

搭載 NVIDIA® Jetson Orin™ 的 工業級 Edge AI 電腦

AI 邊緣運算平台



產品概述

EnGenius AI Box Series 是一系列搭載 NVIDIA® Jetson Orin™ NX 與 Jetson Orin™ Nano 模組的工業級 Edge AI 電腦，提供從高效率邊緣 AI 推論到高效能 AI 運算的可擴展 AI 算力。專為即時影像分析、智慧自動化及 AI 驅動決策而設計，可有效降低延遲、減少對雲端運算的依賴，並加速 AI 應用部署，廣泛適用於工業自動化、智慧城市、智慧交通、智慧安防及其他 Edge AI 應用場域。AI Box Series 採用堅固耐用的無風扇設計，配備豐富的工業級 I/O 介面，並提供選配 Wi-Fi 無線連線功能，可靈活滿足多元部署需求，同時降低整體建置成本。

主要功能與優勢

可擴展的 NVIDIA® Jetson Orin™ AI 運算平台

- 提供 NVIDIA® Jetson Orin™ NX 與 Orin™ Nano 平台選擇，最高可達 157 TOPS AI 算力，可依不同 AI 工作負載與部署需求選擇最適合的運算平台。

即時 Edge AI 運算

- 支援 AI 驅動的影像分析、機器視覺、智慧自動化及智慧決策，提供低延遲運算體驗，同時降低對雲端運算的依賴。

完整的工業級連接能力

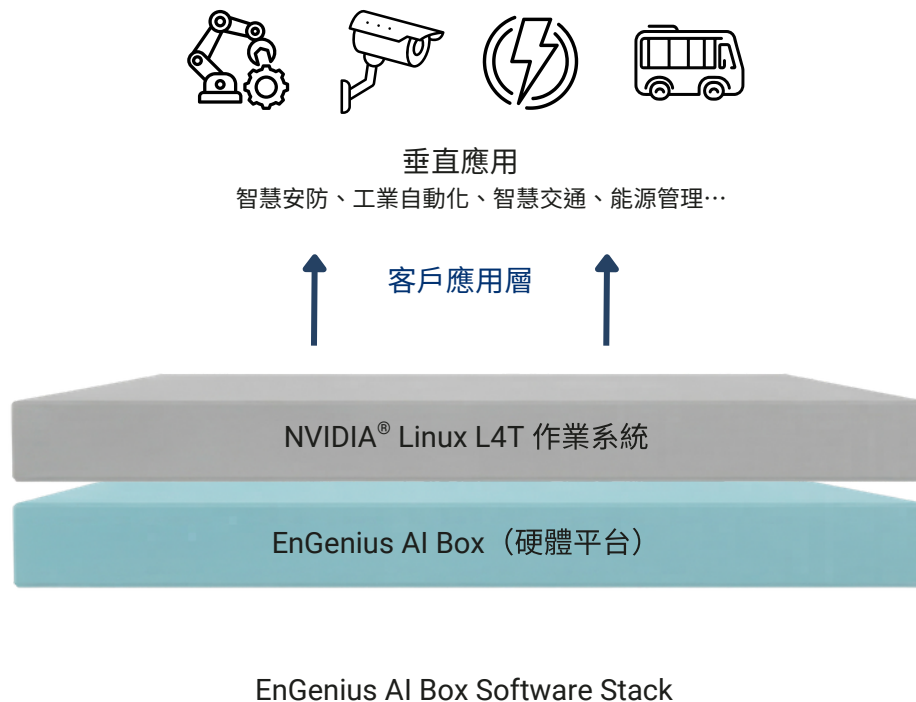
- 配備雙 Gigabit Ethernet 網路埠，並提供選配 Wi-Fi 6 與 Bluetooth® 5.2 無線連線，以及豐富的工業級 I/O 介面，可確保與既有系統的無縫整合。

專為工業級可靠性而設計

- 採用無風扇設計並支援寬溫運作，可於嚴苛環境中提供穩定且免維護的運作效能。

軟體架構

本產品提供純硬體 Edge AI 運算平台，預先安裝 NVIDIA® Linux L4T 作業系統、NVIDIA® JetPack SDK、BSP 及所有必要的硬體驅動程式，為系統整合商與 AI 軟體開發人員提供穩定且具彈性的開發環境。支援 Bring-Your-Own-AI (BYO-AI) 部署模式，讓使用者可依需求安裝並整合所偏好的 AI 框架、AI 模型及應用程式。

