

UC-1200A 系列

Arm Cortex-A53 雙核心 64 位元 1 GHz 工業電腦，包含 1 mPCIe 擴充插槽，-40 至 60°C 操作溫度



特色與優點

- Armv8 Cortex-A53 雙核心 1 GHz 處理器
- 2 個自動感應 10/100/1000 Mbps 乙太網路連接埠
- 豐富的可程控 LED 以及可程控按鈕組，可輕鬆安裝及維護
- 適用無線模組的 Mini-PCIe 插槽
- -40°C 至 60°C 操作溫度範圍
- 長期 Linux 支援至 2031 年；包括錯誤修復和安全修補

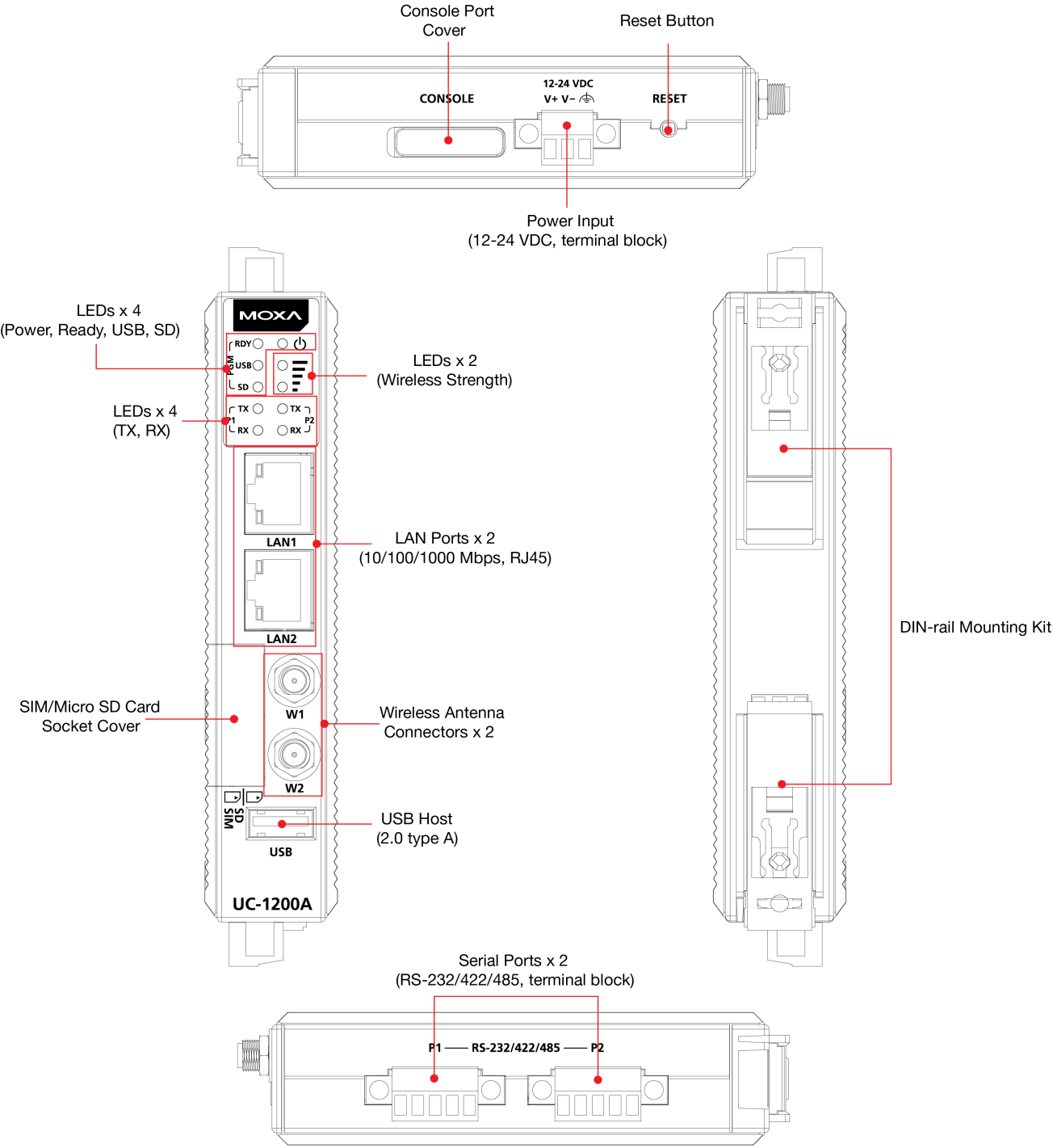
認證



簡介

UC-1200A 運算平台是專為嵌入式 資料擷取應用所設計。電腦配備雙 RS-232/422/485 串列埠和雙 10/100/1000 Mbps 乙太網路連接埠，以及 Mini PCIe 插槽以支援無線模組。這些多元功能 讓使用者能有效地調整 UC-1200A 以適應各種複雜通訊 解決方案。

