

EIC

2000



NXP i.MX 8M Plus Edge AI Computing System



^ Base Transceiver Station



▼ Smart Manufacturing



^ Irrigation System

- Industrial-grade NXP i.MX 8M Plus Quad Core Arm Cortex-A53 Processor, embedded Neural Processing Unit, up to 2.3 TOPS AI performance
- Supports up to 3840 x 2160 4K UHD
- 2 GigE LAN with 1 TSN supported
- 2 SIM sockets for multiple WiFi/BT/5G/4G/LTE/GPRS/UMTS
- Optional 6-bit GPIO and 2 CAN Bus supports Flexible Data-rate
- 9V to 55V wide range DC Power Input
- Fanless -25°C to 70°C operation

arm



Vecow

Specifications

System

CPU	NXP i.MX 8M Plus Quad Core Arm Cortex-A53 processor
Memory	1 LPDDR4 SDRAM, 4GB
OS	Ubuntu 20.04 LTS

I/O Interface

USB	2 USB 3.0 Type A
Serial	2 COM RS-232/422/485
GPIO	6-bit GPIO (Optional)
CAN Bus	2 CAN Bus support CAN FD (Optional)
Micro USB	1 Micro USB console debug port
Button	- 1 User-define Button - 1 Reset Button
LED	Power, Ready, 2 WLAN
SIM	2 Nano SIM Card Socket
Antenna	6 Antenna for WiFi/BT/5G/4G/LTE/GPRS/UMTS

Expansion

M.2	1 M.2 Key B Socket (3042/3052, PCIe/USB3(Default))
Mini PCIe	1 Full-size Mini PCIe Socket

Graphics

Interface	1 Digital Display, up to 3840 x 2160 @30Hz
Video Encode	- HEVC : Up to 1080p @60 - H.264 : Up to 1080p @60
Video Decode	- HEVC : Up to 1080p @60 - H.264 : Up to 1080p @60

Storage

eMMC	1 eMMC, 32GB
SD	1 Micro SD, supports SDHC (External)

Ethernet

LAN 1	10/100/1000 Base-T Ethernet GigE LAN supports TSN, RJ45 Connector
LAN 2	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector

Power

Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground

Mechanical

Dimensions	130 mm x 78.5 mm x 42 mm (5.12" x 3.09" x 1.65")
Weight	0.5 kg (1.1 lbs)
Mounting	- Wallmount by mounting bracket - DIN Rail Mount (Optional)

Environment

Operating Temp.	-25°C to 70°C (-13°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

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Vecow info@vecow.com



Order Information

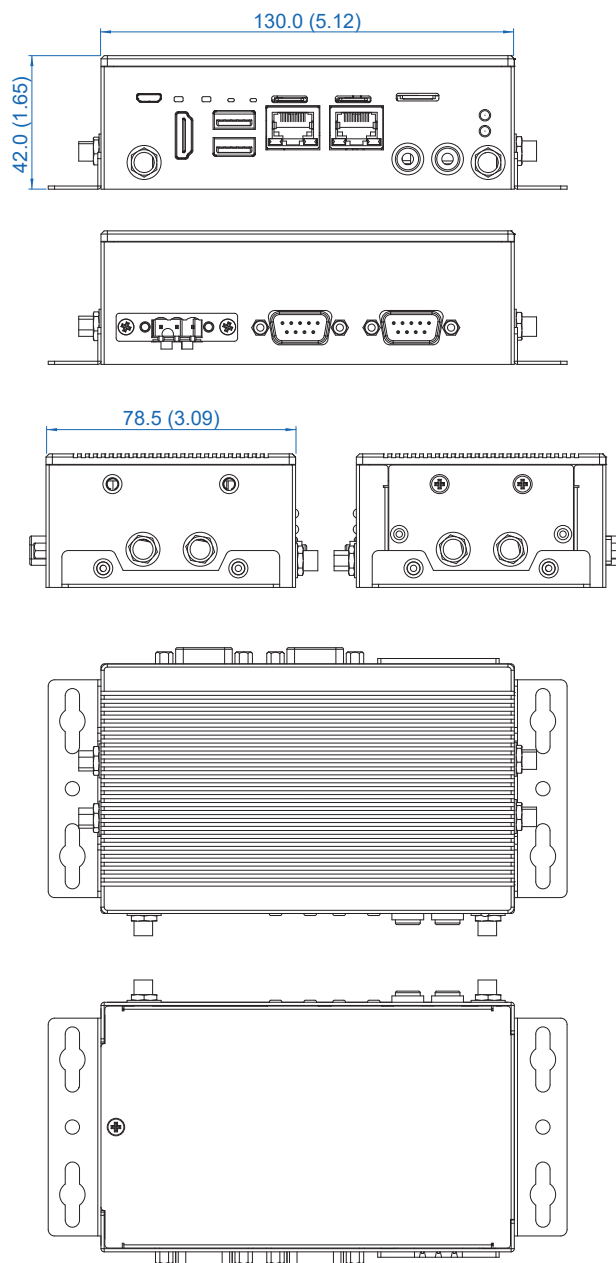
Model Name	Platform	LAN	USB 3.0	Serial	Digital Display	M.2	SIM
EIC-2000	NXP i.MX 8M Plus	2	2	2	1	1	2

