Atlas Embedded PC 200I-101F1E5

Datasheet

Date 2024-04-02

PLink-AI Ascend

品立科技 | 昇腾APN合作伙伴

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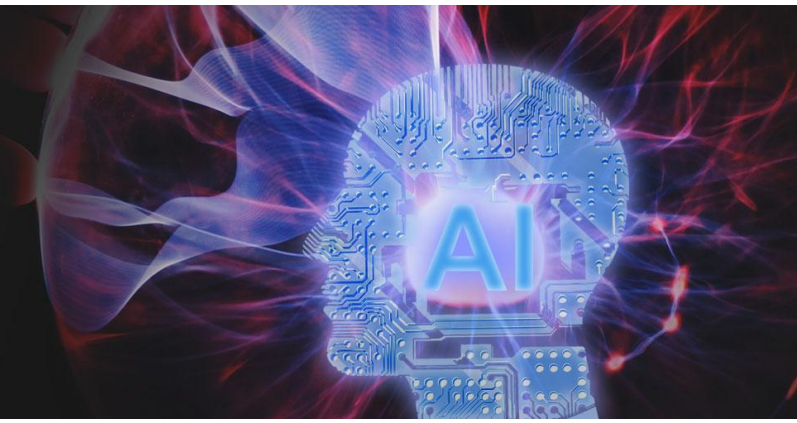

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Beijing Plink-AI Technology Co., LTD

Web：http://www.plink-ai.com/

Add: Room 1106/1108, Jinyu Jiahua Building, Shangdi 3rd Street, Haidian District, Beijing, China

Tel: +86 010-62962285/400-127-3302

Product manual revision records

Revised version	Revised date	Revised contents	Hardware version
V 1.0	2024-04-03	Create the document	V 1.1

Product hardware revision history

Hardware version	Revised date	Revised contents
V 1.1	2024-04-03	Initial version

Electronic components and circuits are very sensitive to electrostatic discharge, although the company will design the main interface on the board card to do anti-static protection design, but it is difficult to do anti-static safety protection for all components and circuits. Therefore, it is recommended that you take ESD safety measures when handling any circuit board component.

ESD safety measures include but are not limited to the following:

1. Put the card in an ESD bag during transportation or storage. Do not take out the card until installation and deployment.
2. Before touching the board, release the static electricity stored in the body: Wear a grounding wrist strap.
3. Operate circuit boards only in electrostatic discharge safe areas.
4. Avoid moving circuit boards in carpeted areas.
5. Avoid direct contact with electronic components on the board through edge contact.

CONTENS

1 Introduction

Atlas200I-101F1E5 Artificial intelligence computing platform (hereinafter referred to as200I-101F1E5), can be widely used in intelligent park, machine vision, security inspection, vehicle and road cooperation and other AI scenarios, the equipment has high computing density, high efficiency ratio, low cost and high reliability, and rich external interfaces. The main interface is designed for electrostatic safety protection.

- **Appearance**

2 Product Specification

Module	Ascend Atlas 200I A2 module
Dimensions (L+W+H)	202mm x 200mm x 65.5mm (Not including I/O ports and mounting holes)
Weight	2036g
Power Supply	DC 19~36V
OS	openEuler/Ubuntu

Item	Specification
Temperature	-40°C~85°C

I/O Feature

Interface	Quantity	Interface	Quantity
USB 3.0 Type-A	2	Ethernet	5
USB Type-C	1	HDMI	1
TF Card slot	1	Nano SIM Card slot	1

