60°C
MPC-3100-E2-LB-T	10.4" (4:3) 400 nits	Intel Atom® x6211E	8 GB	PCAP	2	2	4/4	12/24 VDC	IP66 (front), IP20 (rear)	-30 to 60°C
MPC-3100-E4-LB-T	10.4" (4:3) 1000 nits	Intel Atom® x6425E	8 GB	PCAP	2	2	4/4	12/24 VDC	IP66 (front), IP20 (rear)	-30 to 60°C
MPC-3100-E4-T	10.4" (4:3) 400 nits	Intel Atom® x6425E	8 GB	PCAP	2	2	4/4	12/24 VDC	IP66 (front), IP20 (rear)	-30 to 60°C

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