

# UC-8100A-ME-T 系列

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



## 特色與優點

- Armv7 Cortex-A8 1000 Mhz 處理器
- Moxa 工業 Linux，提供 10 年長期支援
- 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
- 配備可程控 LED 以及可程控按鈕，讓您輕鬆地完成安裝與維護
- 適用無線模組的 Mini-PCIe 插槽
- 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

## 認證



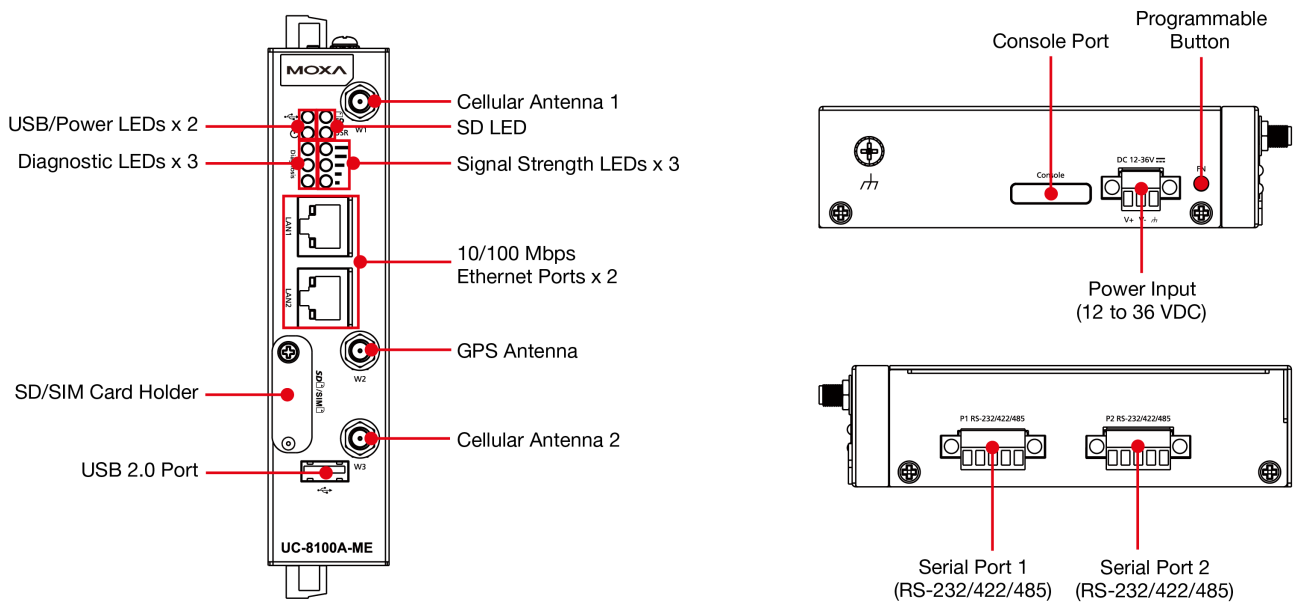
## 簡介

UC-8100A-ME-T 運算平台專為內嵌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 Mbps 乙太網路連接埠，以及 Mini PCIe 插槽以支援行動通訊模組。這些多元功能讓使用者能有效地調整 UC-8100A-ME-T 以適應各種複雜通訊解決方案。

UC-8100A-ME-T 採用的是專為能源監視系統進行最佳化的 Cortex-A8 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。

備有已啟用 LTE 的寬溫度型號供您選擇。所有裝置全都在試驗室中經過完整測試，保證已啟用 LTE 的運算平台適用於寬溫應用。

## 外觀



## 規格

### Computer

CPU	Armv7 Cortex-A8 1 GHz
Pre-installed OS	Moxa Industrial Linux (Debian 9, Kernel 4.4) See <a href="http://www.moxa.com/MIL">www.moxa.com/MIL</a>
DRAM	1 GB DDR3
Storage Pre-installed	8 GB eMMC
Storage Slot	SD slots x 1

