

BXP-A101 系列

配備 Intel Atom® x6211E/x6425E 處理器的小巧嵌入式電腦



特色與優點

- 無風扇設計的嵌入式電腦
- Intel Atom® X 系列處理器
- 小巧尺寸，適用於大多數現場應用
- -30 至 70°C 操作溫度範圍
- 雙儲存裝置，附帶可拆式外蓋設計，便於維護

認證

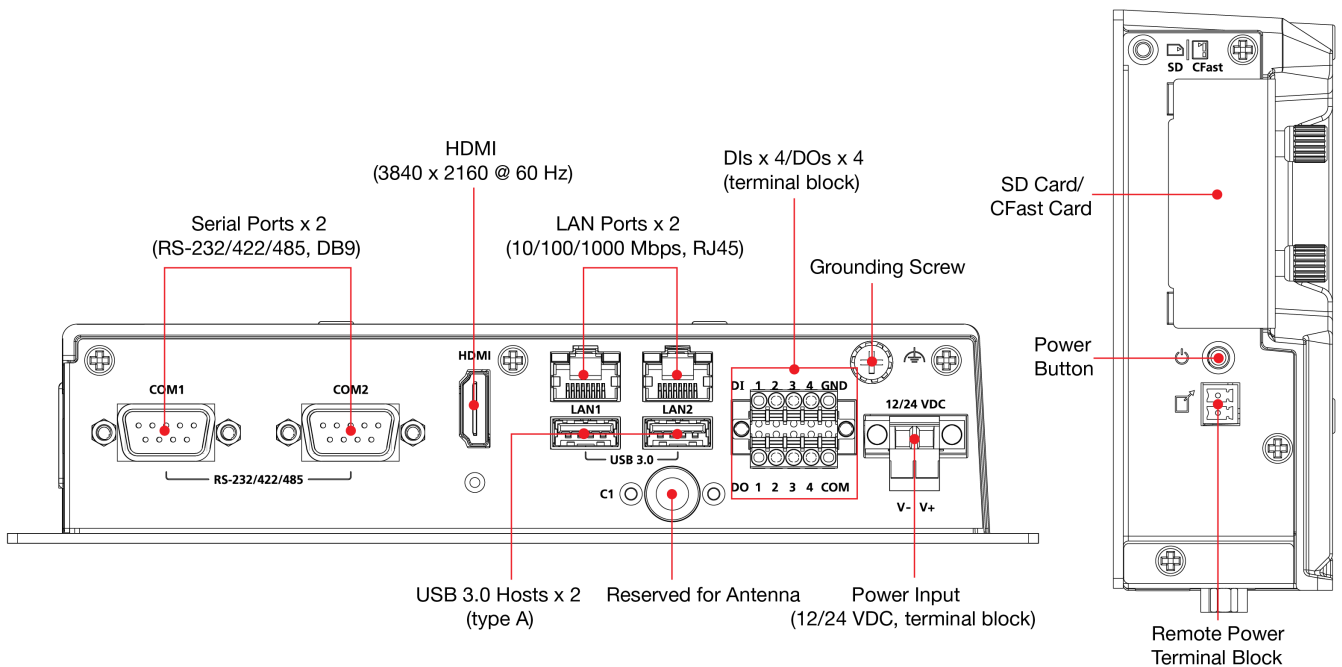


簡介

BXP-A101 壁掛式電腦由 Intel Atom® X 系列處理器驅動。電腦隨附 2 個軟體可選擇的 RS-232/422/485 序列連接埠、2 個 Gigabit 乙太網路連接埠、4 個數位輸入及 4 個數位輸出。雙儲存裝置設計包含 CFAST 與 SD 插槽，可輕鬆擴充儲存空間。可拆式外蓋設計可讓使用者快速輕鬆地在任何地點更換儲存裝置，並在可靠、耐用及多樣化平台中提供一種更易於使用的功能。

小巧可壁掛的 BXP-A101 電腦採用無風扇設計，可承受 -30 至 70°C 的溫度範圍，使其非常適合嚴酷的操作環境。內建 TPM 2.0 模組可防止平台遭受未經授權的存取。BXP-A101 是一種智慧型運算解決方案，可完美滿足工業環境的 OT 與 IT 需求。

外觀



規格

Computer

CPU	BXP-A101-E2-T: Intel Atom® x6211E processor (dual-core, 1.5 M cache, 1.30 GHz) BXP-A101-E4-T: Intel Atom® x6425E processor (quad-core, 1.5 M cache, 2.00 GHz)
System Memory Slot	SODIMM DDR4 slots x 1, up to 32 GB max.
System Memory Pre-installed	8 GB DDR4
Storage Slot	CFast slot x 1 (SATAIII interface) SD slots x 1, SD 3.0 interface (SDHC/SDXC)
Expansion Slots	mPCIe slots x 1
Supported OS	Windows images and drivers supported: - Windows 10 IoT Enterprise LTSC 2021 64-bit Linux image supported: - Debian 12 (kernel 6.10) Linux drivers supported: - Debian 12 (kernel 6.10) - Ubuntu 22.04 LTS (kernel 5.15) - RHEL 9 (kernel 5.14)
Graphics Controller	Intel® UHD Graphics

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
Digital Output	DOs x 4
TPM	TPM v2.0
Video Output	HDMI 1.2a x 1, (type-A connector)
SIM Format	Nano
Number of SIMs	1
Buttons	Power button

Ethernet Interface

Magnetic Isolation Protection	1.5 kV (built-in)
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Serial Interface

