

Embrace Edge AI,
Empower Industrial Digitalization.

EC3320 Series Al Edge Computer

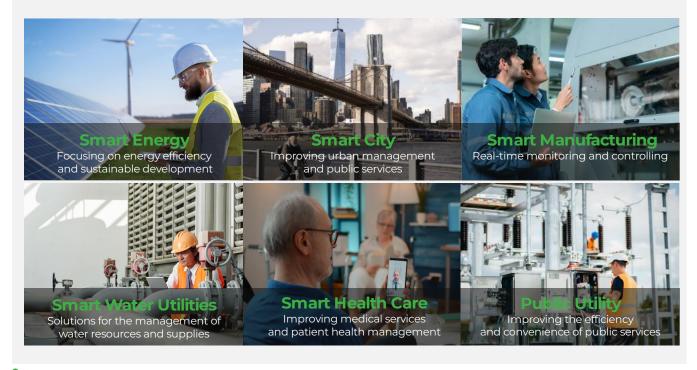
· Strong computing capability

· High security

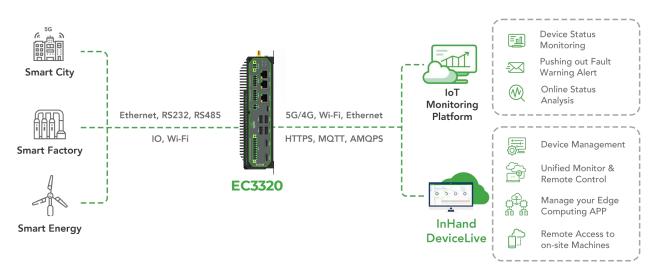
High reliability

· Cloud-Managed

With technology advancements, demand for local computing is on the rise, especially in manufacturing, security, and healthcare. Traditional cloud solutions may not meet the need for fast processing and data security. InHand Networks offers the EC3320 Al edge computer, delivering high performance, real-time decision-making, and enhanced data privacy for improved efficiency in manufacturing, security, and healthcare



Solution



Feature and Advantage

Performance and Platform

- CPU: ARM 4*Cortex-A76 + 4*Cortex-A55, up to2.4GHz
- GPU: Mali-G610 MC4
- NPU: 6TOPS
- Compatible with various Al frameworks
- Support Hailo-8 M.2 module, up to 26TOPs computing power

Rich interfaces

- 3x 10/100/1000Mbps Ethernet interface
- 1x CAN BUS
- 4x USB3.0
- 2x RS-232 and 2x RS-485
- 2x HDMI
- 4DI+4DO
- MIC, SPK

Stable communication

- 4G/Wi-Fi/GbE, etc
- Wired, cellular, Wi-Fi mutual backup, dual SIM failover
- Independent hardware and software watchdog
- EMC Level 3
- Fanless



High-level security

- Linux system security patches and vulnerability remediation
- Secure Boot
- TPM 2.0

DeviceSupervisor™ Agent Service • InHand DeviceLive Cloud Service

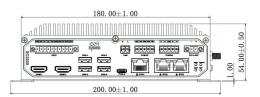
- Easy to achieve data acquisition on the cloud
- Integrate 80+ mainstream data acquisition protocols
- Support data preprocessing
- Integrated data publishing services, public/private cloud, local SCADA

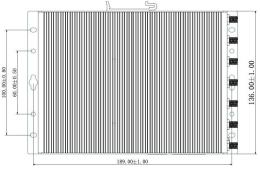
- Remote device access
- Remote device batch management
- Remote batch management of edge Al applications
- Remote container management



Dimensions (mm)