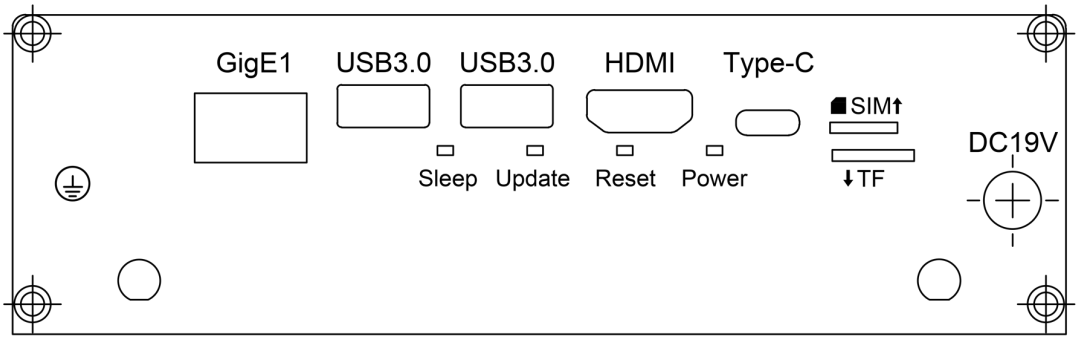
Expansion

SATA	5G module	WIFI module	NVMe
✓	✓	✓	✓

3 Module Specification

	20 TOPS 12GB	20 TOPS 8GB	8 TOPS 4GB
AI Compute Power	20 TOPS INT8 10 TFLOPS FP16		8 TOPS INT8 4 TFLOPS FP16
Memory	12GB 96bit LPDDR4x 4266 Mbps (ECC)	8GB 64bit LPDDR4x 4266 Mbps (ECC)	4GB 64bit LPDDR4x 3200 Mbps (ECC)
Encoding	20x 1080p 30fps(H.264/H.265) 3x 4k 50fps(H.264/H.265)		12x 1080p 30fps (H.264/H.265) 2x 4k 50fps (H.264/H.265)
Decoding	40x 1080p 30fps(H.264/H.265) 4x 4k 75fps(H.264/H.265)		20x 1080p 30fps (H.264/H.265) 2x 4k 75fps (H.264/H.265)
JPEG Encoding	1080p 256fps		1080p 256fps
JPEG Decoding	1080p 512fps		1080p 512fps
Power	25W	24.5W	21W

4 Ports on the Front Panel



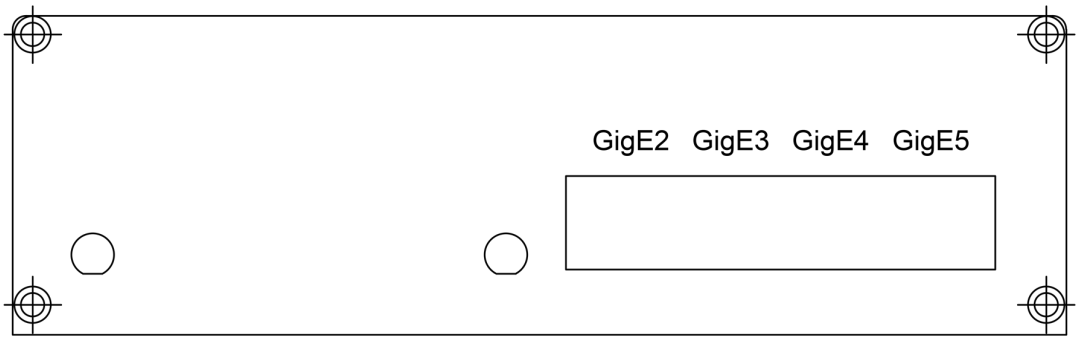
Description of ports on the front panel

Name	Quantity	Description
SIM	1	Nano SIM card slot
GigE1	1	Ethernet Jack(10/100/1000Mbps Ethernet), RJ45 connector
TF	1	TF card slot
HDMI	1	HDMI Type-A connector
Type-C	1	USB Type-C
USB 3.0	2	USB 3.0 Type-A

