

UC-8100A-ME-T 系列

Arm Cortex-A8 1GHz 的內建 LTE Cat.4 IIoT 閘道，操作溫度為 -40 至 70° C



特色與優點

- Armv7 Cortex-A8 1000 Mhz 處理器
- 兩個自動感應 10/100 Mbps 乙太網路連接埠
- 用於儲存裝置擴充的 SD 卡插槽
- 配備可控 LED 以及可控按鈕，讓您輕鬆地完成安裝與維護
- LTE 規格電腦，獲得 Verizon/AT&T 認證以及工業級 CE/FCC/UL 認證
- -40 到 70°C 寬溫度範圍，已啟用 LTE
- 提供長期 Linux 支援至 2027 年，包含錯誤修正與安全性修補程式

認證



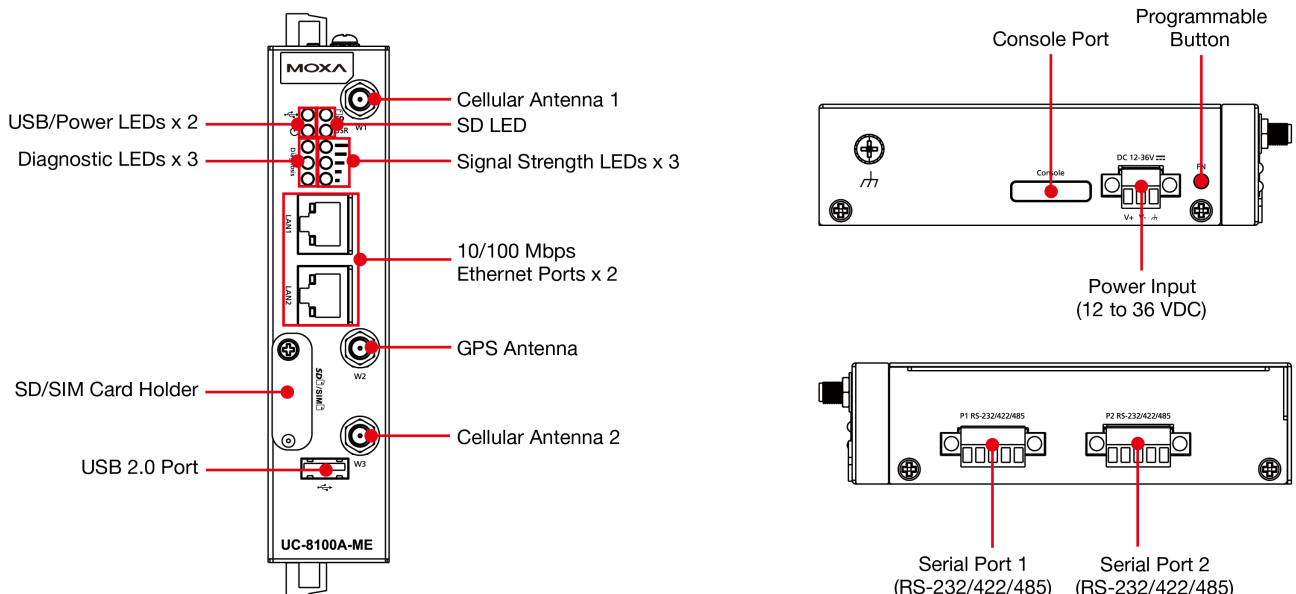
簡介

UC-8100A-ME-T 運算平台專為嵌入式資料擷取應用所設計。此電腦配備雙 RS-232/422/485 串列埠與雙 10/100 Mbps 乙太網路埠，可協助使用者將 UC-8100A-ME-T 有效應用於各種複雜的通訊解決方案。

UC-8100A-ME-T 以 Cortex-A8 處理器為核心，該處理器已針對能源監控系統進行最佳化，同時也廣泛適用於多種工業解決方案。憑藉彈性的介面選擇，這款微型嵌入式電腦不僅是現場端資料擷取與處理的可靠安全閘道，也是其他多種大規模部署中實用的通訊平台。

提供寬溫與 LTE 機型選擇。所有產品皆於測試實驗室中經過嚴格驗證，確保 LTE 運算平台可在寬溫應用環境中穩定運作。

外觀



規格

Computer

CPU	Armv7 Cortex-A8 1 GHz
DRAM	1 GB DDR3

Supported OS	Moxa Industrial Linux 1 (Debian 9, kernel 4.4), 2027 EOL See www.moxa.com/MIL
Storage Pre-installed	8 GB eMMC
Storage Slot	SD slots x 1

Computer Interface

Ethernet Ports	Auto-sensing 10/100 Mbps ports (RJ45 connector) x 2
Serial Channels	RS-232/422/485 ports x 2 (software-selectable, DB9 male connector)
Expansion Slots	mPCIe slots x 1
Console Port	RS-232 (TxD, RxD, GND), 4-pin header output (115200, n, 8, 1)
USB 2.0	USB 2.0 hosts x 1, type-A connectors
Number of SIMs	1
SIM Format	Mini
Buttons	Reset button
TPM	TPM v2.0