Accessories

PWA-60WP3-WT	60W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-60WP3-WT-12V	60W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit : mm (inch)



VHub ESG Solutions

Enabling Digital Factory via One-Stop AIoT Services

Dozens of countries have put forward "2050 Net-Zero Emissions" declarations and actions. To achieve net zero, companies can adopt demonstrated emission reduction measures to target emissions across their value chain and invest in innovative zero-carbon technologies. VHub ESG Solutions for Smart Factory help accelerate the transformation of manufacturing industries and bring competitiveness and environmental sustainability to meet the "Net-Zero" policy.



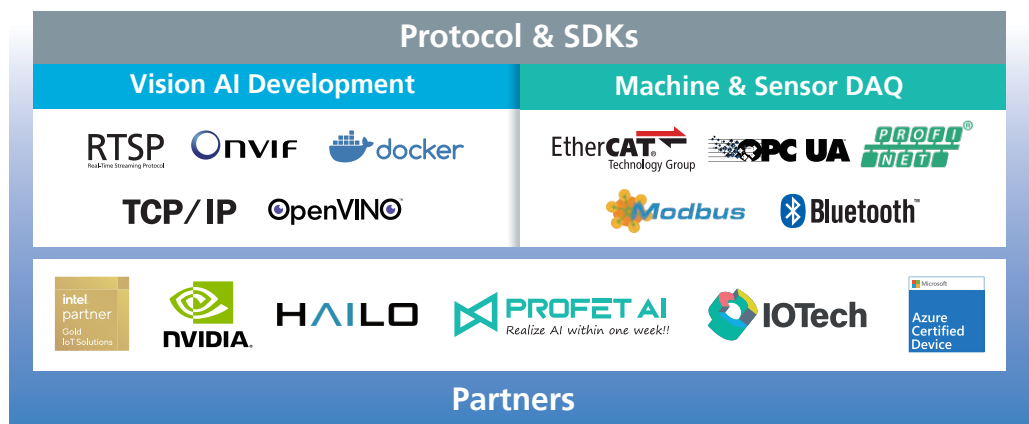
AI Data Analysis



VHub ESG Solutions provide various AI tools to predict equipment maintenance schedule and optimize production capacity through facility parameters like water, oil and power at the edge. It helps the manufacturing industry improve the process, product quality and reduce costs.

Reliable Ecosystem

VHub ESG Solutions support many industrial grade protocols such as Modbus, OPCUA, and Onvif collecting data and integrating communications at the edge. It provides a variety of functions of applications in an easier way.



OT Devices

Training Server



RCX-2000 PEG

- 11th Gen Intel® Xeon®/Core™ i7/i5
- 1500W power budget supports max dual 750W 3-slot graphics card

Training Server



SPC-7000

- 11th Gen Intel® Core™ i7/i5/i3
- Max DC 16V to 160V Wide Range Power Input, TSN, TPM 2.0 supported

Edge Gateway



EIC-2000

- NXP i.MX 8M Plus Arm Cortex-A53 Platform
- Embedded Neural Processing Unit, max 2.3 TOPS AI performance

Inference Platform



ABP-3000 AI

- 8th Gen Intel® Core™ i7/i3
- Optional built-in Hailo-8 AI Accelerator, up to 26 TOPS

Inference Platform



EAC-3000

- Small form factor, max 32 TOPS AI performance
- 5 GigE LAN with 4 PoE+, 2 CAN Bus support Flexible Data-rate

Edge Gateway



AIC-100

- NXP i.MX6ULL Arm Cortex-A7 Platform
- 512MB SDRAM, 512MB Flash