Product Specifications

	high-performanc nixed operations a Torch / Caffe net port strial terminal ninal (4IN, 4OUT, 2 5G dual band ort required)	e GPU nd framework switchin				
Quad-core Mali-G610 MC4 Up to 6 TOPS (INT8) Support INT4/INT8/INT16 m of TensorFlow/MXNet / Py 8GB 64GB eMMC 3x 10/100/1000Mbps Ethern 2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M2(Supports Hailo-8 M.2 1x Power, 1x Reset	high-performanc nixed operations a Torch / Caffe net port strial terminal ninal (4IN, 4OUT, 2 5G dual band ort required)	e GPU nd framework switchin				
Quad-core Mali-G610 MC4 Up to 6 TOPS (INT8) Support INT4/INT8/INT16 m of TensorFlow/MXNet / Py 8GB 64GB eMMC 3x 10/100/1000Mbps Ethern 2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M2(Supports Hailo-8 M.2 1x Power, 1x Reset	high-performanc nixed operations a Torch / Caffe net port strial terminal ninal (4IN, 4OUT, 2 5G dual band ort required)	e GPU nd framework switchin				
Up to 6 TOPS (INT8) Support INT4/INT8/INT16 n of TensorFlow / MXNet / Py 8GB 64GB eMMC 3x 10/100/1000Mbps Ethern 2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M2(Supports Hailo-8 M.2 1x Power, 1x Reset	nixed operations a Torch/Caffe net port strial terminal ninal (4IN, 4OUT, 2 5G dual band ort required)	nd framework switchin				
Support INT4/INT8/INT16 m of TensorFlow/MXNet/Py 8GB 64GB eMMC 3x 10/100/1000Mbps Ethern 2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/ BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M2(Supports Hailo-8 M.2 1x Power, 1x Reset	net port strial terminal ninal (4IN, 4OUT, 2 5G dual band ort required)					
of TensorFlow/MXNet/Py 8GB 64GB eMMC 3x 10/100/1000Mbps Etherr 2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802:11ac/a/b/g/n, 2.4G/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M2(Supports Hailo-8 M.2) 1x Power, 1x Reset	net port strial terminal ninal (4IN, 4OUT, 2 5G dual band ort required)					
64GB eMMC 3x 10/100/1000Mbps Etherr 2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M.2(Supports SATA3.0 SS 1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset	strial terminal ninal (4IN, 4OUT, 2 God dual band ort required)	GND)				
3x 10/100/1000Mbps Etherr 2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA 802.11ac/a/b/g/n, 2.4G/ BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset	strial terminal ninal (4IN, 4OUT, 2 God dual band ort required)	GND)				
2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M2(Supports Hailo-8 M.2 1x Power, 1x Reset	strial terminal ninal (4IN, 4OUT, 2 God dual band ort required)	GND)				
2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M2(Supports Hailo-8 M.2 1x Power, 1x Reset	strial terminal ninal (4IN, 4OUT, 2 God dual band ort required)	GND)				
2x RS-232+2x RS-485, indus 10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M2(Supports SATA3.0 SS 1x M2(Supports Hailo-8 M.2 1x Power, 1x Reset	strial terminal ninal (4IN, 4OUT, 2 God dual band ort required)	GND)				
10pin industrial green term 1x CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G// BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M.2(Supports SATA3.0 SS 1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset	oinal (4IN, 4OUT, 2 5G dual band ort required) 5D, supports 2242	GND)				
Ix CAN 2.0 STA, 802.11ac/a/b/g/n, 2.4G/M BLE 5.0 GPS (cellular module supplex USB 3.0 2x HDMI 2.0 Ix M.2(Supports SATA3.0 SS Ix M.2(Supports Hailo-8 M.2) Ix Power, Ix Reset	5G dual band ort required) 5D, supports 2242					
STA, 802.11ac/a/b/g/n, 2.4C/s BLE 5.0 GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M.2(Supports SATA3.0 SS 1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset	ort required) SD, supports 2242					
BLE 5.0 GPS (cellular module supplement of the	ort required) SD, supports 2242					
GPS (cellular module supp 4x USB 3.0 2x HDMI 2.0 1x M.2(Supports SATA3.0 SS 1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset	SD, supports 2242					
4x USB 3.0 2x HDMI 2.0 1x M.2(Supports SATA3.0 SS 1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset	SD, supports 2242					
2x HDMI 2.0 1x M.2(Supports SATA3.0 SS 1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset						
1x M.2(Supports SATA3.0 SS 1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset						
1x M.2(Supports Hailo-8 M.2 1x Power, 1x Reset						
1x Power, 1x Reset	z rnoaule, un to 76	lx M.2(Supports SATA3.0 SSD, supports 2242 size)				
	,,	lx M.2(Supports Hailo-8 M.2 module, up to 26TOPs computing powe				
0.11.001.1.						
2x Nano SIM Slot						
1x MIC						
1x SPeaker						
Integrated TPM chip, TPM	2.0					
÷						
DIN-rail, wall mounting	Protection	IP40				
180x 136x 54mm Housing Metal						
9~36V DC-input (2pin green industrial terminal, with flange)						
Industrial terminal block						
ure and Humidity						
-20~ 60°C	Storage Temperature	-40 ~ 85°C				
Iemperature						
(I loti-condensing)						
User-definable						
EN61000-4-2, level 3						
EN61000-4-3, level 3						
EN61000-4-4, level 3						
EN61000-4-5, level 3						
EN61000-4-8, horizontal / vertical 400A/m (>level 2)						
JECCOOCC 2 22	\d\	UECCOCCO C				
IEC60068-2-27	Vibration	IEC60068-2-6				
	DIN-rail, wall mounting 180x 136x 54mm 9~36V DC-input (2pin gree Industrial terminal block ure and Humidity -20~60°C 5~95% (non-condensing) Power supply indicator light fill 4G connection indicator light fill 4G connection indicator light fill User-definable EN61000-4-2, level 3 EN61000-4-3, level 3 EN61000-4-6, level 3 EN61000-4-6, level 3 EN61000-4-12, level 3 EN61000-4-12, level 3 EN61000-4-14, level 3	DIN-rail, wall mounting Protection Rating 180x 136x 54mm Housing 9~36V DC-input (2pin green industrial terminal block provided in the protection of the pr				