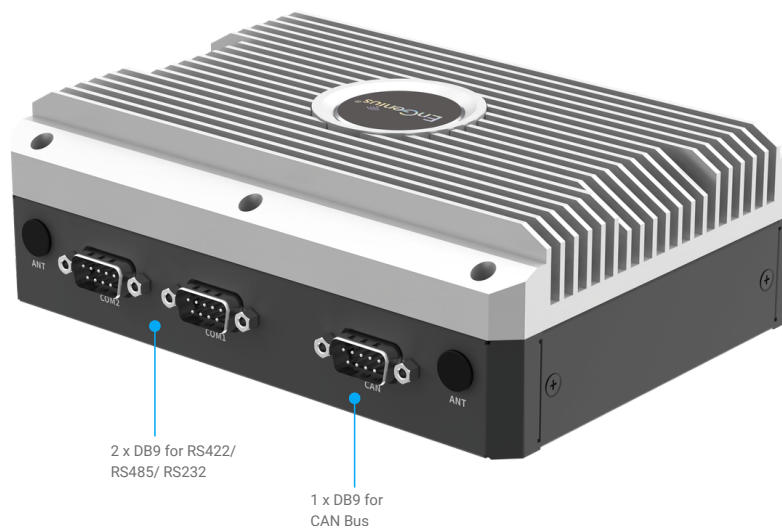
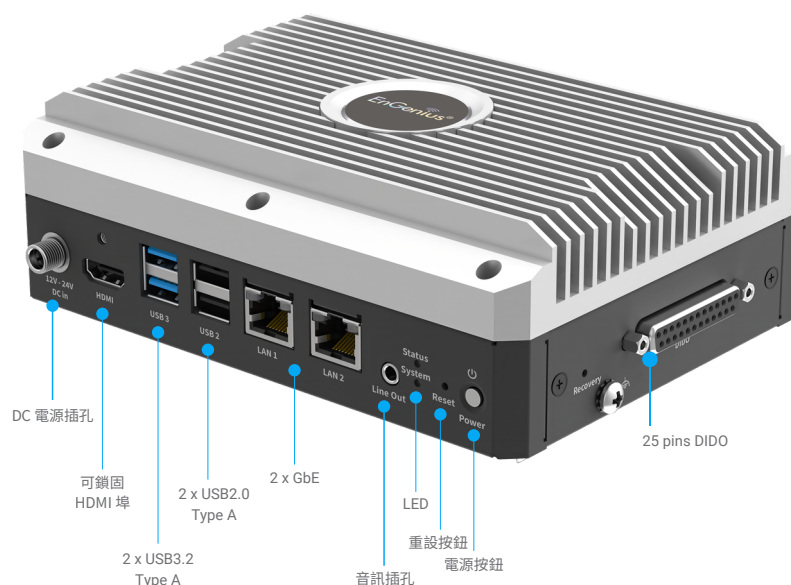


技術規格

Edge AI Computer			
			
Model Name	AI Box 67 / AI Box 67W	AI Box 117 / AI Box 117W	AI Box 157 / AI Box 157W
Model Number	E5-NA08 / E5-NA08W	E5-NB08 / E5-NB08W	E5-NB16 / E5-NB16W
AI 運算平台	NVIDIA® Jetson Orin™ Nano	NVIDIA® Jetson Orin™ NX	NVIDIA® Jetson Orin™ NX
AI 算力	Up to 67 TOPS	Up to 117 TOPS	Up to 157 TOPS
CPU	6-core Arm Cortex-A78AE, up to 1.5GHz	6-core Arm Cortex-A78AE, up to 2.0GHz	8-core Arm Cortex-A78AE, up to 2.0GHz
GPU	1024-core NVIDIA Ampere GPU, 32 Tensor Cores	1024-core NVIDIA Ampere GPU, 32 Tensor Cores	1024-core NVIDIA Ampere GPU, 32 Tensor Cores
記憶體	8GB LPDDR5	8GB LPDDR5	16GB LPDDR5
作業系統	NVIDIA® Linux L4T	NVIDIA® Linux L4T	NVIDIA® Linux L4T
AI Framework	NVIDIA® JetPack	NVIDIA® JetPack	NVIDIA® JetPack
儲存裝置	256GB NVMe SSD	256GB NVMe SSD	256GB NVMe SSD
無線連線	N/A / Wi-Fi6 2x2	N/A / Wi-Fi6 2x2	N/A / Wi-Fi6 2x2
網路	2 × Gigabit Ethernet	2 × Gigabit Ethernet	2 × Gigabit Ethernet
USB	2 × USB 3.2, 2 × USB 2.0	2 × USB 3.2, 2 × USB 2.0	2 × USB 3.2, 2 × USB 2.0
顯示輸出	1 × HDMI®	1 × HDMI®	1 × HDMI®
CAN Bus	1 × DB9 CAN	1 × DB9 CAN	1 × DB9 CAN
GPIO	DB25 Digital I/O	DB25 Digital I/O	DB25 Digital I/O
音訊	3.5 mm Audio Jack	3.5 mm Audio Jack	3.5 mm Audio Jack
電源輸入	12~24V DC	12~24V DC	12~24V DC
NVIDIA® Linux L4T	✓	✓	✓
NVIDIA® JetPack SDK	✓	✓	✓
Board Support Package (BSP)	✓	✓	✓
操作溫度	-20°C ~ 70°C	-20°C ~ 70°C	-20°C ~ 70°C
儲存溫度	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
儲存濕度	5%~95% @ 40° C (non-condensing)	5%~95% @ 40° C (non-condensing)	5%~95% @ 40° C (non-condensing)
按鈕	1 x Power button, 1 x Reset button, 1 x Recovery button	1 x Power button, 1 x Reset button, 1 x Recovery button	1 x Power button, 1 x Reset button, 1 x Recovery button
LED 指示燈	2 x LEDs	2 x LEDs	2 x LEDs
安裝方式	VESA / DIN Rail / Wall Mount	VESA / DIN Rail / Wall Mount	VESA / DIN Rail / Wall Mount
尺寸	170 × 125 × 60 mm	170 × 125 × 60 mm	170 × 125 × 60 mm
重量	1.9kg	1.9kg	1.9kg

