

爱克斯板开发者套件数据手册

- 11 代英特尔赛扬处理器 N5105 2.0-2.9GHz (Jasper Lake)
- 板载 LPDDR4x 内存, 最高支持 8GB
- 板载 eMMC 存储 64GB
- 1 个千兆以太网口, 4 个 USB3.0
- 板载 WiFi6 模块 Intel AX201
- 1 个 M.2 存储扩展槽,支持 SATA&NVME
- 1 路 DP 接口, 1 路 HDMI 接口 , 支持双显
- Type-C PD 供电, DC 12V 供电
- AI 推理单元 : CPU/iGPU/GNA



规格书

概述

CPU	英特尔赛扬 N5105 2.0-2.9GHz (formerly Jasper Lake)
GPU	英特尔 UHD 集成显卡 24 个执行单元 450MHz-800MHz
内存	板载 LPDDR4x 2933MHz, 4GB/6GB/8GB
存储	板载 64GB eMMC 存储
存储扩展	1 * M.2 Key-M 2242, Support SATA&NVME
BIOS	AMI UEFI BIOS
系统支持	Ubuntu Windows 10/11

推理单元

CPU	INT8/FP16/FP32
iGPU	INT8/FP16
GNA	主要用于语音降噪

I/O 接口

以太网	1 * RJ45 千兆以太网
USB	4 * Type-A USB3.0 1 * Type-C PD 供电
无线模组	1 * Intel AX201 WiFi6, Bluetooth5.1
电源输入	1 * Type-C PD 供电 1 * DC 12V 板载输入接口
其他	1 * 3.5mm 耳机&麦克风 2 合 1 接口 1 * 40-Pin GPIO 排针

