

Embrace Edge AI,
Empower Industrial Digitalization.

EC3320 Series Al Edge Computer

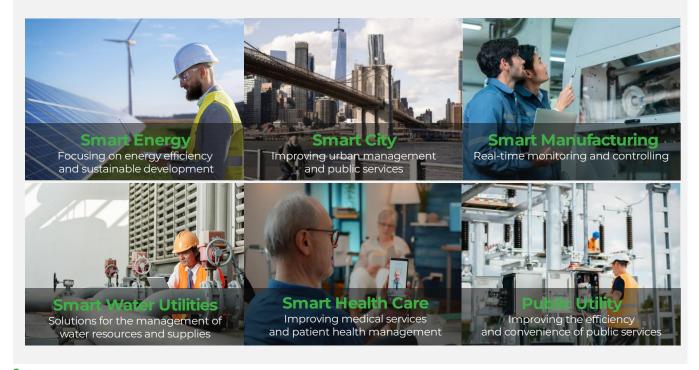
· Strong computing capability

· High security

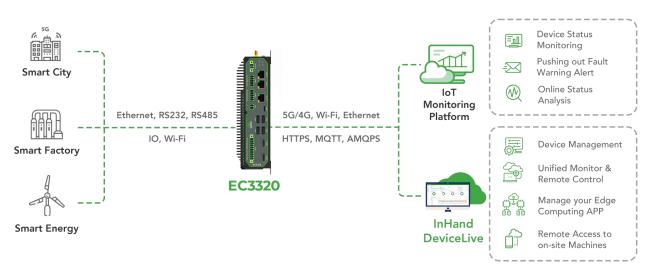
High reliability

· 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

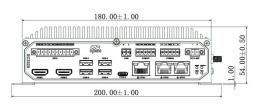
- Easy to achieve data acquisition on the cloud
- Integrate 80+ mainstream data acquisition protocols
- Support data preprocessing
- Integrated data publishing services, public/private cloud, local SCADA

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

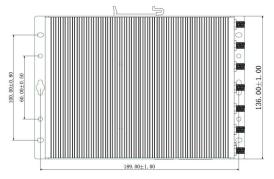


Dimensions (mm)













Product Specifications

Hardware Specific						
Item	EC3320					
Hardware Platform	1					
CPU	Quad Cortex-A76 + Quad Cortex-A55@ up to2.4GHz					
GPU	Quad-core Mali-G610 MC4 high-performance GPU					
Up to 6 TOPS (INT8)						
NPU	Support INT4/INT8/INT16 mixed operations and framework switching of TensorFlow / MXNet / PyTorch / Caffe					
RAM						
	8GB					
FLASH	64GB eMMC					
Interfaces						
EtherNet Port	3x10/100/1000Mbps Ethernet port					
Serial Port	2x RS-232+2x RS-485, industrial terminal					
1/0	10pin industrial green terminal (4IN, 4OUT, 2GND)					
CAN	1x CAN 2.0					
Wi-Fi	STA, 802.11ac/a/b/g/n, 2.4G/5G dual band					
Bluetooth	BLE 5.0					
GPS	GPS (cellular module support required)					
USB						
	4x USB 3.0					
HDMI	2x HDMI 2.0					
Expansion Interface	1x M.2(Supports SATA3.0 SSD, supports 2242 size)					
	1x M.2(Supports Hailo-8 M.2 module, up to 26TOPs computing power					
Power Button	lx Power, lx Reset					
SIM Card	2x Nano SIM Slot					
MIC	1x MIC					
SPK	lx SPeaker					
Security						
TPM (Optional)	Integrated TPM chip, TPM2.0					
Mechanical Featur	Δ					
meeriamean eata		Protection				
Installation	DIN-rail, wall mounting	Rating	IP40			
Dimensions	180x 136x 54mm	Housing	Metal			
Power Supply						
Power Input	9~36V DC-input (2pin gree	n industrial termi	nal, with flange)			
Power Interface	Industrial terminal block					
Ambient Tempera	ture and Humidity					
	care and marmary	Ctorago				
Working Temperature	-20~ 60°C	Storage Temperature	-40 ~ 85℃			
Ambient	5 ~ 95% (non-condensing)					
Humidity	,					
Indicator						
Power	Power supply indicator ligi					
Status	The status indicator light fl					
4G	4G connection indicator light is always on when connected normally					
USER	User-definable					
EMC Index						
Electrostatic	ENGIOCO 4 2 los -17					
Discharge	EN61000-4-2, level 3					
Radiation RFI Immunity	EN61000-4-3, level 3					
Electrical Fast Transients	EN61000-4-4, level 3					
Surge	EN61000-4-5, level 3					
Conducted RFI	EN61000-4-6 ,level 3					
Ring Wave	EN61000-4-12,level 3					
Immunity	EN61000-4-8, horizontal / vertical 400A/m (>level 2)					
Power Frequency Magnetic Field Resistance	EN61000-4-8, horizontal / v	ertical 400A/m (>	level 2)			
Power Frequency Magnetic Field Resistance	EN61000-4-8, horizontal / v	vertical 400A/m (>	level Z)			
Power Frequency Magnetic Field	EN61000-4-8, horizontal / \\ IEC60068-2-27	vertical 400A/m (>	IEC60068-2-6			

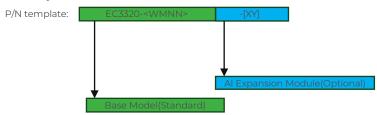
Software Specifica	IUOIS		
ltem	EC3320		
os			
os	Linux		
Network Interconnection			
Network Type	5G NR, LTE Cat6(Different models for different networks)		
Security			
Secure Boot	Support		
Reliability			
Backup	Dual SIM		
Link Detection	Multi-Level link detection, auto-redials once disconnected		
Embedded Watchdog	Device self-diagnosing, auto-recovers from operation faults		
Data Acquisition P	rotocol(*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	InHand DeviceLive, HTTP, HTTPS, SSH,etc.		
DeviceLive Cloud	seLive 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)

[XY]				
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.



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