

MC-1100 系列

Intel Atom® E3800 DIN 軌道式電腦，具備危險環境認證及 DNV 認證，操作溫度範圍為 -40 至 70°C



特色與優點

- Intel Atom® 四核心 E3845 處理器
- 雙重儲存 (SD 和 CFast 插槽)
- 雙獨立顯示輸出 (VGA + DisplayPort)
- 各種介面：2 個串列埠、4 個 Giga LAN、4 個 DI、4 個 DO、2 個 USB 2.0 連接埠
- 用於 Wi-Fi、3G、LTE、GPS 的 Mini-PCle 插槽
- 12 至 36 VDC 寬範圍隔離式電源輸入
- 系統操作溫度範圍：-40 至 70°C
- 符合 DNV 海事認證及 ATEX、IECEx Zone 2 規範

認證



簡介

MC-1100 系列 DIN 軌道安裝式無風扇 x86 嵌入式電腦採用 Intel Atom® E3800 系列處理器，採用最可靠的 I/O 設計以盡可能提高連接性，並支援無線模組 (Wi-Fi/3G/LTE)，因此適用於各種通訊應用。

MC-1100 具備 -40 至 70°C 的寬操作溫度範圍，並符合安全、EMI 與 EMS 相關標準，是關鍵應用環境中智慧運算與通訊解決方案的理想平台，包括海事通訊、油氣田現場監控和運輸。

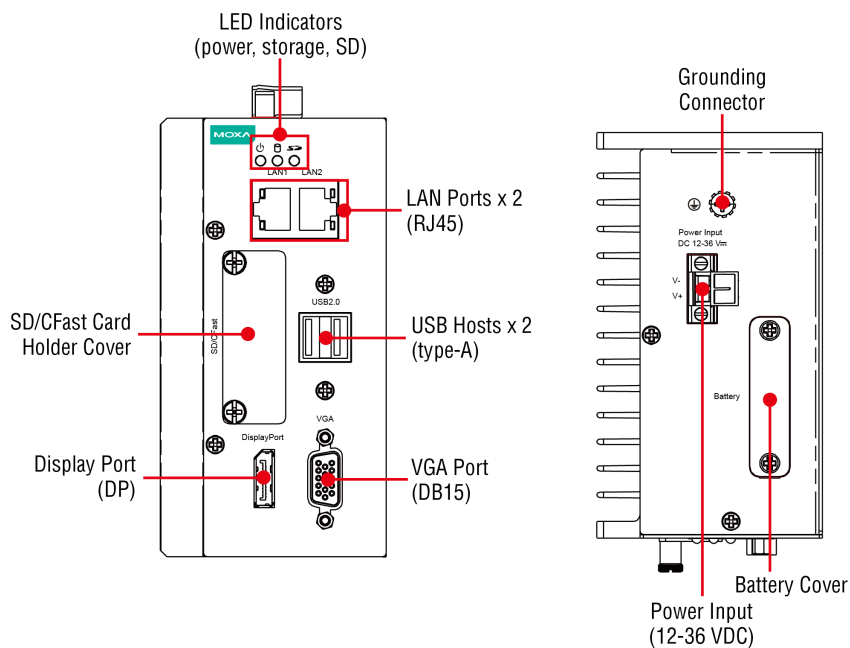
MC-1100 系列可支援「Moxa Proactive Monitoring」工具，可監控設備的 I/O 狀態並發出警報、監控系統溫度並發出警報，以及管理系統電源。持續監控系統狀態可協助系統快速從異常中復原，為您的應用提供最可靠的平台。

MC-1100 系列已通過 Microsoft Azure Certified for IoT 認證，可搭配 Microsoft 參考架構使用，並已通過測試，可與 Microsoft Azure IoT 服務整合，適用於工業物聯網 (IIoT) 應用。

