

Embrace Edge Al,
Empower Industrial Digitalization.

EC3320 Series Al Edge Computer

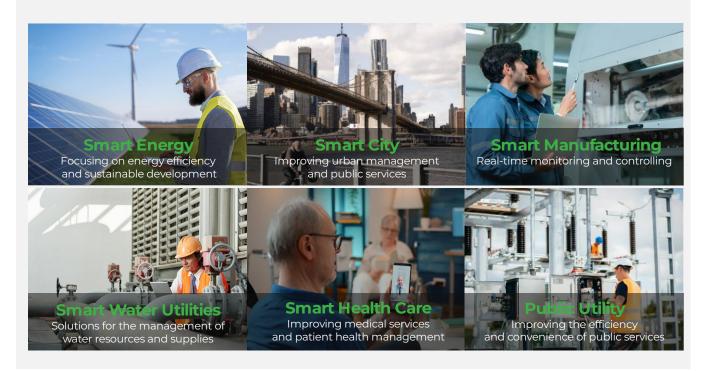
· Strong computing capability

· High security

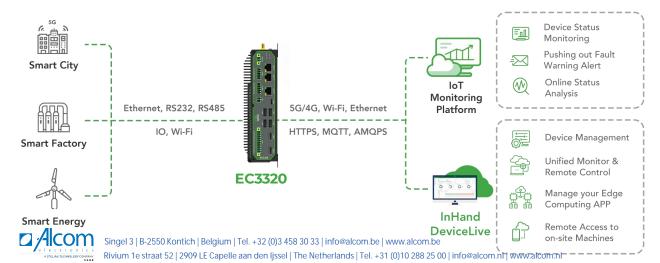
· High reliability

· 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

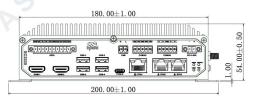
- Easy to achieve data acquisition on the cloud
- Integrate 80+ mainstream data acquisition protocols
- Support data preprocessing
- Integrated data publishing services, public/private cloud, local SCADA

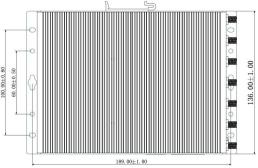
- Remote device access
- Remote device batch management
- Remote batch management of edge Al applications
- Remote container management



Dimensions (mm)











Product Specifications

	cations				
Item	EC3320				
Hardware Platforr	n :				
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 switchin of TensorFlow / MXNet / PyTorch / Caffe				
RAM					
FLASH	8GB 64GB eMMC				
	640D EMINC				
Interfaces					
EtherNet Port	3x 10/100/1000Mbps Ether				
Serial Port	2x RS-232+2x RS-485, indu	strial terminal			
I/O	10pin industrial green terr	minal (4IN, 40UT, 2	2GND)		
CAN	1x CAN 2.0				
Wi-Fi	STA, 802.11ac/a/b/g/n, 2.4G,	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)				
	lx 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	1x SPeaker				
Security					
TPM (Optional)	Integrated TPM chip, TPM	12.0			
Mechanical Featu	ire				
Installation	DIN-rail, wall mounting	Protection Rating	IP40		
Dimensions	180x 136x 54mm	Housing	Metal		
Power Supply					
Power Input	9~36V DC-input (2pin gree	on industrial torna	inal with flange)		
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Power Interface	Industrial terminal block				
Ambient Tempera	ature and Humidity				
Working Temperature	-20~ 60°C	Storage Temperature	-40 ~ 85°C		
Ambient		.i			
Humidity	5 ~ 95% (non-condensing)			
Indicator					
Power	Power supply indicator lig				
Status	The status indicator light f	lashes during nor	mal operation;		
4G	4G connection indicator li				
USER	User-definable	- //			
	SSC. GEIII IADIC				
EMC Index					
Electrostatic Discharge	EN61000-4-2, level 3				
Radiation RFI Immunity	EN61000-4-3, level 3	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					
Immunity	EN61000-4-12,level 3				
Power Frequency Magnetic Field Resistance	EN61000-4-8, horizontal / vertical 400A/m (>level 2)				
Physical Features					
		1			
Shock	IEC60068-2-27	Vibration	IEC60068-2-6		

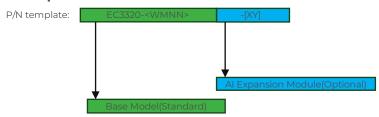
	FC7720		
tem	EC3320		
OS			
OS	Linux		
Network Interconnection			
Network Type	5G NR, LTE Cat6(Different models for different networks)		
Security			
Secure Boot	Support		
Reliability			
Backup	Dual SIM		
Link Detection	Multi-Level link detection, auto-redials once disconnected		
Embedded Watchdog	Device self-diagnosing, auto-recovers from operation faults		
Data Acquisition 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	InHand DeviceLive, HTTP, HTTPS, SSH,etc.		
DeviceLive 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/B2/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: BI/ 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		
Н8	Hailo-8, M.2 Key B+M 2280		

About Us

InHand 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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