显示

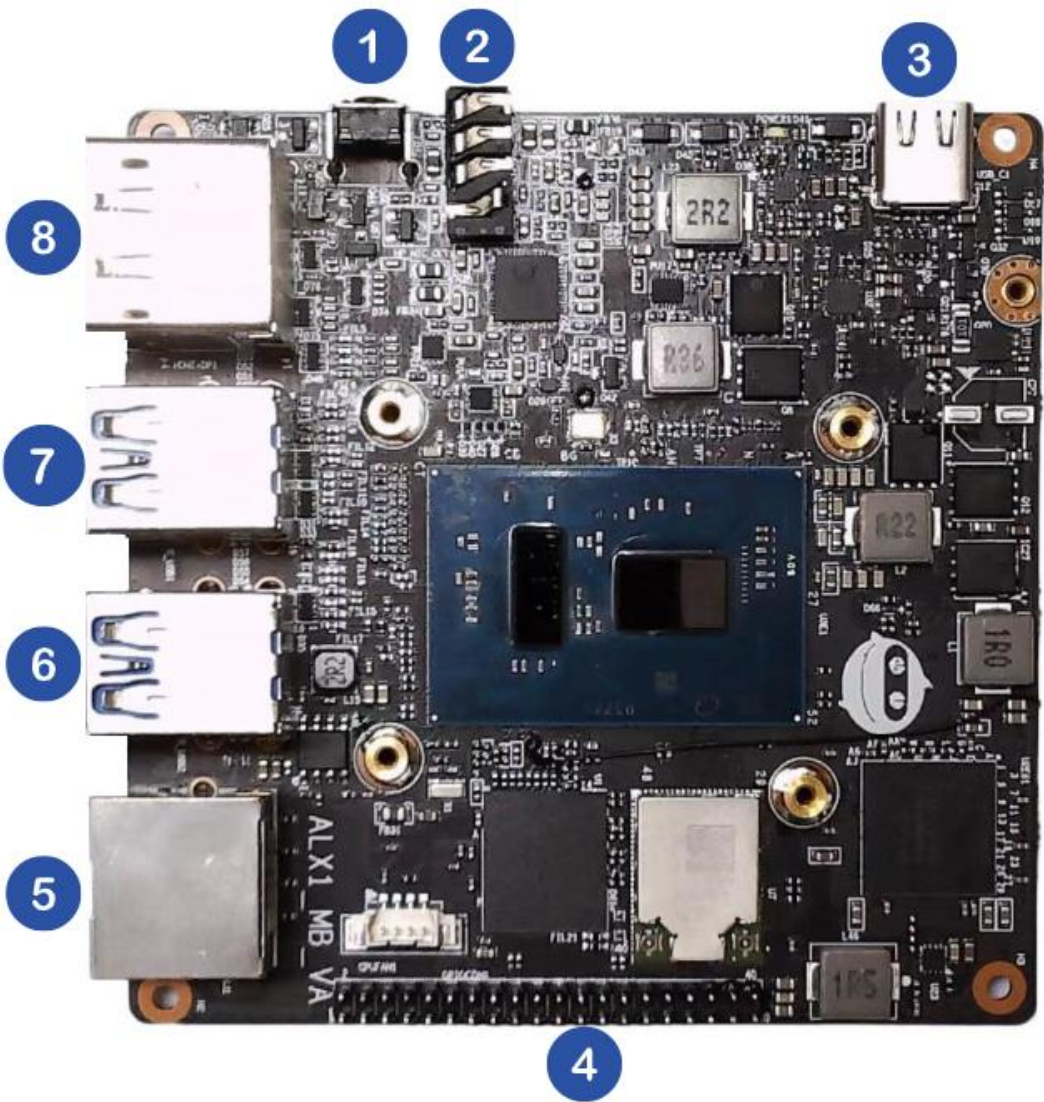
显示接口	1 * Type-A HDMI2.0 1 * DP1.4
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