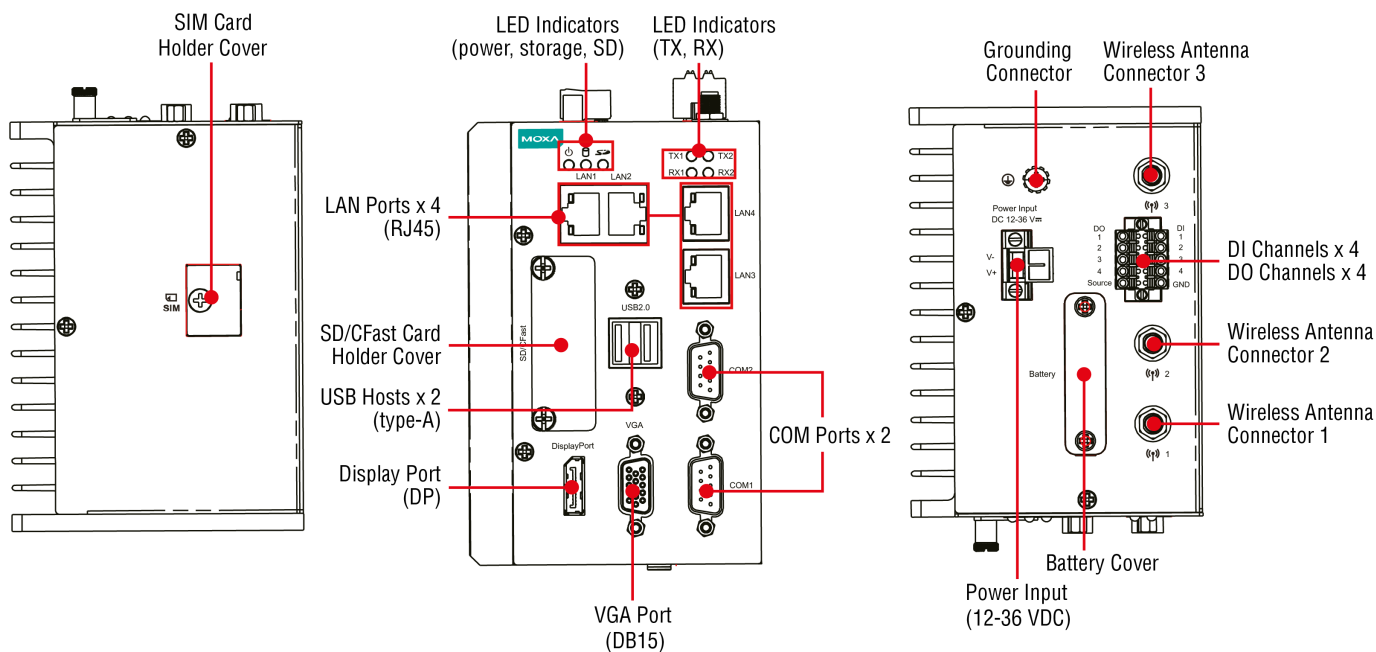
如需 Azure IoT 認證計劃的詳細資訊，請造訪：<https://catalog.azureiotsuite.com/>