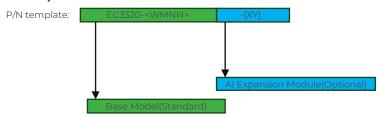
ltem	EC3320			
ns.	20020			
os	Linux			
Network Interconnection				
Network Type	5G NR, LTE Cat6(Different models for different networks)			
Security				
Secure Boot	Support			
Reliability				
Backup	Dual SIM			
Link Detection	Multi-Level link detection, auto-redials once disconnected			
Embedded Watchdog	Device self-diagnosing, auto-recovers from operation faults			
Data Acquisition Protocol(*DSA)				
Industrial Protocol	Modbus RTU Master/Slave, Modbus TCP Master/Slave, EtherNet/IP, ISO on TCP, OPC UA Client/Server, Mitsubishi MC 3C/3E/3C OverTCP, Mitsubishi CPU Port, FINSUDP, HostLink, PPI			
Electricity Protocol	DLT645-2007, IEC101/104, DNP3.0			
Other Protocol	BACnet, CNC			
Maintenance and	Management			
Upgrade Method	Supports patent upgrade mechanism, local or remote firmware upgrade			
Log	Support local system logs, remote logs,			
Remote Management				
DeviceLive Cloud	eviceLive Cloud Supports cloud-based parameter configuration, container management, application and firmware management			

*DSA: The DeviceSupervisor Agent (DSA), developed by InHand Networks, is a cutting-edge intelligence software designed to operate on Edge Computer products. It enables clients to quickly implement data collection, processing, protocol conversion, and cloud connectivity through a "zero code/low code" approach. If you need the DSA application on the EdgeComputer product, please visit the official website to obtain the DSA software package.



Ordering Guide

Description of selection



Base Model

Model	Cellular Type &Frequency Band: <wmnn></wmnn>	Memory	Storage	Ethernet Port	Serial Port	Wi- Fi/BT/CAN/MIC/SPK/DI/DO	GPS
EC3320-NRQ3	Gloable 5G NR 5G NR NSA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/ n38/n40/n41/n48/n66/n71/n77/n78/n 79 5G NR SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/ n38/n40/n41/n48/n66/n71/n77/n78/n 79 LTE FDD: B1/82/B3/B5/B7/B8/B12(B17)/B13/B14/ B18/B19/B20/B25/B26/B28/B29/B30/ B32/B66/B71 LTE TDD: B34/B38/B39/B40/B41/B42/B48 LAA:B46 WCDMA Bands: B1/B2/B3/B4/B5/B6/B8/B19	8 GB	64 GB	3x 1000Mbps	2x RS232+2x RS485	YES	YES
EC3320-FQ09	Gloable 4G CAT6 LTE FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/71 LTE TDD: B34/38/39/40/41/42/43/46(LAA)/48 (CBRS)	8 GB	64 GB	3x 1000Mbps	2x RS232+2x RS485	YES	YES
EC3320-EN00	No Cellular	8 GB	64 GB	3x 1000Mbps	2x RS232+2x RS485	YES	NO

Hailo Al Module(Optional)

[XV]			
P/N Code	Feature		
-	None		
H8	Hailo-8, M.2 Key B+M 2280		

About Us

In Hand Networks is a leading IoT solutions provider founded in 2001, dedicated to driving digital transformation across industries and empowering customers to unlock their full potential and achieve accelerated growth.

We specialize in delivering industrial-grade connectivity solutions for diverse sectors, such as enterprise networks, industrial and building IoT, digital energy, smart commerce, and mobility. Our comprehensive product portfolio and services cater to various applications worldwide, including smart manufacturing, smart grid, intelligent transportation, smart retail, etc. With a global footprint spanning over 60 countries, we serve customers in China, the United States, France, Germany, the United Kingdom, Italy, and beyond.



3650 Concorde Pkwy, Suite 200 Chantilly, VA 20151, USA T: +1 (703) 348-2988 E: info@inhand.com www.inhand.com