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# 司騰達股份有限公司

HMS 台灣總代理 — Remote Access 跨國遠端連線與自動化工業的最佳選擇

司騰達公司致力於推廣數位化工廠和IIoT工業物聯網的解決方案，並與歐洲最先進的公司—HMS集團合作，同時透過引進更多歐美的技術能量，提供客戶關於工業4.0的顧問諮詢服務，並將教育與產業連結，協助台灣產業逐步完成從現場設備、生產資訊、通訊IoT的垂直整合，並整合M2M工業總線與軟體開發，從而實現數位化工廠與自動化機械領域的創新。

LINE



官網



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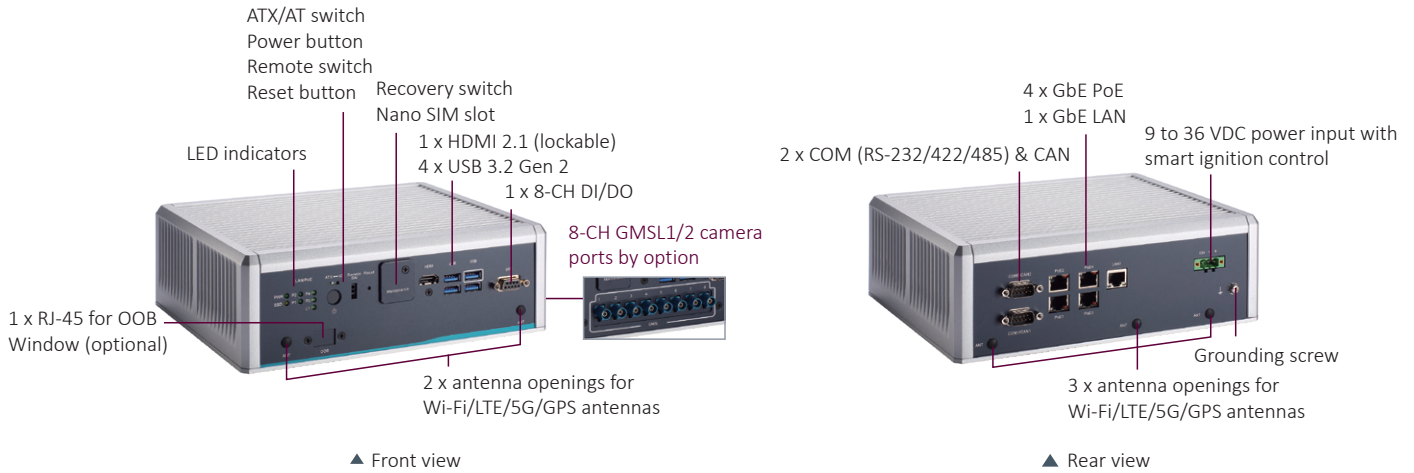
www.bhp.com.tw

# AIE900B-ONX NEW

Fanless Edge AI System with NVIDIA® Jetson Orin™ NX, 1 HDMI, 1 GbE LAN, 4 GbE PoE, 4 USB, 2 COM/CAN, 8-CH DIO, and 8-CH GMSL for AMR & Robotics



**NVIDIA**  
Super Mode



## Features

- NVIDIA® Jetson Orin™ NX (Up to 157 TOPS)
- Supports Super Mode with Jetpack 6.2 and above
- Seamless connectivity with 5G, Wi-Fi, and GbE combined
- Effortless management with USB and PoE device power control
- Supports 4 USB and 4 PoE for camera and sensor connectivity
- Enables 24/7 secure remote monitoring, control, and OTA deployment, powered by Allxon
- Supports the NVIDIA Isaac™ Robot Operating System (ROS) SDK for AI-powered robot development

NVIDIA® Jetson Orin™ NX will be available until 2032\*  
The official end of life notice will be sent for at least 8 months before the last shipment.

## Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
AI Accelerator	NVIDIA® Jetson Orin™ NX 16GB (Up to 157 TOPS) *Under planning: NVIDIA® Jetson Orin™ NX 8GB (117 TOPS), Orin™ Nano 8GB (67 TOPS) or Orin™ Nano 4GB (34 TOPS)
CPU	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
GPU	1024-core NVIDIA Ampere™ GPU with 32 Tensor Cores
System Memory	16GB 128-bit LPDDR5 onboard
Carrier Board	PSB908

## Specifications

System I/O Outlets	<ul style="list-style-type: none"> <li>1 x HDMI 2.1 with 4K2K supported (lockable)</li> <li>1 x 10/100/1000 Mbps (via Orin™ NX)</li> <li>4 x 10/100/1000 Mbps PoE (Intel® I210-IT)</li> <li>*PSE, IEEE 802.3at, up to 30 watts of power</li> <li>4 x USB 3.2 Gen 2 (one for image update)</li> <li>1 x 8-CH DI/DO</li> <li>2 x DB9 for COM (RS-232/422/485) &amp; CAN</li> <li>1 x recovery switch (for image update)</li> <li>1 x remote power switch</li> <li>1 x AT/ATX switch</li> <li>1 x reset button</li> <li>1 x power button</li> <li>8 x Fakra-Z connector for GMSL1/2 camera (optional)</li> <li>1 x 9 to 36 VDC power input connector (with smart ignition control)</li> <li>1 x grounding screw</li> <li>5 x SMA-type antenna connector</li> <li>1 x out-of-band (OOB) module for remote management (optional)</li> </ul>
Watchdog Timer	Built-in Orin NX
Storage	<ul style="list-style-type: none"> <li>1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot</li> <li>*The Orin NX no longer includes built-in eMMC and now exclusively supports an SSD as the bootable device.</li> <li>*The AIE900B-ONX requires an SSD for image installation. Please order an SSD if you need image installation service.</li> </ul>
Expansion Interface	<ul style="list-style-type: none"> <li>1 x full-size PCI Express Mini Card slot (USB + PCI Express signal) for Wi-Fi/LTE</li> <li>1 x M.2 Key B 3042/3052 slot for LTE/5G</li> <li>1 x Nano SIM slot</li> </ul>
System Indicator	<ul style="list-style-type: none"> <li>1 x green LED for system power-on</li> <li>1 x yellow LED for M.2 SSD storage</li> <li>1 x green LED for LAN status</li> <li>4 x green LED for GbE PoE status</li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>Input: 9 to 36 VDC (typical 12/24 VDC) with smart ignition control</li> <li>Inrush current: 1.87A/1.37A</li> </ul>
Operating Temperature	40W power mode: -25°C to +70°C (-13°F to +158°F)
Relative Humidity	10% to 95% relative humidity, non-condensing
Vibration	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, and 1 hr/axis) MIL-STD-810H, Method 514.8, and Category 20
Shock	IEC 60068-2-27 (with SSD: 50G, half-sine, and 11 ms duration) MIL-STD-810H, Method 516.8, and Procedure I
Dimensions (W x D x H)	239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")
Weight (net/gross)	2.54 kg (5.6 lb)/4.59 kg (10.12 lb)
Certifications	CE, FCC Class A, and UKCA
OS Support	Linux Ubuntu 22.04 or later

## Ordering Information

### Standard

AIE900B-ONX16G1L4P-BHP	Fanless edge AI system with NVIDIA® Jetson Orin™ NX 16GB, 1 HDMI, 1 GbE LAN, 4 GbE PoE, 4 USB, 2 COM/CAN, and 8-CH DIO
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### Optional

E29R150110	Wall mount kit
E29R150112	DIN-rail mount kit
E29R150111	VESA mount kit

M.2 NVMe SSD 128GB or above

\*The AIE900B-ONX requires an SSD for image installation. Please order an SSD if you need image installation service.

LTE module kit

Wi-Fi module kit

5G module kit

Out-of-band (OOB) module

Power cord

509000001500	24V/120W adapter
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\* Specifications and certifications may vary based on different requirements.

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## Remote Management Enrollment

Allxon Portal - Sign up for 24/7 secure service to access comprehensive remote device management features through a centralized cloud platform  
\*Enrollment Page: [https://allxon.com/jetson/device\\_enroll/](https://allxon.com/jetson/device_enroll/)

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## Packing List

- 1 x 3-pin terminal block connector for power
- 1 x screw pack
- 4 x foot pad
- 1 x 2-pin cable for remote power switch
- 1 x M.2 SSD thermal kit
- 1 x 5G module thermal kit