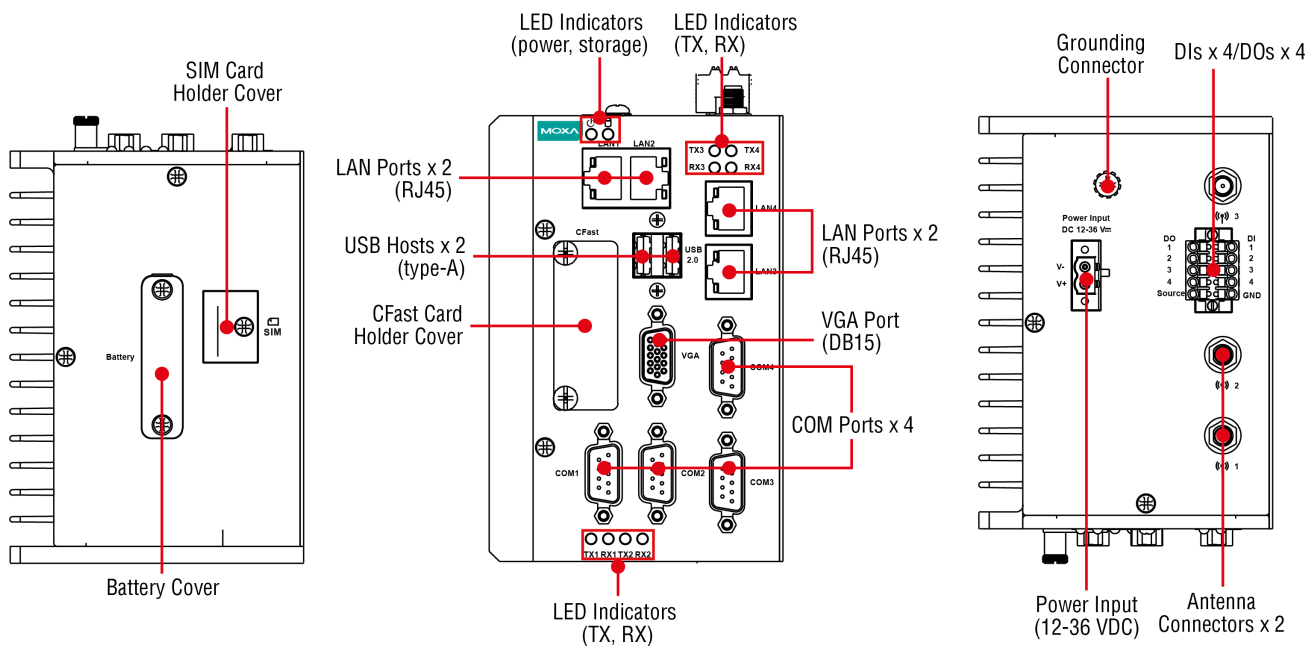
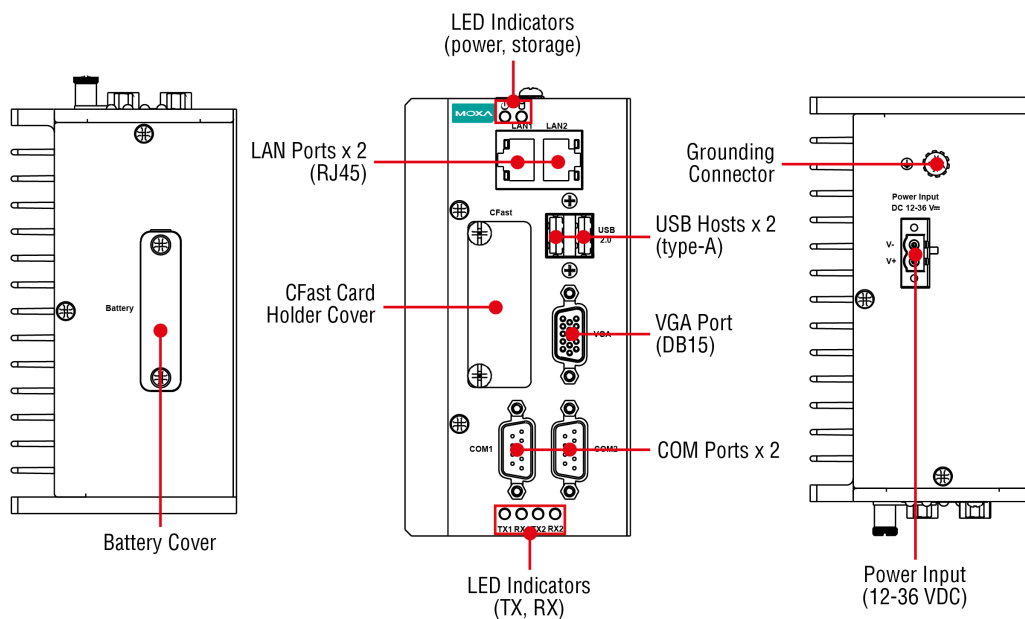
如需將 Moxa 獲得 Azure IoT 認證的產品列出的完整清單，請造訪：<https://catalog.azureiotsuite.com/?q=moxa>

MC-1111



MC-1121





規格

Computer

CPU	MC-1100-E2-T models: Intel Atom® E3826 processor (1M cache, 1.46 GHz) MC-1100-E4-T models: Intel Atom® E3845 processor (2M cache, 1.91 GHz)
Graphics Controller	Intel® HD Graphics
System Memory Pre-installed	4 GB DDR3L
System Memory Slot	SODIMM DDR3/DDR3L slots x 1
Supported OS	Windows 10 IoT Enterprise LTSC 2021 Linux Debian 9 (kernel v4.9)
Storage Slot	All models: CFast x 1 MC-1111/1121 models: SD x 1