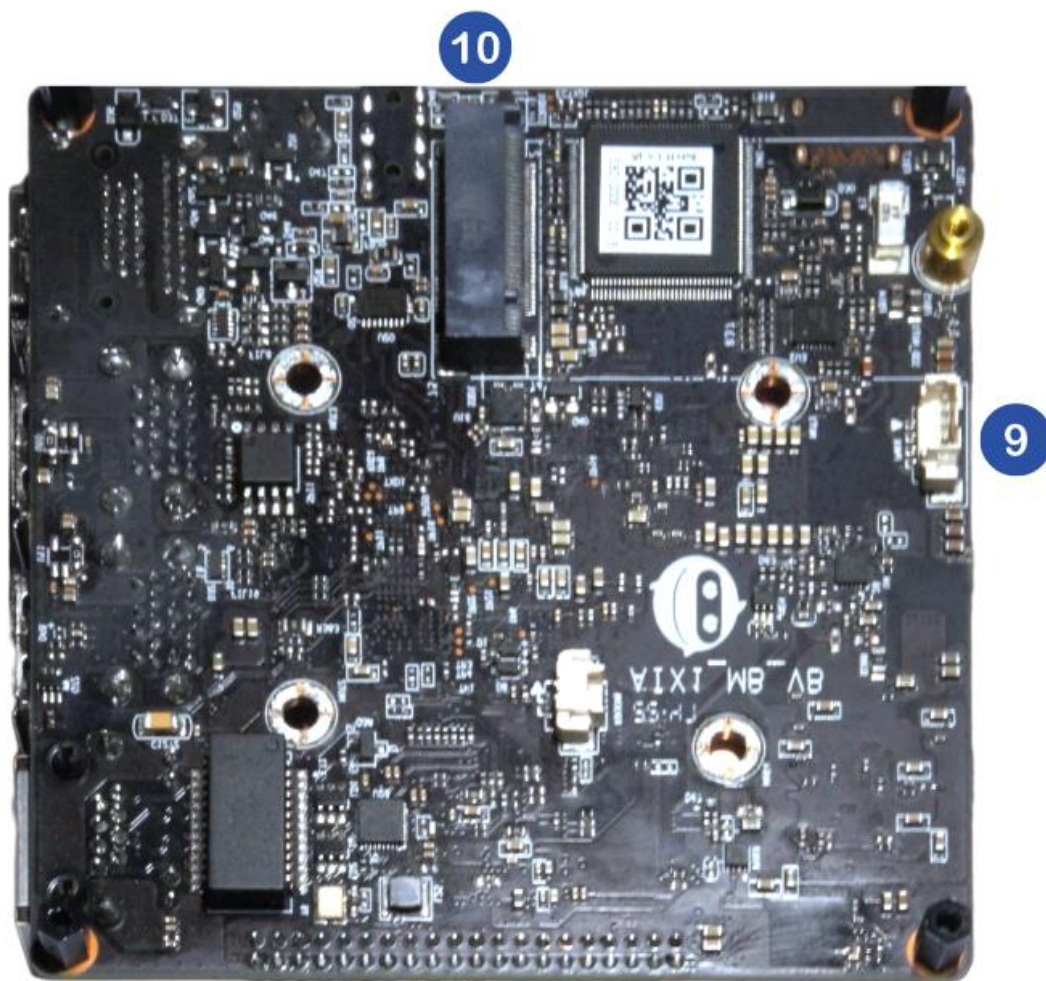
多显支持	两个
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其他内容

