

# MPC-3120W 系列

## 12.1 英吋多介面無風扇面板電腦



### 特色與優點

- 12.1 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



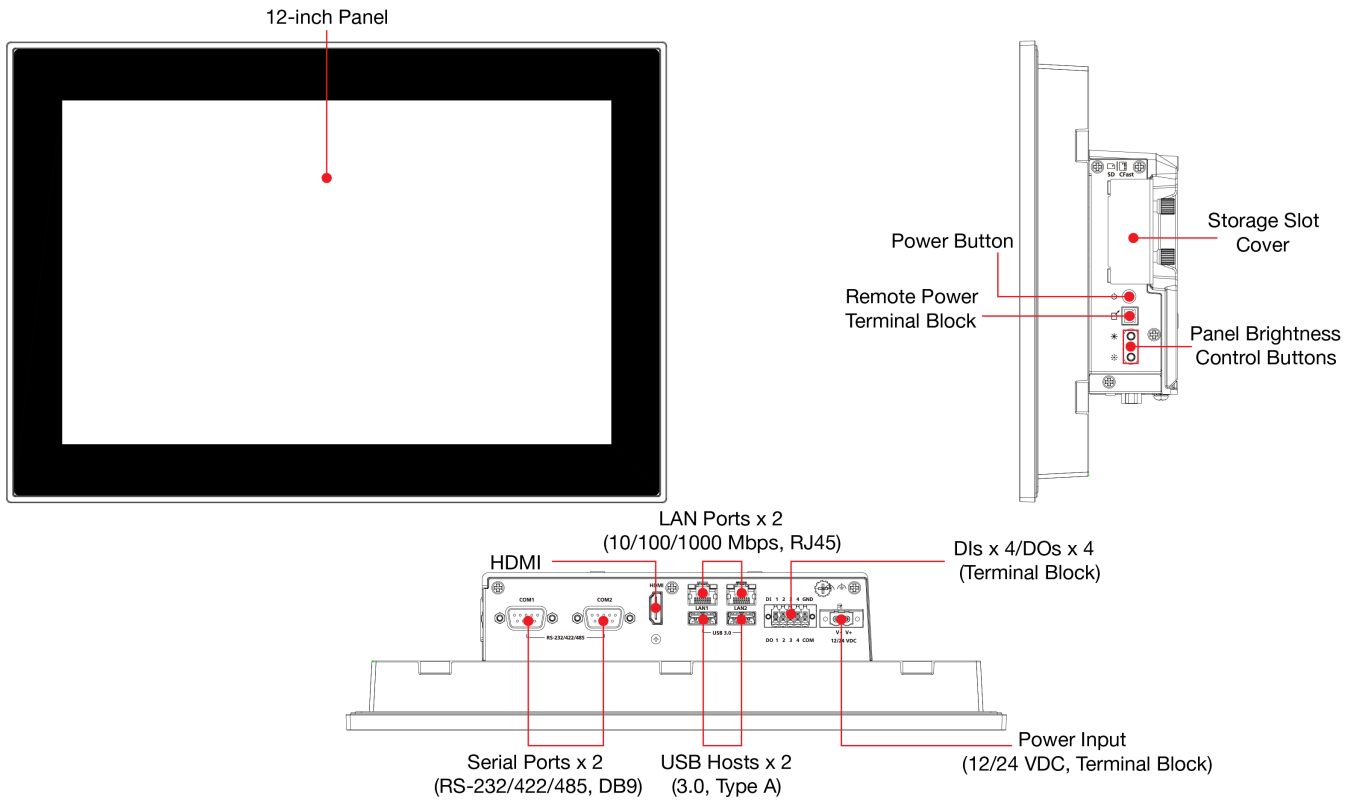
### 簡介

搭載 Intel Atom® x6211E 雙核心或 x6425E 四核心處理器的 MPC-3120W 12.1 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-3120W 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-3120W 面板電腦專為 -30 至 60°C 溫度範圍設計，提供無風扇及散熱性能佳的機殼。這將使電腦能夠成為應對例如油氣現場或鑽油平台等嚴苛、高溫、室外環境的可靠工業平台。MPC-3120W 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。

1. 認證流程進行中。

## 外觀



## 規格

### Computer

|                             |  |
|-----------------------------|--|
| CPU                         | E2 models: Intel Atom® Elkhart Lake dual-core x6211E 1.30 GHz<br>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<br>Windows 11 Professional (64-bit)<br>Debian 11 (kernel 5.10)<br>Ubuntu 22.04 LTS (kernel 5.1x)<br>RHEL 9 (kernel 5.14) |
| Storage Slot                | CFast slot x 1<br>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                   | 12.1 in (viewable image)                                       |
| Aspect Ratio                 | 16:10  |
| Active Display Area          | 261.12 (H) x 163.20 (V) mm                                     |
| Contrast Ratio               | 1000:1 (typ.)  |
| Light Intensity (Brightness) | MPC-3120W-E2/E4-T: 1000 nits<br>MPC-3120W-E2/E4-LB-T: 400 nits |
| Max. No. of Colors           | 262k, 16.7M (8-bit/color)                                      |
| Panel Type                   | AAS  |
| Pixel Pitch (RGB)            | 0.240 (H) x 0.240 (V) mm                                       |
| Pixels                       | 1280 x 800   |
| Response Time                | 27 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 | 48 W<br>(max, including full USB loading) |