UC-1200A 採用的是專為能源監視系統進行最佳化 的 Cortex-A53 處理器，但是該處理器目前 已被廣泛地用於各種工業解決方案。這款輕薄的嵌入式電腦 是可靠且安全的閘道，具備彈性的介面選項，可協助您在現場進行資料擷取並進行處理，同時也是適用於許多其他大規模部署的實用通訊平台。



規格

Computer	
CPU	Armv8 Cortex-A53 dual-core 1GHz
DRAM	2 GB DDR4
Pre-installed OS	Moxa Industrial Linux (Debian 11, kernel 5.10), 2031 EOL See www.moxa.com/MIL
Storage Pre-installed	16 GB eMMC
Storage Slot	micro SD slots x 1

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 (terminal block)
USB 2.0	USB 2.0 hosts x 1, type-A connectors
Console Port	RS-232 (TxD, RxD, GND), 4-pin header output (115200, n, 8, 1)
Expansion Slots	mPCIe slots x 1
Number of SIMs	1
SIM Format	Nano
Buttons	Reset button
TPM	TPM v2.0

Ethernet Interface

Ethernet Ports	Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 2
Magnetic Isolation Protection	1.5 kV (built-in)

Serial Interface

Baudrate	300 bps to 921.6 kbps
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, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND

LED Indicators

System	Power x 1 SW ready (programmable) USB (programmable) x 1 Micro SD slot (programmable) x 1 Serial Port: TX x 2, RX x 2
Wireless Signal Strength	Cellular x 2; programmable Disconnected: None Very Poor Signal: 1 LED (blinking) Poor Signal: 1 LED Good Signal: 2 LEDs

Power Parameters

Input Current	600 mA @ 12 VDC 300 mA @ 24 VDC
Input Voltage	12 to 24 VDC
Power Consumption	4.5 W (minimum; without external USB device attached) 7.2 W (maximum; with external USB device attached)

Reliability

Alert Tools	External RTC (real-time clock) External WDT (watchdog timer)
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Physical Characteristics

Dimensions	101 x 27 x 128 mm (3.98 x 1.06 x 5.04 in)
Weight	224 g (0.5 lb)
Housing	Polycarbonate (PC)
Installation	DIN-rail mounting Wall mounting (with optional kit)

Environmental Limits

Operating Temperature	-40 to 60°C (-40 to 140°F)
Storage Temperature (package included)	-40 to 80°C (-40 to 176°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Shock	IEC 60068-2-27
Vibration	2 Grms @ IEC 60068-2-64, random wave, 5-500 Hz, 1 hr per axis (without USB devices attached)

Standards and Certifications

EMC	EN 55032/35 EN 61000-6-2/-6-4
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-3 RS: 1.4 GHz to 6 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 1 kV IEC 61000-4-5 L-PE: 1 kV ; L -L: 0.5 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Safety	EN 62368-1 UL 62368-1
Hazardous Locations	ATEX Class I Division 2
International Approval	RCM KC BSMI
Green Product	RoHS, CRoHS, WEEE