尺寸	85x85mm
温度	工作温度: 0℃ - 45℃ 存储温度: -10℃ - 75℃
湿度	5%~95% RH (non-condensing)
电源	DC 12V
整板功耗	低于 18W

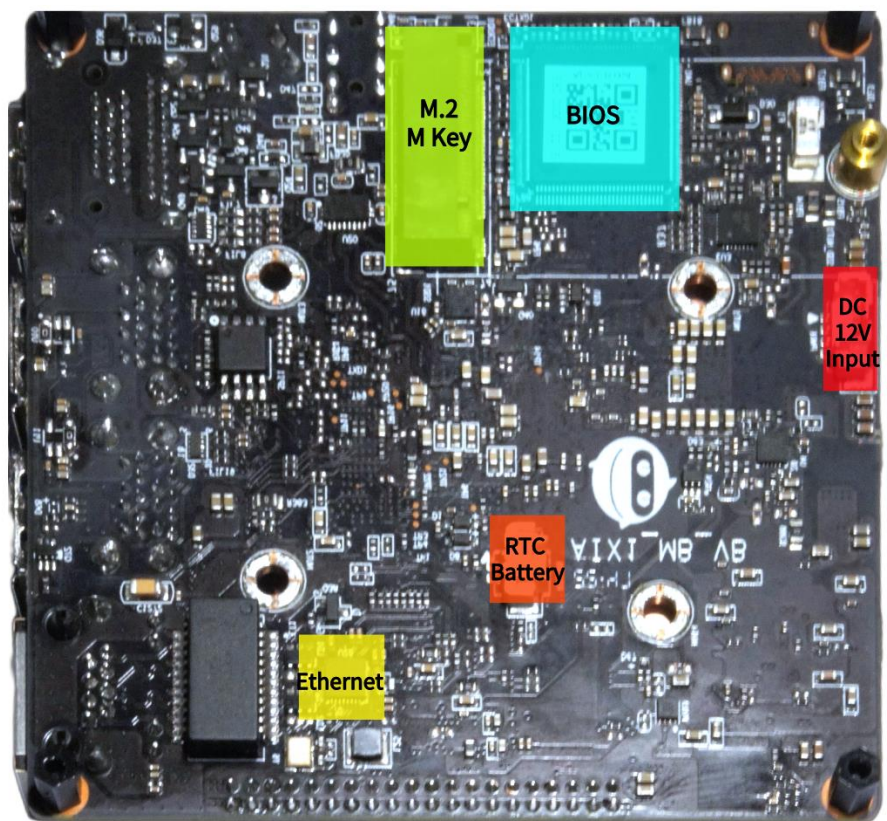
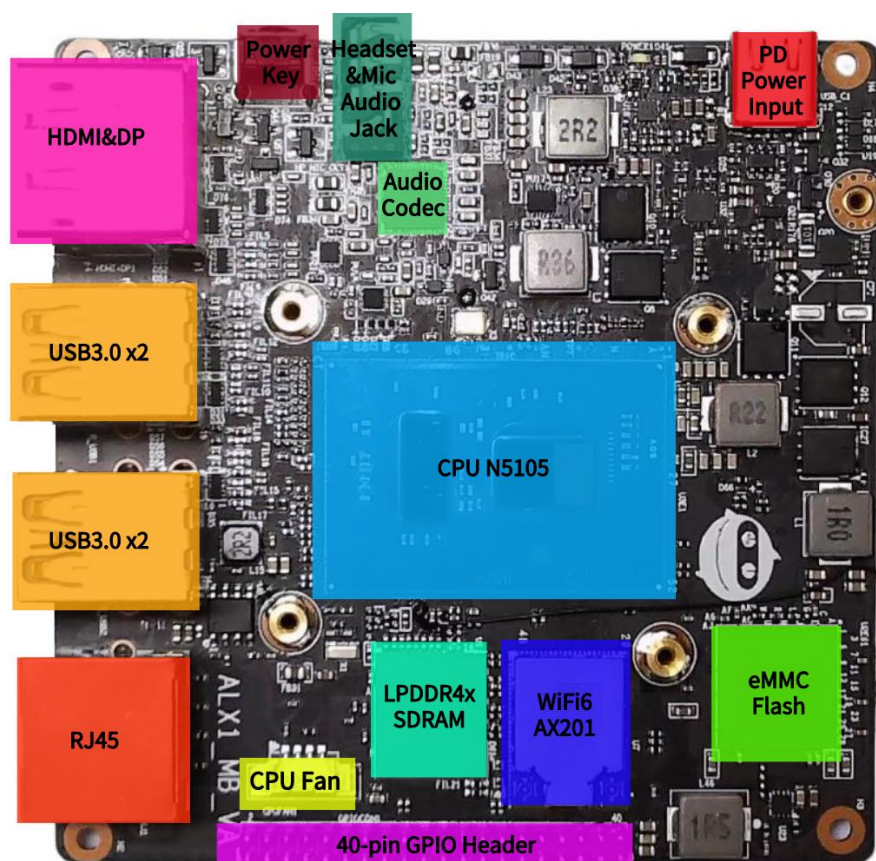
接口展示