Computer Interface

Ethernet Ports	MC-1111/1112 models: Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 2 MC-1121/1122 models: Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 4
Serial Channels	MC-1121/1112 models: RS-232/422/485 ports x 2, software-selectable (DB9 male) MC-1122 models: RS-232/422/485 ports x 4, software-selectable (DB9 male)
USB 2.0	USB 2.0 hosts x 2, type-A connectors
Digital Input	MC-1121/1122 models: DIs x 4
Digital Output	MC-1121/1122: DOs x 4
Expansion Slots	mPCIe slots x 1
TPM	TPM v1.2 (MC-1122-E4-TPM-T only)
Video Output	MC-1111/1121 models: VGA x 1, DisplayPort x 1 All models: VGA x 1, 15-pin D-sub connector (female)
Number of SIMs	MC-1121/1122 models: 1
SIM Format	MC-1121/1122 models: Mini

LED Indicators

System	Storage x 1
LAN	2 per port (10/100/1000 Mbps)
Serial	MC-1112/1121/1122 models: 2 per port (Tx, Rx)

Serial Interface

Baudrate	MC-1112/1121/122 models: 50 bps to 115.2 kbps
Connector	MC-1112/1121/122 models: DB9 male
Data Bits	MC-1112/1121/122 models: 5, 6, 7, 8
Flow Control	MC-1112/1121/122 models: Automatic Data Direction Control (ADDC) for RS-485 RTS/CTS, XON/XOFF
Isolation	MC-1112/1121/122 models: N/A
Parity	MC-1112/1121/122 models: None, Even, Odd, Space, Mark

Power Parameters

Input Voltage	11.4 to 36 VDC
Power Connector	Terminal block (for DC models)
Power Consumption	30 W (max.)

Reliability

Automatic Reboot Trigger	Built-in WDT
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Physical Characteristics

Housing	Metal
Dimensions	MC-1111/1112 models: 132 x 122 x 68 mm (5.2 x 4.81 x 2.68 in) MC-1121/1122 models: 132 x 122 x 87 mm (5.2 x 4.81 x 3.43 in)

Weight	MC-1111/1112 models: 1,022 g (2.25 lb) MC-1121/1122 models: 1,340 g (2.95 lb)
Installation	DIN-rail mounting Wall mounting (with optional kit)

Environmental Limits

Operating Temperature	-40 to 70°C (-40 to 158°F)
Storage Temperature (package included)	-45 to 75°C (-49 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 55032/35
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Hazardous Locations	All models excluding MC-1121-E4-T-US: ATEX Zone 2 IECEx Zone 2 Class I Division 2
Maritime	DNV IEC 60945 LR
Radio Frequency	FCC
Safety	UL 60950-1

Warranty

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

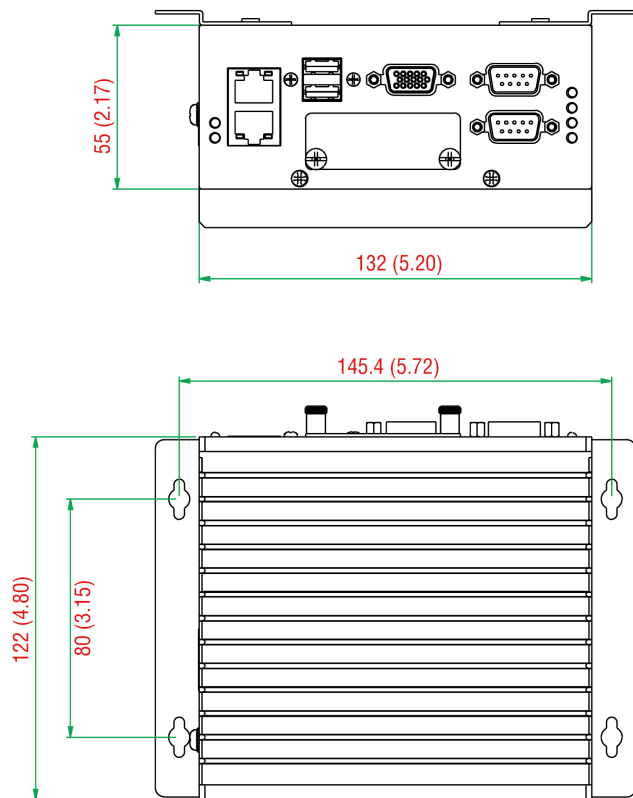
Package Contents

Device	1 x MC-1100 Series computer
Cable	1 x terminal block to power jack converter
Installation Kit	1 x terminal block, 2-pin 1 x DIN-rail kit
Documentation	1 x quick installation guide 1 x warranty card