### Computer Interface

TPM	TPM v2.0
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	UC-8112A-ME-T-LX: mPCIe slot x 1
Number of SIMs	1
SIM Format	Mini
Buttons	Reset button
Serial Ports	RS-232/422/485 ports x 2, software-selectable (terminal block)
Cellular Antenna Connector	SMA x 2
GPS Antenna Connector	SMA x 1

### Ethernet Interface

Ethernet Ports	Auto-sensing 10/100 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

### 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

## Cellular Interface

Band Options	<p>US model: LTE Bands: Band 2 (1900 MHz) / Band 4 (1700 MHz) / Band 5 (850 MHz) / Band 13 (700 MHz) / Band 17 (700 MHz) UMTS Bands: Band 2 (1900 MHz) / Band 5 (850 MHz) Carrier Approval: Verizon, AT&amp;T</p> <p>EU model: LTE Bands: Band 1 (2100 MHz) / Band 3 (1800 MHz) / Band 5 (850 MHz) / Band 7 (2600 MHz) / Band 8 (900 MHz) / LTE Band 20 (800 MHz) UMTS Bands: Band 1 (2100 MHz) / Band 2 (1900 MHz) / Band 5 (850 MHz) / Band 8 (900 MHz)</p> <p>AP model: LTE Bands: Band 1 (2100 MHz) / Band 3 (1800 MHz) / Band 5 (850 MHz) / Band 7 (2600 MHz) / Band 8 (900 MHz) / Band 28 (700 MHz) UMTS Bands: Band 1 (2100 MHz) / Band 2 (1900 MHz) / Band 5 (850 MHz) / Band 8 (900 MHz)</p>
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## GPS Interface

Receiver Types	72-channel u-blox M8 engine GPS/GLONASS/Galileo
Accuracy	Position: 2.5 m CEP SBAS: 2.0 m CEP
Acquisition	Aided starts: 3 sec Cold starts: 26 sec
Sensitivity	Cold starts: -148 dBm Tracking: -164 dBm
Time Pulse	0.25 Hz to 10 MHz

## 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	UC-8112A-ME-T-LX: 500 mA @ 12 VDC All other models: 700 mA @ 12 VDC
Input Voltage	12 to 36 VDC
Power Consumption	UC-8112A-ME-T-LX: 6 W All other models: 8 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)
Housing	Metal
Installation	DIN-rail mounting Wall mounting (with optional kit)
Weight	550 g (1.22 lb)

## Environmental Limits

Ambient Relative Humidity	5 to 95% (non-condensing)
Operating Temperature	UC-8112A-ME-T-LX: -40 to 85°C (-40 to 185°F) UC-8112A-ME-T-LX-AP: -40 to 70°C (-40 to 158°F) UC-8112A-ME-T-LX-US: -40 to 70°C (-40 to 158°F) UC-8112A-ME-T-LX-EU: -40 to 70°C (-40 to 158°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
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 61000-4-6 CS: 3 V IEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 1 kV IEC 61000-4-8 PFMF
Safety	UL 62368-1, EN 62368-1
Hazardous Locations	Class I Division 2 ATEX IECEX
Carrier Approvals	AT&T Verizon
Green Product	RoHS, CRoHS, WEEE

## MTBF

Time	UC-8112A-ME-T-LX: 868,326 hrs UC-8112A-ME-T-LX-US: 677,570 hrs UC-8112A-ME-T-LX-EU: 677,570 hrs UC-8112A-ME-T-LX-AP: 677,570 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

