

UC-8100-ME-T 系列

Arm Cortex-A8 1 GHz IIoT 閘道



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
- 配備可程控 LED 以及可程控按鈕，讓您輕鬆地完成安裝與維護
- 網路安全功能
- Debian 9 開放式平台
- 長期支援 Linux 至 2027 年；包括錯誤修復和安全修補

認證

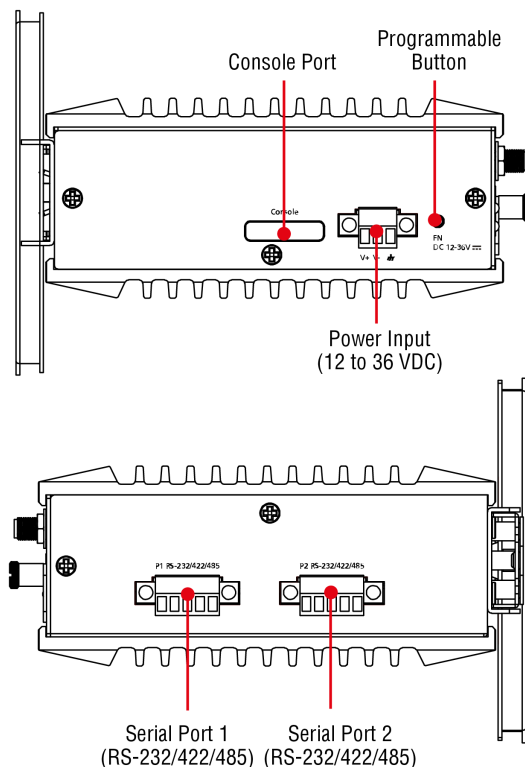
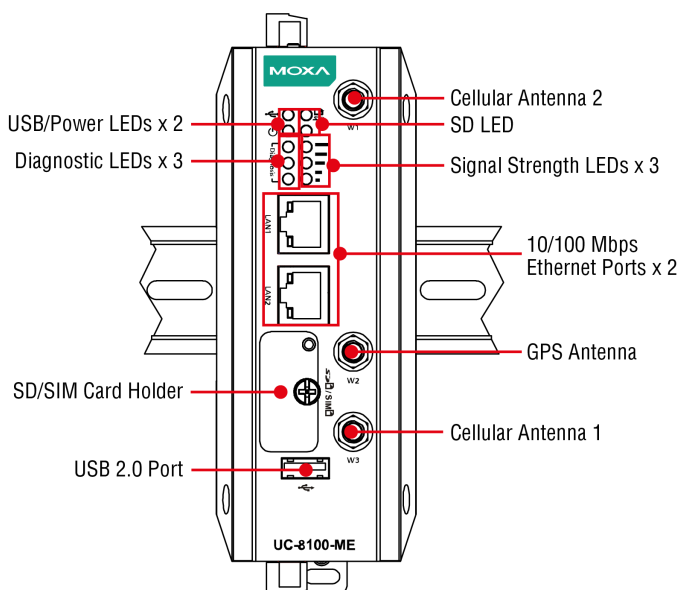


簡介

UC-8100-ME-T 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 Mbps 乙太網路連接埠。這些多元功能讓使用者能有效地調整 UC-8100-ME-T 以適應各種複雜通訊解決方案。

UC-8100-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。

外觀



規格

Computer

CPU	Armv7 Cortex-A8 1 GHz
DRAM	UC-8112-ME-T-LX: 512 MB DDR3 UC-8112-ME-T-LX1: 1 GB DDR3
Storage Pre-installed	8 GB eMMC
Supported OS	Moxa Industrial Linux 1 (Debian 9, kernel 4.4), 2027 EOL See www.moxa.com/MIL

Computer Interface

Ethernet Ports	Auto-sensing 10/100 Mbps ports (RJ45 connector) x 2
Serial Ports	RS-232/422/485 ports x 2, software selectable (RJ45)
USB 2.0	USB 2.0 hosts x 1, type-A connectors
Number of SIMs	1
SIM Format	Mini
Buttons	Reset button

Ethernet Interface

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

LED Indicators

System	Power x 1 SD slots x 1 Programmable x 4
Wireless Signal Strength	Cellular/Wi-Fi x 3

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)
Console Port	1 x 4-pin header to DB9 console port

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

Power Parameters

Input Voltage	12 to 36 VDC
Input Current	500 mA @ 12 VAC
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 54.8 mm (5.55 x 4.94 x 2.15 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)
Vibration	2 Grms @ IEC 60068-2-64, random wave, 5-500 Hz, 1 hr per axis (without USB devices attached)
Shock	IEC 60068-2-27

Standards and Certifications

EMC	EN 55032/35
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Safety	UL 60950-1
Hazardous Locations	Class I Division 2
Green Product	RoHS, CRoHS, WEEE

MTBF

Time	535,916 hrs
Standards	Telcordia (Bellcore) Standard

Warranty

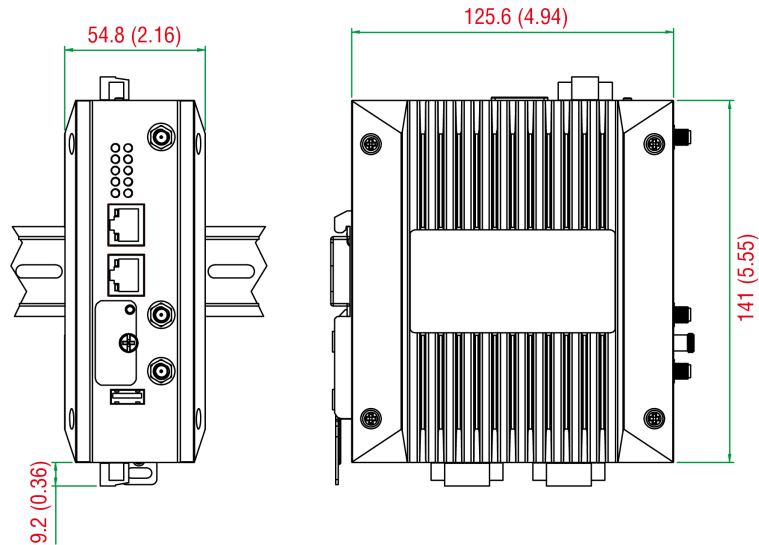
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x UC-8100-ME-T Series computer
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	US LTE Module Built-in	Operating Temp.
UC-8112-ME-T-LX	Armv7 Cortex-A8 1 GHz	512 MB	8 GB eMMC	–	-40 to 70°C
UC-8112-ME-T-LX1	Armv7 Cortex-A8 1 GHz	1 GB	8 GB eMMC	–	-40 to 85°C

配件（選購）

Power Adapters

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-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-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
---------------------	---

Wall-Mounting Kits

UC-8100-ME Wall Mount Kit	Wall-mounting kit with screws
---------------------------	-------------------------------

DIN-Rail Mounting Kits

DK-25-01	DIN-rail mounting kit, 2 screws
----------	---------------------------------

Antennas

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-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-LTE-OSM-03-3m BK	700-2700 MHz, multiband antenna, specifically designed for 2G, 3G, and 4G applications, 3 m cable

© Moxa Inc. 版權所有.2023 年 7 月 20 日更新。

未經 Moxa Inc. 明確書面許可，不得以任何方式複製或使用本文件及其任何部分。產品規格如有變更，恕不另行通知。請至本公司官網了解最新的產品資訊。