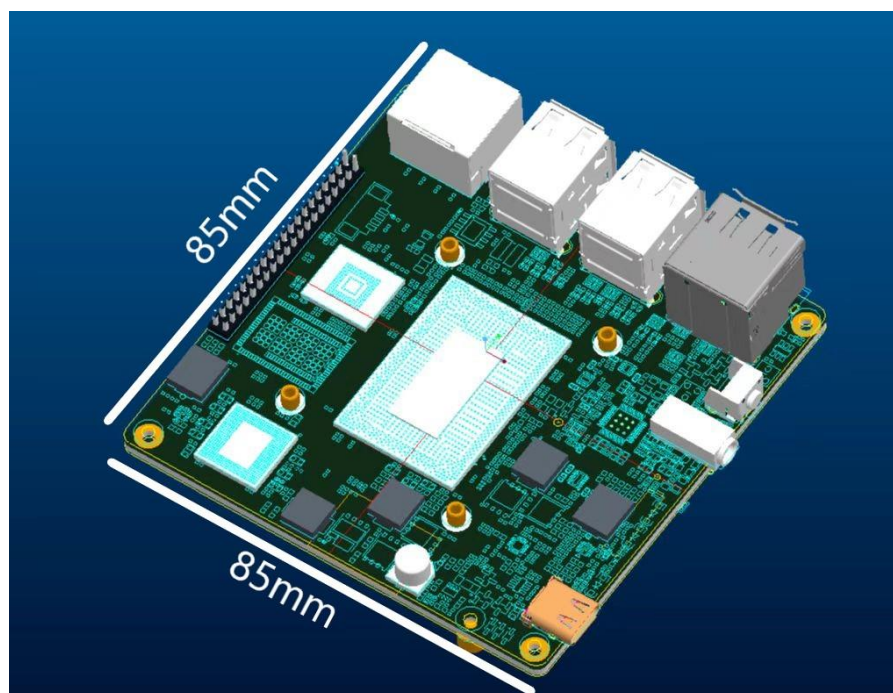


1	电源键
2	耳机&麦克风 2 合 1 3.5mm 接口
3	Type-C PD 电源输入
4	40-Pin GPIO 排针
5	RJ45 千兆以太网
6	USB3.0 Type-A x 2
7	USB3.0 Type-A x 2
8	DP x 1 , HDMI x1
9	DC 12V 输入板载 1.25mm 接口
10	M.2 2242 存储扩展

关键组件



尺寸



AIxBoard Edge Developer Kit Datasheet

- 11th Gen Intel® Celeron® processor N5105 (formerly Jasper Lake)
- Onboard LPDDR4x memory, up to 8GB
- Onboard eMMC storage, up to 64GB
- 1 * GbE, 4*USB3.0
- 1 * WiFi6 onboard Intel AX201
- 1 * M.2 Storage Expansion, support both SATA&NVME
- 1 * DP, 1 * HDMI
- Type-C PD power input, DC 12V power input
- AI Inference Unit: CPU/iGPU/GNA



Specifications

General

CPU	Intel Celeron® processor N5105 (formerly Jasper Lake)
GPU	Intel UHD iGPU 24EU 450MHz-800MHz
Memory	Onboard LPDDR4x 2933MHz, 4GB/6GB/8GB
Storage	Onboard 64GB eMMC Storage
Expansion Interface	1 * M.2 Key-M 2242, Supports SATA & NVME
BIOS	AMI UEFI BIOS
System	Ubuntu Windows 10/11

Inference Unit

CPU	INT8/FP16/FP32
iGPU	INT8/FP16
GNA	dedicated for voice processing

I/O Interface

Ethernet	1 * Gibabit Ethernet Controller, RJ45
USB	4 * Type-A USB3.0 1 * Type-C PD Power Input only
Wireless	1 * Intel AX201 WiFi6, BT5.1
Power Input	1 * Type-C PD Power Input 1 * DC 12V onboard slot
Others	1 * 3.5mm Jack Headset&Mic 2in1 1 * 40Pins-GPIO header