尺寸

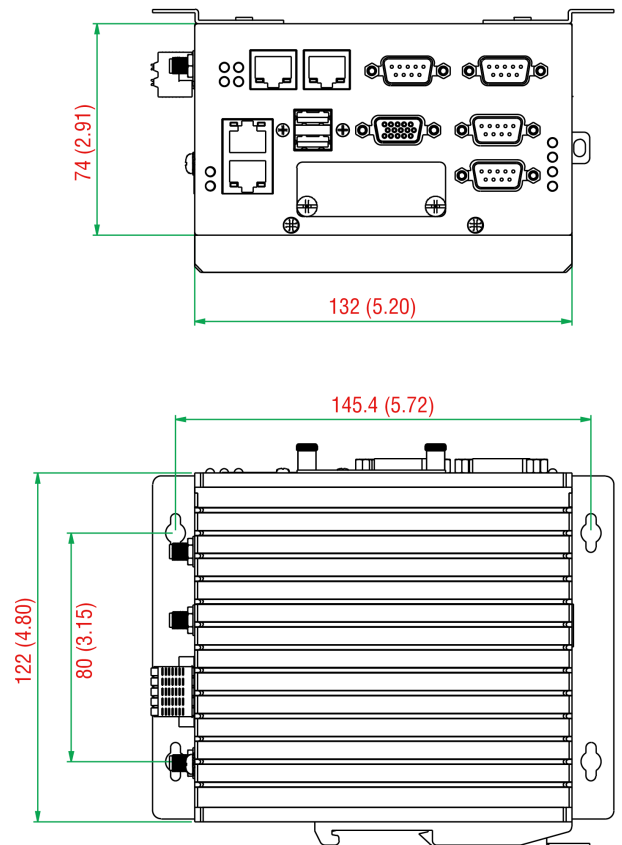
MC-1112

單位：公釐（英吋）



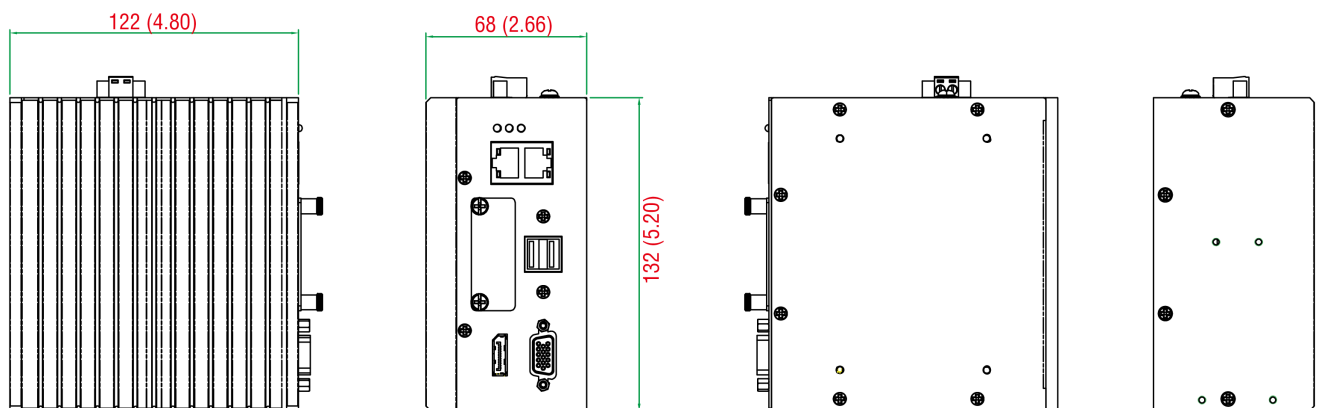
MC-1122

單位：公釐（英吋）



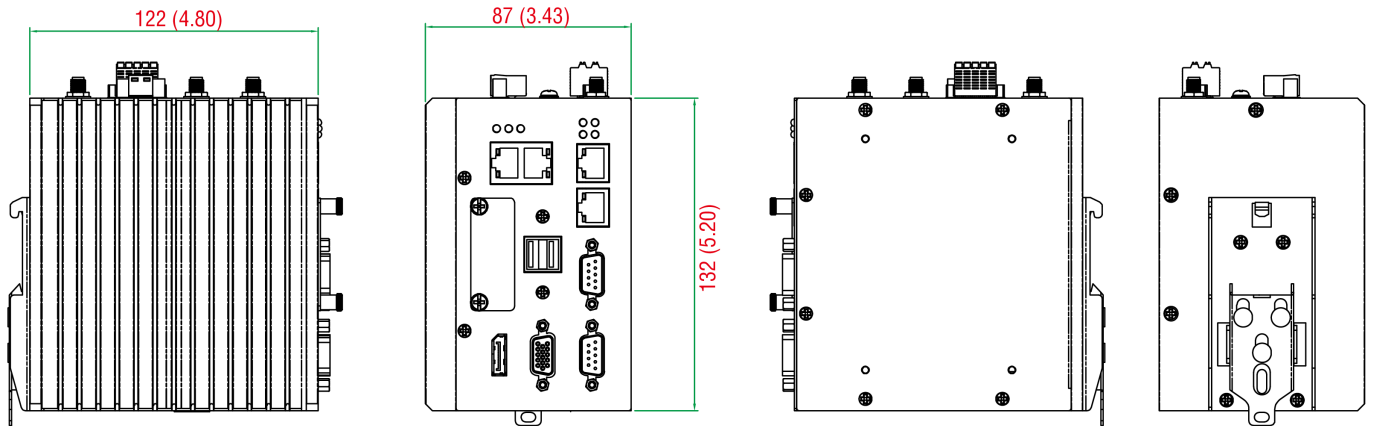
MC-1111

單位：公釐（英吋）



MC-1121

單位：公釐（英吋）



訂購資訊

Model Name	CPU	RAM	Storage Slots	OS Preinstalled	LAN/Serial	USB 2.0	Video Outputs	Interface Expansion
MC-1111-E2-T	Intel Atom® E3826	4 GB	1 x CFast 1 x SD	–	2/–	2	1 x VGA 1 x DP	–
MC-1111-E4-T	Intel Atom® E3845	4 GB	1 x CFast 1 x SD	–	2/–	2	1 x VGA 1 x DP	–
MC-1121-E2-T	Intel Atom® E3826	4 GB	1 x CFast 1 x SD	–	4/2	2	1 x VGA 1 x DP	1 x mPCIe
MC-1121-E4-T	Intel Atom® E3845	4 GB	1 x CFast 1 x SD	–	4/2	2	1 x VGA 1 x DP	1 x mPCIe
MC-1121-E4-T-W7E	Intel Atom® E3845	4 GB	1 x CFast (32 GB preinstalled) 1 x SD	WS7E	4/2	2	1 x VGA 1 x DP	1 x mPCIe
MC-1112-E2-T	Intel Atom® E3826	4 GB	1 x CFast	–	2/2	2	1 x VGA	–
MC-1112-E4-T	Intel Atom® E3845	4 GB	1 x CFast	–	2/2	2	1 x VGA	–
MC-1122-E2-T	Intel Atom® E3826	4 GB	1 x CFast	–	4/4	2	1 x VGA	1 x mPCIe
MC-1122-E4-T	Intel Atom® E3845	4 GB	1 x CFast	–	4/4	2	1 x VGA	1 x mPCIe
MC-1122-E4-TPM-T	Intel Atom® E3845	4 GB	1 x CFast	–	4/4	2	1 x VGA	1 x mPCIe