Ethernet Interface

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

Baudrate	300 bps to 921.6 kbps
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	RTS/CTS, XON/XOFF ADDC (automatic data direction control) 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

LED Indicators

System	Power x 1 Programmable x 1 SD slots x 1 USB x 1, Diagnostic x 3
Wireless Signal Strength	Cellular/Wi-Fi x 3

Power Parameters

Input Current	500 mA @ 12 VDC
Input Voltage	12 to 36 VDC
Power Consumption	6 W

Reliability

Alert Tools	External RTC (real-time clock)
Automatic Reboot Trigger	External WDT (watchdog timer)

Physical Characteristics

Dimensions	141 x 125.6 x 33 mm (5.55 x 4.94 x 1.3 in)
Weight	550 g (1.22 lb)
Housing	Metal
Installation	DIN-rail mounting Wall mounting (with optional kit)

Environmental Limits

Operating Temperature	-40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°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
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 5 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 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
Hazardous Locations	Class I Division 2 ATEX IECEx
Safety	UL 62368-1, EN 62368-1
Carrier Approvals	AT&T Verizon
Green Product	RoHS, CRoHS, WEEE

MTBF

Time	868,326 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

Warranty

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

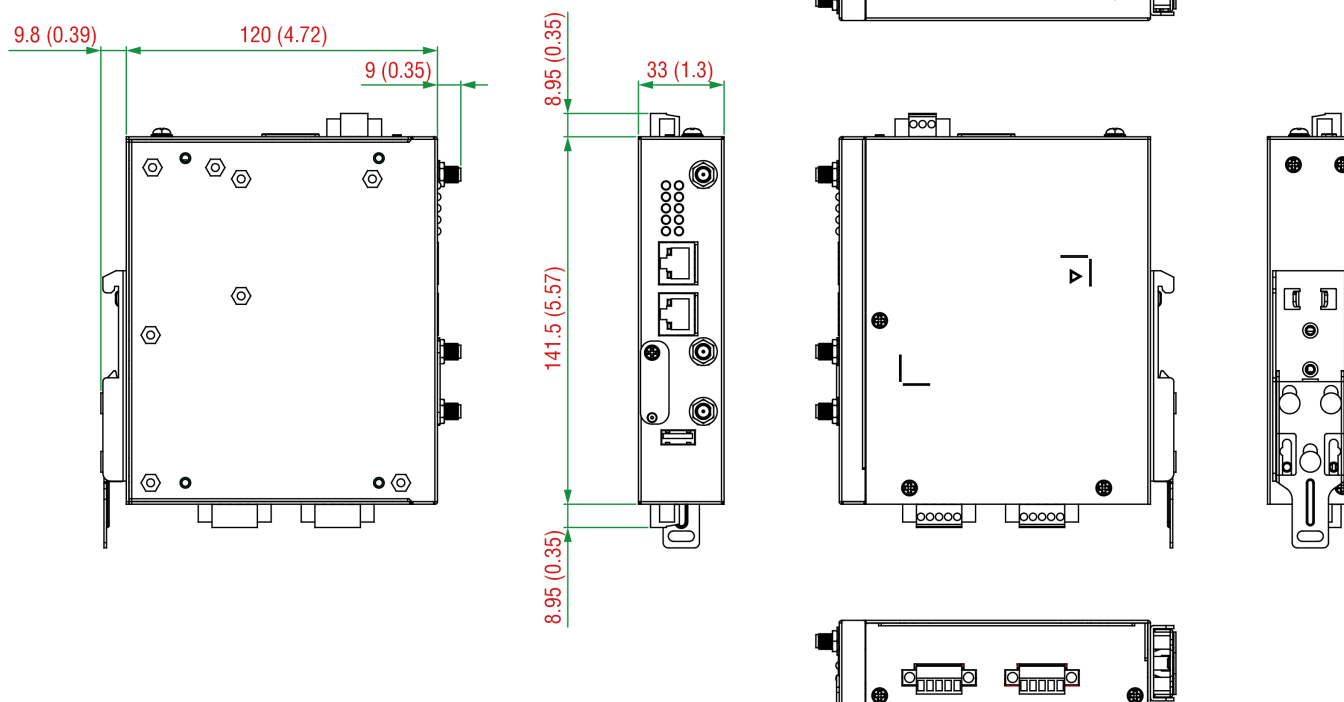
Package Contents

Device	1 x UC-8100A-ME-T Series computer
Cable	1 x console cable

Installation Kit	1 x DIN-rail kit (preinstalled) 1 x power jack
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	LTE	Operating Temp.
UC-8112A-ME-T-LX	1 GHz	1 GB	8 GB	–	-40 to 85°C

配件（選購）

Power Adapters

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

Cables

CBL-F9DPF1x4-BK-100	Console cable with 4-pin connector, 1 m
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DIN-Rail Mounting Kits

UC-8100A-ME DIN-Rail Kit	DIN-rail mounting kit for UC-8100A-ME-T Series
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Wall-Mounting Kits

UC-8100A-ME Wall Mount Kit	Wall-mounting kit for UC-8100A-ME-T Series
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