## Physical Characteristics

|            |  |
|------------|--|
| Housing    | Metal  |
| IP Rating  | IP66, front<br>IP20, rear                    |
| Dimensions | 315 x 220 x 75.7 mm (12.40 x 8.66 x 2.98 in) |
| Weight     | 3,000 g (6.61 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<br>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m<br>IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV<br>IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV |
| Environmental Testing | IEC 60068-2-1, DNV-CG-0339<br>IEC 60068-2-1, IEC 60945<br>IEC 60068-2-2, DNV-CG-0339<br>IEC 60068-2-2, IEC 60945<br>IEC 60068-2-30, DNV-CG-0339   |
| Hazardous Locations   | ATEX Zone 2<br>Class I Division 2<br>IECEx Zone 2   |
| Maritime              | DNV-CG-0339, IEC 60945, IACS E10  |
| Safety                | IEC 62368-1<br>UL 62368-1   |
| Shock                 | IEC 60068-2-27  |
| Vibration             | IEC 60068-2-6, DNV-CG-0339, IEC 60945<br>IEC 60068-2-64, DNV-CG-0339  |

## Declaration

|               |                   |
|---------------|-------------------|
| Green Product | RoHS, CRoHS, WEEE |
|---------------|-------------------|

## Warranty

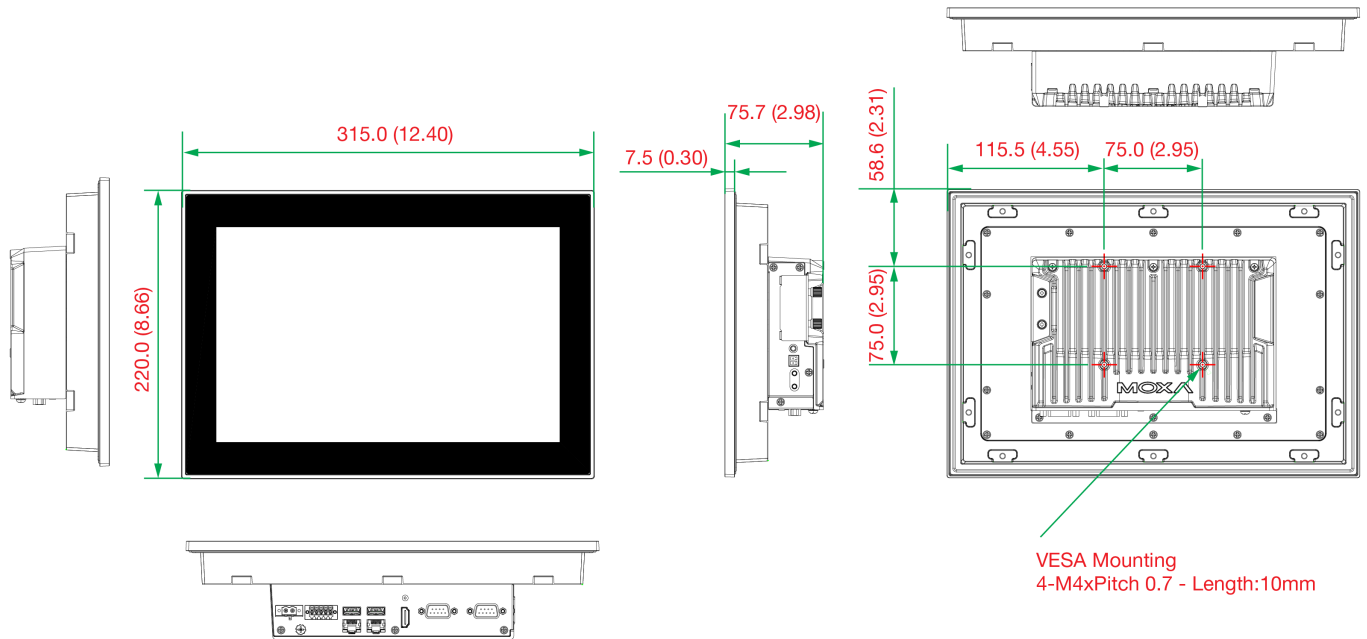
|                 |  |
|-----------------|--|
| Warranty Period | System: 3 years<br>LCD: 1 year   |
| Details         | See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a> |

## Package Contents

|                  |   |
|------------------|---|
| Device           | 1 x MPC-3120W Series computer   |
| Installation Kit | 10 x screws, for panel-mounting<br>1 x terminal block, 2-pin, for DC power input<br>1 x terminal block, 2-pin, for DIO terminal block, 2-pin, for remote power switch |
| Documentation    | 1 x quick installation guide<br>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-3120W-E2-T    | 12.1" (16:10)<br>1000 nits | Intel Atom® x6211E | 8 GB | PCAP        | 2   | 2      | 4/4   | 12/24 VDC   | IP66 (front),<br>IP20 (rear) | -30 to 60°C     |
| MPC-3120W-E2-LB-T | 12.1" (16:10)<br>400 nits  | Intel Atom® x6211E | 8 GB | PCAP        | 2   | 2      | 4/4   | 12/24 VDC   | IP66 (front),<br>IP20 (rear) | -30 to 60°C     |
| MPC-3120W-E4-T    | 12.1" (16:10)<br>1000 nits | Intel Atom® x6211E | 8 GB | PCAP        | 2   | 2      | 4/4   | 12/24 VDC   | IP66 (front),<br>IP20 (rear) | -30 to 60°C     |
| MPC-3120W-E4-LB-T | 12.1" (16:10)<br>400 nits  | Intel Atom® x6211E | 8 GB | PCAP        | 2   | 2      | 4/4   | 12/24 VDC   | IP66 (front),<br>IP20 (rear) | -30 to 60°C     |

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