Display

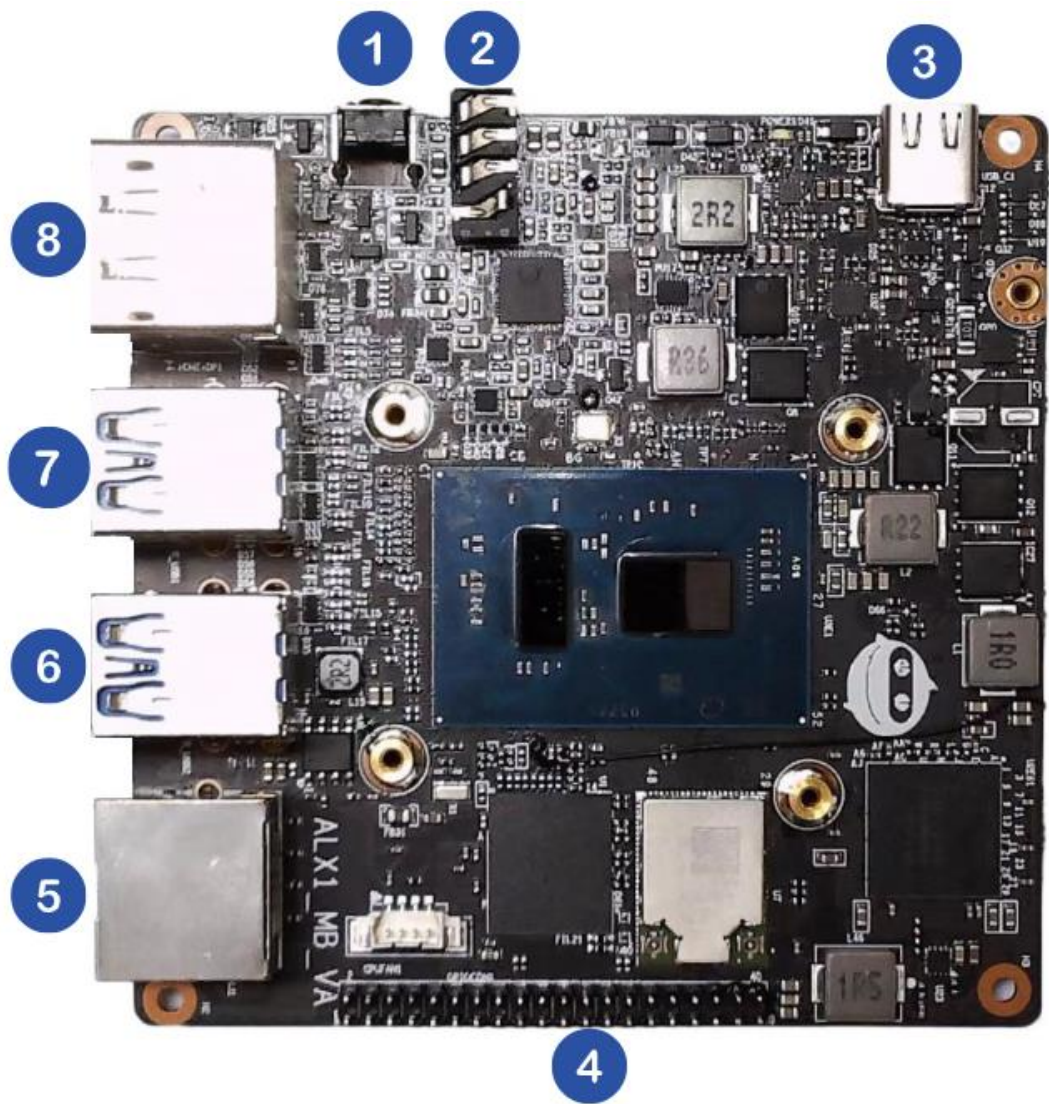
Display Interface	1 * Type-A HDMI2.0 1 * DP1.4
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