MTBF

Time	924,676 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

Warranty

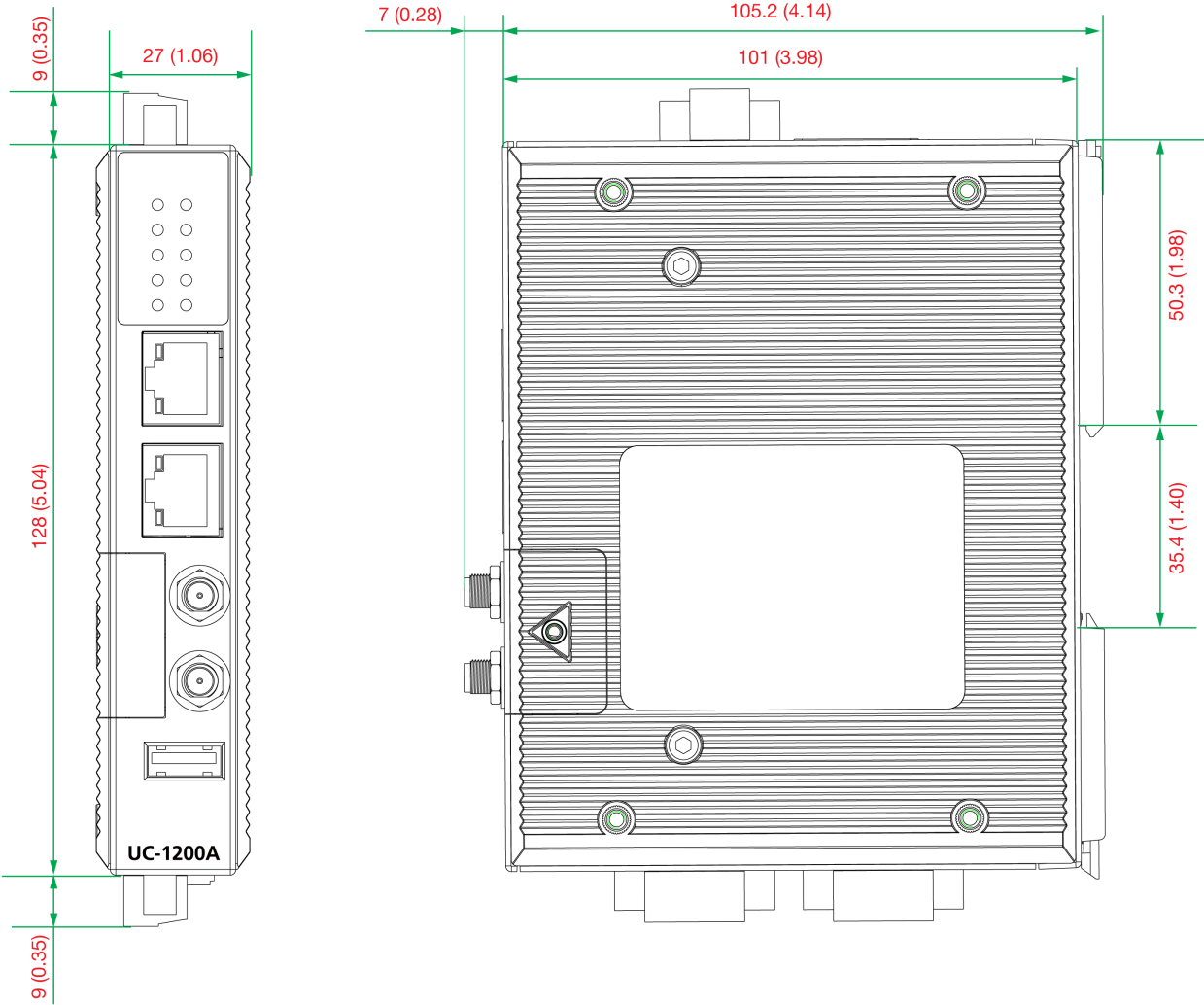
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x UC-1200A Series computer
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	RAM	Storage	Storage Slot	mPCIe Socket for Wireless Module	Serial Ports
UC-1222A	Armv8 Cortex-A53 dual-core 1GHz 300 MHz	2 GB	16 GB eMMC	micro SD card	1	2

配件 (選購)

Power Adapters

PWR-12150-USJP-SA-T	Locking barrel plug, 12 VDC 1.5 A, 100 to 240 VAC, US/JP plug, -40 to 75°C operating temperature
PWR-12150-CN-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, CN plug, -40 to 75°C operating temperature
PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, AU plug, -40 to 75°C operating temperature
PWR-12150-EU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, EU plug, -40 to 75°C operating temperature
PWR-12150-UK-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, UK plug, -40 to 75°C operating temperature

Cables

CBL-F9DPF1x4-BK-100	Console cable with 4-pin connector, 1 m
CBL-PJTB-10	Non-locking barrel plug to bare-wire cable

Antennas

ANT-WDB-ARM-0405	2.4/5 GHz 1/2 λ 4 to 5 dBi omnidirectional antenna with RP-SMA (female) connector
ANT-WDB-ARM-0202	2 dBi at 2.4 GHz or 2 dBi at 5 GHz, RP-SMA (male), dual-band, omnidirectional antenna
ANT-LTE-ASM-05 BK	704-960/1710-2620 MHz, LTE stick antenna, 5 dBi
ANT-LTE-ASM-04 BK	704 to 960/1710 to 2620 MHz, LTE omnidirectional stick antenna, 4.5 dBi
ANT-LTEUS-ASM-01	GSM/GPRS/EDGE/UMTS/HSPA/LTE, 1 dBi, omnidirectional rubber-duck antenna
ANT-LTE-OSM-06-3m BK MIMO	Multiband antenna with screw-fastened mounting option for 700-2700/2400-2500/5150-5850 MHz frequencies
ANT-LTE-OSM-03-3m BK	700-2700 MHz, multiband antenna, specifically designed for 2G, 3G, and 4G applications, 3 m cable
ANT-LTEUS-OSM-02	698 to 960/1710 to 2700 MHz, 1/4 λ omnidirectional 1.5 dBi antenna with SMA (male) connector

Wireless Antenna Cables

A-CRF-SMIF-100	Wireless antenna cable package with 2 100-cm cables (SMA connectors)
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Wall-Mounting Kits

WK-33-01	Wall-mounting kit with 2 plates (98.6 x 33.8 x 5 mm), 4 TMS M3 4-mm screws
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