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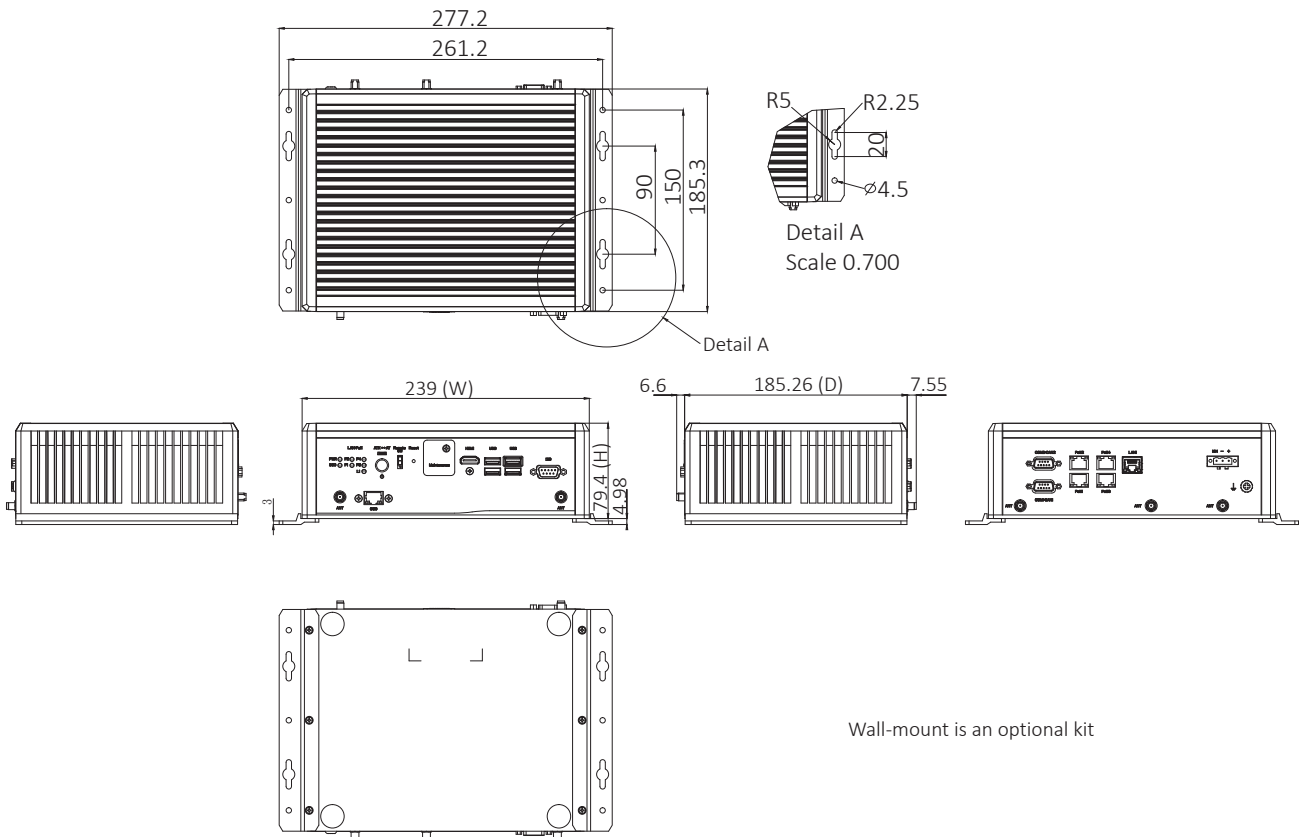
## Power Protection

### DC Adapter

- OVP (over voltage protection)
- OCP (over current protection)
- SCP (short circuit protection)

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## Dimensions



# 司騰達股份有限公司

自動化工業與跨國遠端連線的最佳選擇

Ewon Flexy205

VPN+IOT 物聯網模組

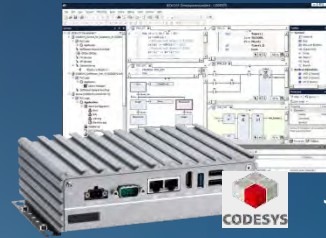
Ewon Cosy  
VPN 遠端連線



Anybus X-Gateway



CODESYS SoftPLC



Jmobile HMI/SCADA IPC



## 工業 4.0 數位工廠與 工業物聯網解決方案

i4-SCADA IPC



WAGO750 Remote IO  
EtherCAT / PROFINET



SIEMENS ET 200SP  
PROFINET Remote IO



MR JET 系列  
EtherCAT 伺服馬達



eSMART Web HMI  
Esmart04/07/10

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