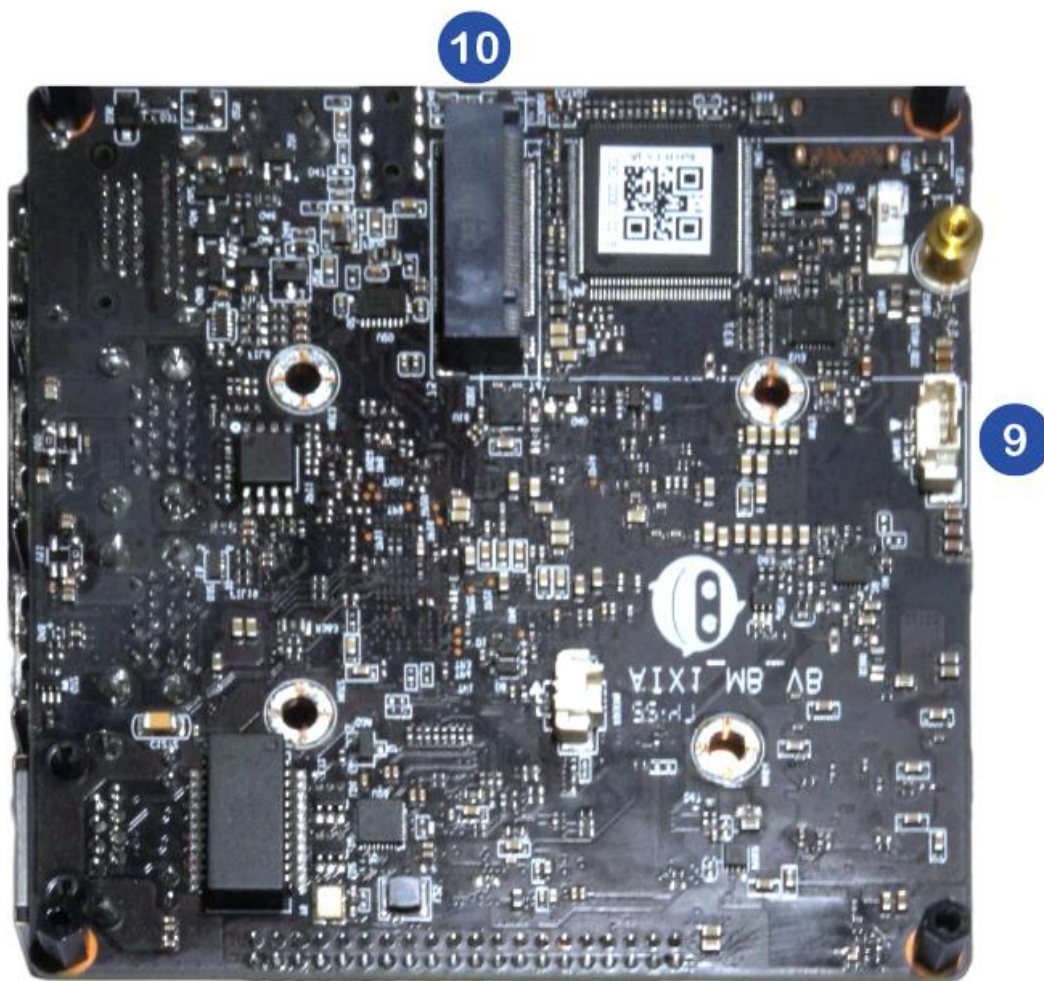
Multitple Display	Two
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Others