Baudrate	50 bps to 115.2 kbps
Connector	DB9 male
Data Bits	5, 6, 7, 8
Parity	None, Even, Odd, Space, Mark
Stop Bits	1, 1.5, 2
Flow Control	RTS/CTS, XON/XOFF, Automatic Data Direction Control (ADDC) for RS-485, RTS Toggle (RS-232 only)

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

Digital Inputs

Connector	Spring-type Euroblock terminal
Sensor Type	Dry contact Wet contact (NPN)
Dry Contact	Logic 0: Close to GND Logic 1: Open
Wet Contact (COM to DI)	Logic 0: 10 to 30 VDC Logic 1: 3 VDC max

Digital Outputs

Connector	Spring-type Euroblock terminal
I/O Type	Sink
Current Rating	200 mA per channel
Voltage	Logic 0: 200mA max. per channel, sink Logic 1: 24 VDC (typ.), 30 VDC (max.), open collector

LED Indicators

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

Power Parameters

Input Voltage	12/24 VDC
Power Connector	Screw-fastened Euroblock terminal
Power Consumption	50 W

Physical Characteristics

Housing	Metal
IP Rating	IP20
Dimensions	207 x 116.1 x 44.5 mm (8.14 x 4.57 x 1.75 in)
Installation	Wall mounting
Weight	1,225 g (2.7 lb)

Environmental Limits

Operating Temperature	-30 to 70°C (-22 to 158°F)
Storage Temperature	-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 BSMI
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 0.5 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 0.5 kV, Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF: 1 A/m at 50 to 60 Hz
Safety	BSMI IEC 62368-1 UL 62368-1
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-64
Package Drop Test	ISTA 1A
Package Vibration Test	ISTA 1A

Declaration

Green Product	RoHS, CRoHS, WEEE
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Reliability

Time Source	Built-in RTC (real-time clock) with lithium-battery backup
Automatic Reboot Trigger	Built-in WDT

MTBF

Time	1,581,038 hrs
Standards	Telcordia (Bellcore), GB

Warranty

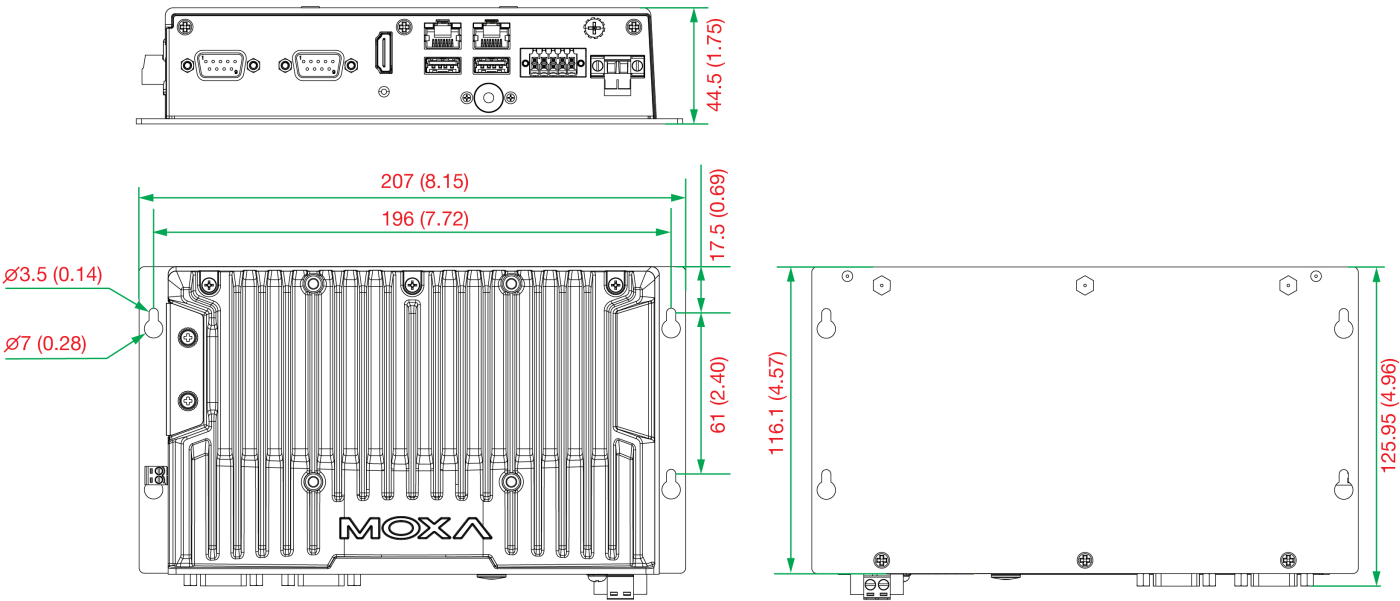
Warranty Period	3 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x BXP-A101 Series computer
Installation Kit	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 connecting a power button extension
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	CPU	Memory	Storage Slots	OS Preinstalled	LAN/Serial	USB 3.0	DIs/ DOs	Video Outputs	Power Input
BXP-A101-E2-T	Intel Atom® x6211E	8 GB	1 x CFast 1 x SD	–	2/2	2	4 x DIs 4 x DOs	1 x HDMI	12/24 VDC
BXP-A101-E4-T	Intel Atom® x6425E	8 GB	1 x CFast 1 x SD	–	2/2	2	4 x DIs 4 x DOs	1 x HDMI	12/24 VDC

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