

# EDGE INTELLIGENT GATEWAY

Integrating core capabilities of network, computing, storage and application

E210



## PRODUCT INTRODUCTION

An intelligent platform close to the data source on the edge, integrating the core capabilities of network, computing, storage, and applications. Based on deep learning technology, it provides high-performance edge intelligence services that work with the cloud platform to meet the key needs of the IoT industry in terms of agile connectivity, real-time business, data optimization, application intelligence, security and privacy.

## PRODUCT FEATURES



Reduce network bandwidth costs and the latency of applications.



AI compute capability running complex algorithms on edge.



Easily re-task as the situation demands.



Improve the overall robustness of the system and data security.

## Technical Specifications

Item	Sub-Items	Descriptions
Processor System	CPU	Intel Core Alder Lake S
	TDP	12W MAX
	BIOS	AMI 128Mbit SPI Flash
Memory	Technology	2 x DDR4 3200MT/s SO-DIMM
	Max. Capacity	32 GB
Display	Controller	Intel Gen11 Graphics Engines (SoC integrated)
	Graphic Features	DX12, OGL4.5, OCL1.2, Vulkan 1.1, MPEG2, H.264, JPEG/MJPEG, H.265 (HEVC)
External I/O	DP	1 x DP1.4 up to 4096 x 2160@60Hz
	HDMI	1 x HDMI 2.0b, up to 4096 x 2160@60Hz
	Ethernet	2 x Intel i210-AT GbE LAN, 1 x Intel i226-V 2.5GbE LAN
	COM	COM1: RS-232/422/485, COM2: RS-232, COM3~6: RS-485
	USB	2 x USB2.0, 2 x USB3.0
	CAN	2 x CANBus 2.0 A/B
	DIO	16 x DI (NPN or PNP, 10K), 16 x DO (NPN, 10K)
	Encoder	2 x Encode
	Power DC Jack	Phoenix 4pin
Expansion	M.2 E-Key	1 x M.2 2230 Support Wi-Fi
	M.2 B-Key	1 x M.2 3052 Support 4G/5G
	M.2 M-Key	1 x M.2 2280 SATA3.0
	SATA	1 x SATA3.0
	Internal USB2.0	3 x Internal USB2.0 (Pin out), 1 x Internal USB Type-A
	SIM	1 x Nano SIM
LED	LED Lights	Power status, HDD R/W, USER1, USER2
Power	Supply Voltage	DC 9-36V ± 10%
	Max. Consumption	30W
	Power Management	AT/ATX
Others	Watch Dog	Timer Output System reset, Programmable counter from 1 ~ 255 minutes/ seconds
	TPM	TPM 2.0 (optional)
Environment	Operational Temperature	0 ~ 60 °C (32~140°F)
	Storage Temperature	-40° C ~ 85° C (-40~185°F)
	Relative Humidity (Operating)	95% @ 40 °C (non-condensing)
	Relative Humidity (Storage)	95% @ 60 °C (non-condensing)
Physical	Dimensions	172 x 125 x 62.5mm (L x W x H)
Characteristics	Installation	Wall-mounting/Din Rail
Certification	EMC	CE, FCC
OS Support	OS Support	Windows 10/11, centos 8, ubuntu 20.04/22.04

## AI Functions

Scenarios	Type		
Smart Community	Cross-line Operation	People Gathering	Area Intrusion
	Illegal Vehicle Parking	Fire Extinguisher Placement	Fire Recognition
	Fire Escape Occupied	Peopel Wandering	Smoke Recognition
	Electric Bike Helmet	Fence Climbing	Feature Recognition
Smart Building	Workwear Indentify	Smoke Detection	People Gathering
	Mush Identify	People Counting	Sleeping on Duty
	Smoking Detection	People Counts Changes	People Falls
	People Wandering	Not wearing work clothes	Throwing objects from height
	Fire Detection	Fire Extinguisher Placement	Fence Climbing Detection
Smart Construction	Fire Escape Occupied	Leaving on Duty	Area Intrusion
	Helmet WearDetection	People Intrusion	People Counting
	Safety Rope Wearing Detection	Reflective Clothing Detection	Objects Counting
Smart Traffic	People Counting	Illegal Parking Detection	Vulnerable Traffic Participant Detection
	Traffic Statistics	Signal Optimization	Water level detection
	Traffic Incident	Reverse Driving	Abnormal Visibility
	Vehicle Type/Feature	Non-motorized Type/Feature	People Feature Recognition
Smart Gas Station	Fire Detecion	People Intrusion	Phone Detection
	Smoke Detection	Fire Extinguisher	Smoking Detection