Indicators and Buttons on the Front Panel

Name	Quantity	Name	Quantity
Sleep	1	Update	1
Reset	1	Power	1

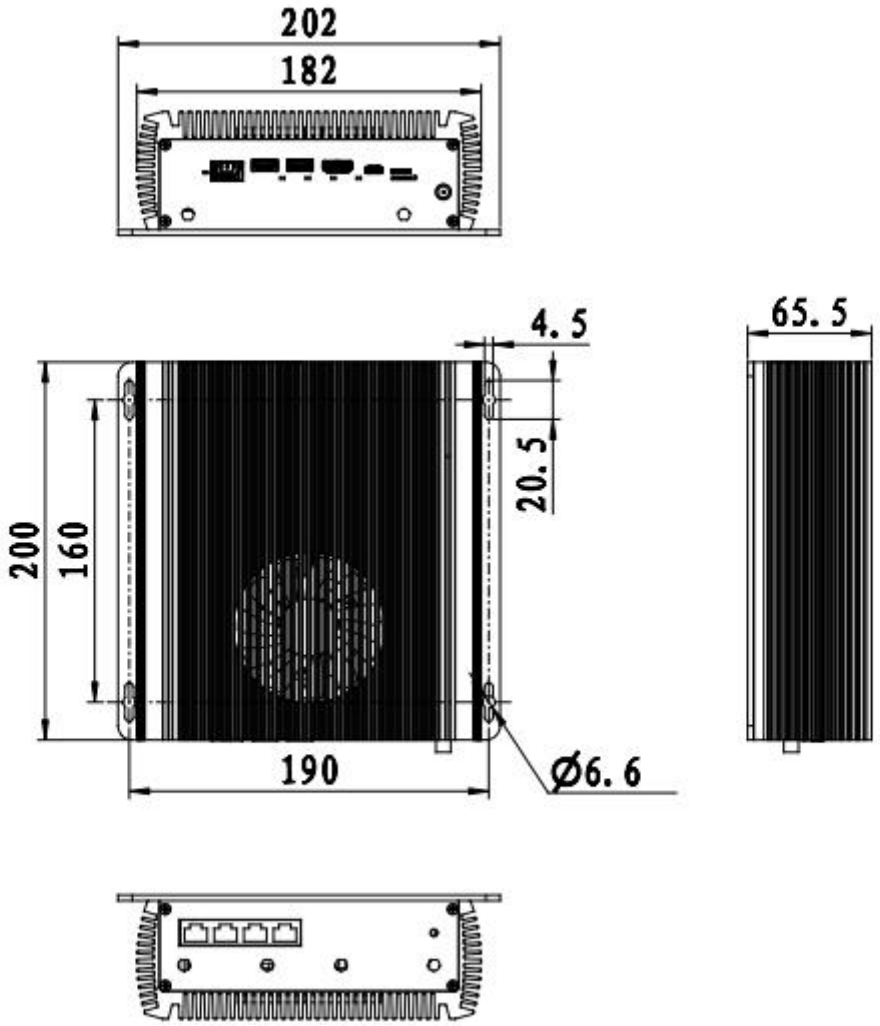
5 Ports on the Rear Panel



Description of ports on the rear panel

Name	Quantity	Description
GigE2	1	Ethernet Jack(10/100/1000Mbps Ethernet), RJ45 connector
GigE3	1	
GigE4	1	
GigE5	1	

6 Dimensions



7 Method of Application

- Make sure all external system voltages are turned off.
- Install necessary external cables.

(such as: the display line connected to the HDMI, the input line for the system power supply, the USB cable connecting the keyboard and mouse...)

- Connect the power cord to the power supply
- The default system is automatically powered on. It can also be set as a switch start, for specific methods, please consult our sales and technicist.

Order Information

Model	Description
200I-101F1E5	Module：Ascend Atlas 200I A2

The 200I-101F1E5 does not include other functional modules as standard，

If you need to expand, please contact us

Special Version

- **Initial system user：HwHiAiUser, password：Mind@123.**
- If you need the root permission, run the su root command to enter the root user