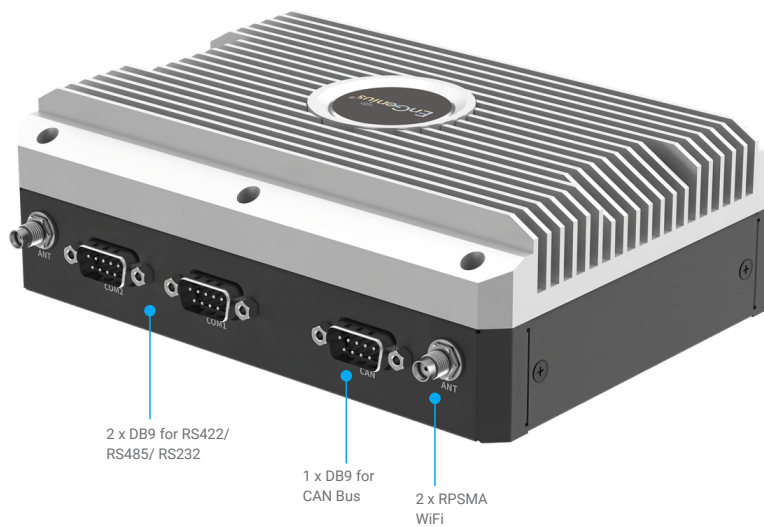
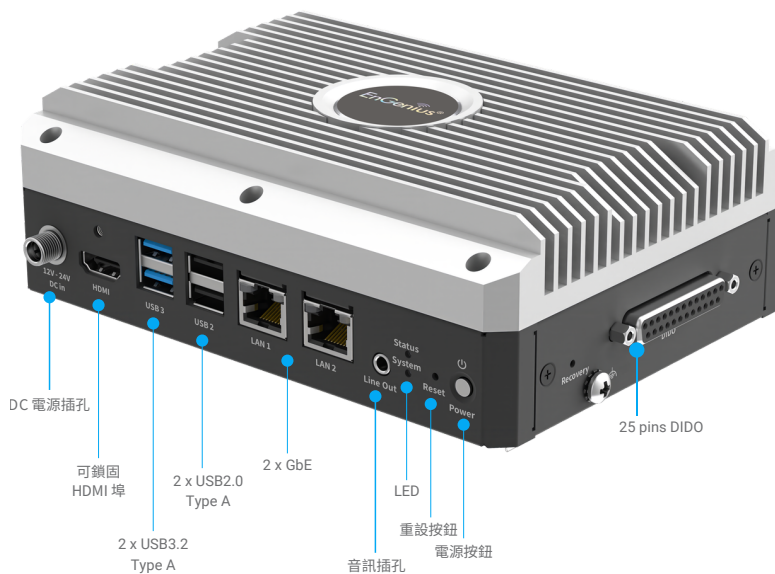
硬體總覽

E5-NA08/ E5-NB08/ E5-NB16



硬體總覽

E5-NA08W/ E5-NB08W/ E5-NB16W



Features and specifications subject to change without notice. Trademarks and registered trademarks are the property of their respective owners. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense. Prior to installing any surveillance equipment, it is your responsibility to ensure the installation is in compliance with local, state and federal video and audio surveillance and privacy laws.

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