## Warranty

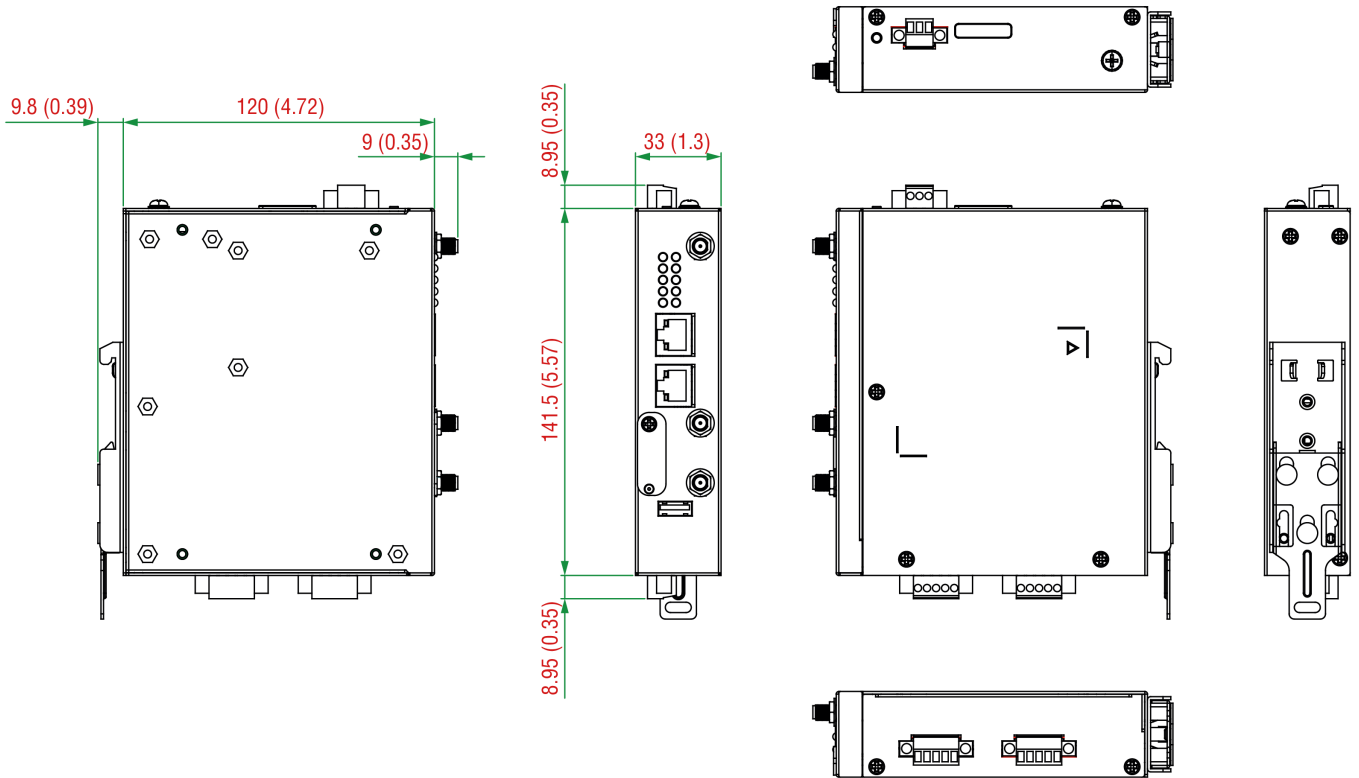
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a>

## Package Contents

Device	1 x UC-8100A-ME-T Series computer
Cable	1 x console cable
Documentation	1 x quick installation guide 1 x warranty card
Installation Kit	1 x DIN-rail kit (preinstalled) 1 x power jack

# 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
UC-8112A-ME-T-LX-US	1 GHz	1 GB	8 GB	US Region	-40 to 70°C
UC-8112A-ME-T-LX-EU	1 GHz	1 GB	8 GB	EU Region	-40 to 70°C
UC-8112A-ME-T-LX-AP	1 GHz	1 GB	8 GB	APAC Region	-40 to 70°C

## 配件 (選購)

### Power Adapters

PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, Australia (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, United Kingdom (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, China (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, Continental Europe (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, United States/Japan (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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### Antennas

ANT-LTE-OSM-03-3m BK	700-2700 MHz, multi-band antenna, specifically designed for 2G, 3G, and 4G applications, 3 m cable
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-ASM-05 BK	704-960/1710-2620 MHz, LTE stick antenna, 5 dBi
ANT-LTE-ASM-04 BK	704-960/1710-2620 MHz, LTE omni-directional stick antenna, 4.5 dBi
ANT-LTEUS-ASM-01	GSM/GPRS/EDGE/UMTS/HSPA/LTE, omni-directional rubber duck antenna, 1 dBi

#### 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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