Dimension	85x85mm
Temperature	Operation: 0°C - 45°C Storage: -10°C - 75°C
Relative Humidity	5%~95% RH (non-condensing)
Power	DC 12V
Power consumption	Lower than 18W

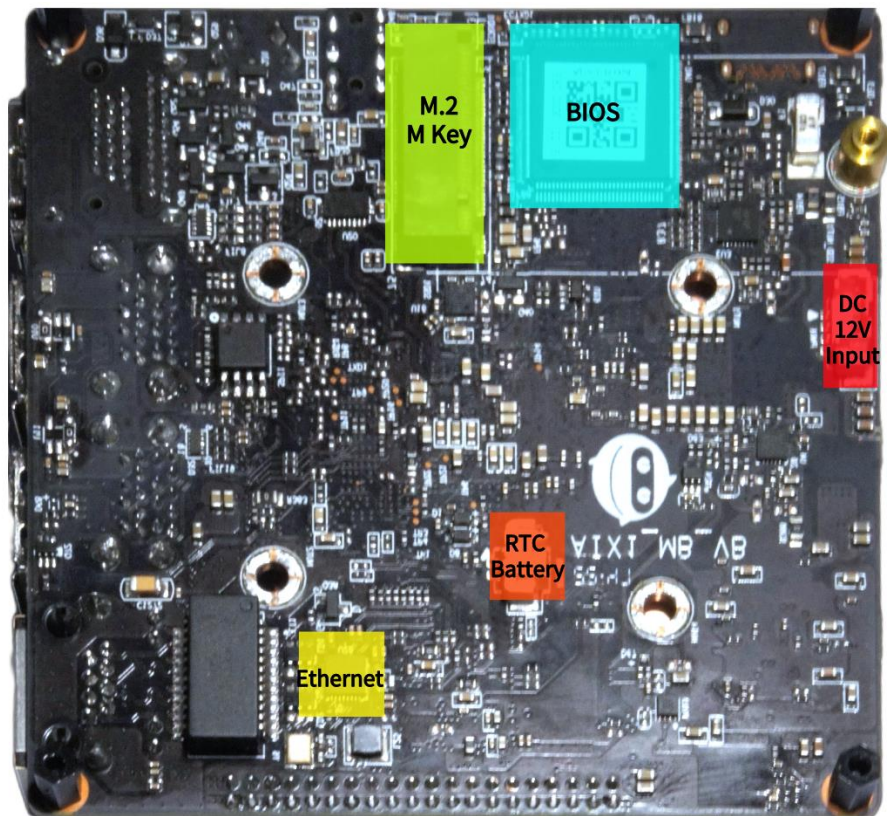
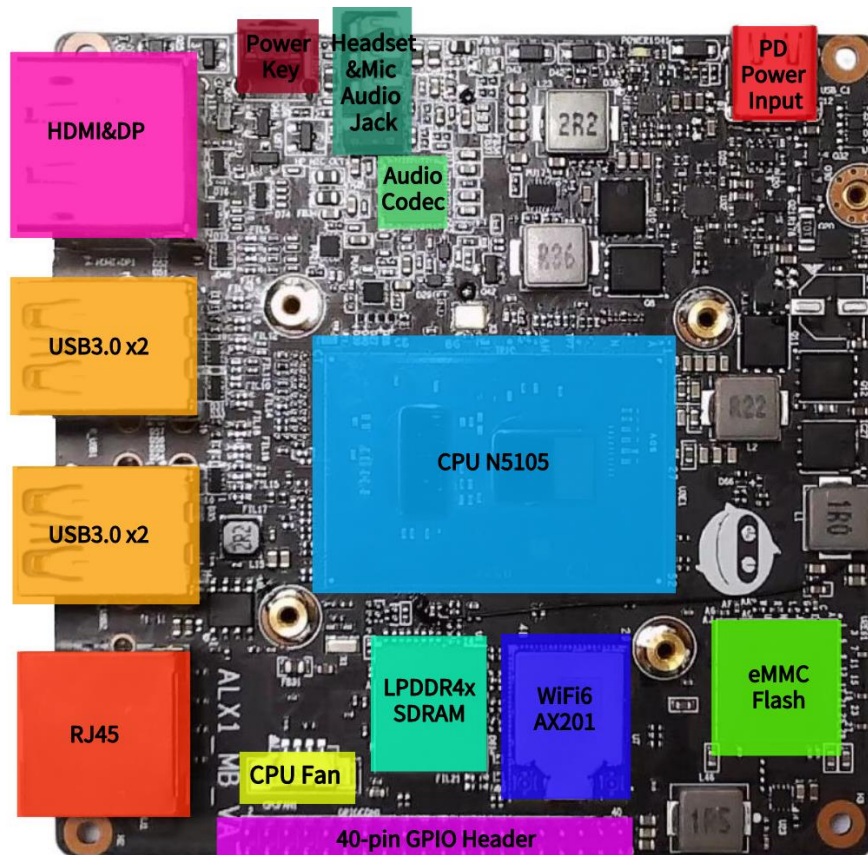
Product I/O View





1	Power Button
2	Headset & mic 2-in-1 3.5mm jack
3	Type-C PD Power Input
4	40-Pin GPIO Header
5	RJ45 Gigabit Ethernet
6	USB3.0 Type-A x 2
7	USB3.0 Type-A x 2
8	DP x 1 , HDMI x1
9	DC 12V Power Input 1.25mm Slot
10	M.2 2242 Storage Expansion

Key Components



Dimensions