配件（選購）

Wi-Fi Wireless Modules

Wi-Fi-BGN(252NI)	Wi-Fi module with 2 antennas, antenna cables and connectors, 2 black screws, 2 lock washers, 2 nuts, 1 thermal pad
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DIN-Rail Mounting Kits

MC-1100 DIN-Rail Kit	DIN-rail mounting kit, 4 screws
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Wall-Mounting Kits

MC-1100 Wallmount Kit	Wall-mounting kit, 4 screws
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Power Cords

PWC-C7AU-2B-183	Power cord with AU plug, 2.5A/250V, 1.83 m
PWC-C7CN-2B-183	Power cord with three-prong CN plug, 2.5A/250V, 1.83 m
PWC-C7EU-2B-183	Power cord with EU plug, 2.5A/250V, 1.83 m
PWC-C7UK-2B-183	Power cord with UK plug, 2.5A/250V, 1.83 m
PWC-C7US-2B-183	Power cord with US plug, 10A/125V, 1.83 m

Power Adapters

PWR-24250-DT-S1	Desktop power supply (requires power cord), 24 VDC, 2.5 A, 100 to 240 VAC, 0 to 40°C operating temperature
PWR-24270-DT-S1	Power adapter, input voltage 90 to 264 VAC, output voltage 24 V with 2.5 A DC load

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