

T-CHIP TECHNOLOGY

**EC-R3308CC**

Mini Industrial PC

V1.0



T-CHIP INTELLIGENCE TECHNOLOGY CO.,LTD.  
[www.t-firefly.com](http://www.t-firefly.com)

## Update history

Version	Date	Details
V1.0	2020-7-25	Hardware Version: V1.2

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## 1. Overview

Mini industrial PC with safe and reliable industrial-grade case, and dual RJ45 Ethernet interfaces, able to operate various systems stably. High-performance and low power consumption, suitable for IoT, industrial control and so on.



### 1. IoT Quad-Core Processor

Rockchip RK3308B dedicated IoT processor, quad-core 64-bit Cortex-A35 core, frequency 1.3GHz, integrated high-performance Codec and Hardware VAD. Exhibits high-performance and low power consumption.

### 2. Dual RJ45 Ethernet Ports

Dual RJ45 Ethernet ports with speed up to 100Mbps, suitable for industrial control equipment, industrial control and other uses.

### 3. Support For Multiple OS

Supports Ubuntu and Buildroot (Linux/QT) embedded systems, stable operation for 7x24 hours. Available to be directly applied to IoT and other projects.

### 4. Portable Mini PC

Miniature industrial PC with only 100x84x20mm, small and portable.

### 5. High-quality Metal Case

High-quality industrial-grade metal case with frosted surface can protect against corrosion, dust and interference.

### 6. Industrial-grade Interfaces

USB2.0, TF Card, OTG, dual Ethernet ports and other interfaces can meet the needs in industrial applications.

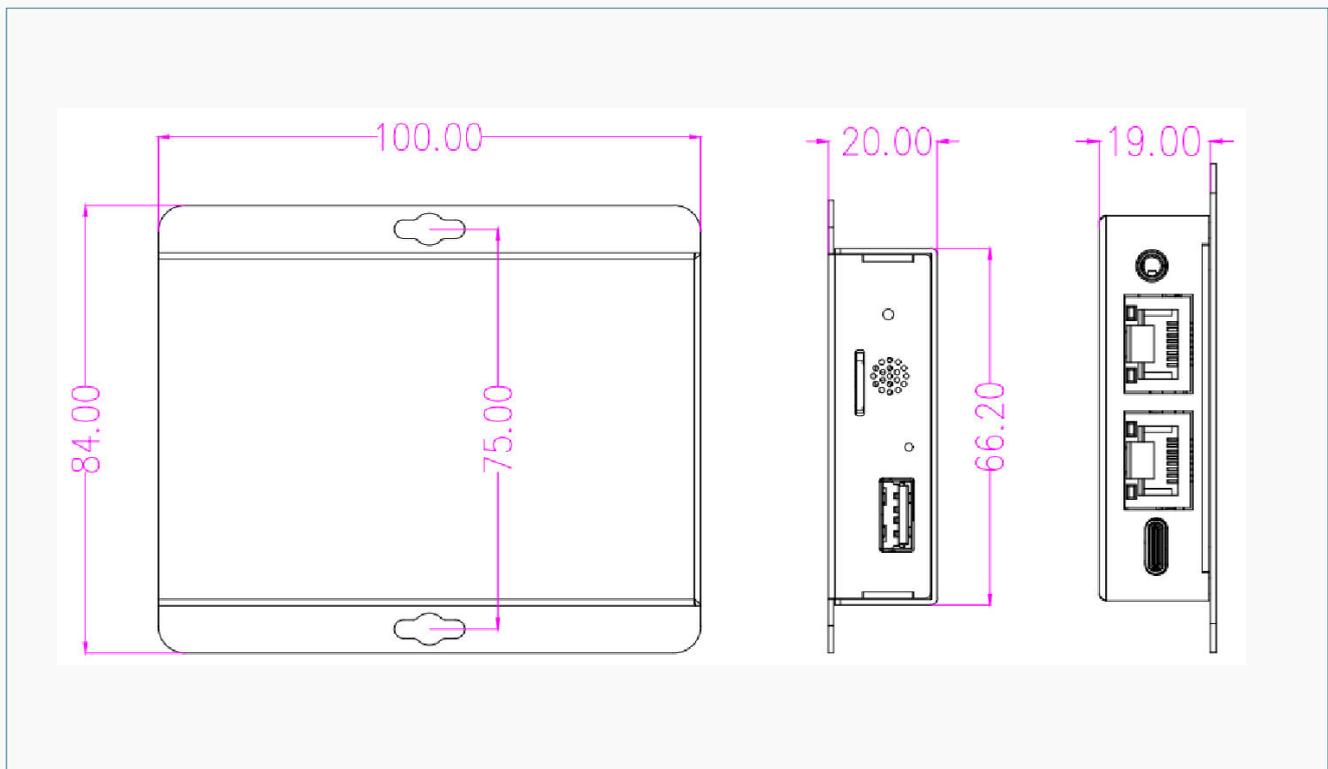
### 7. Open SDK

Open SDK, tutorials, technical materials and development tools to make development easier and more convenient.

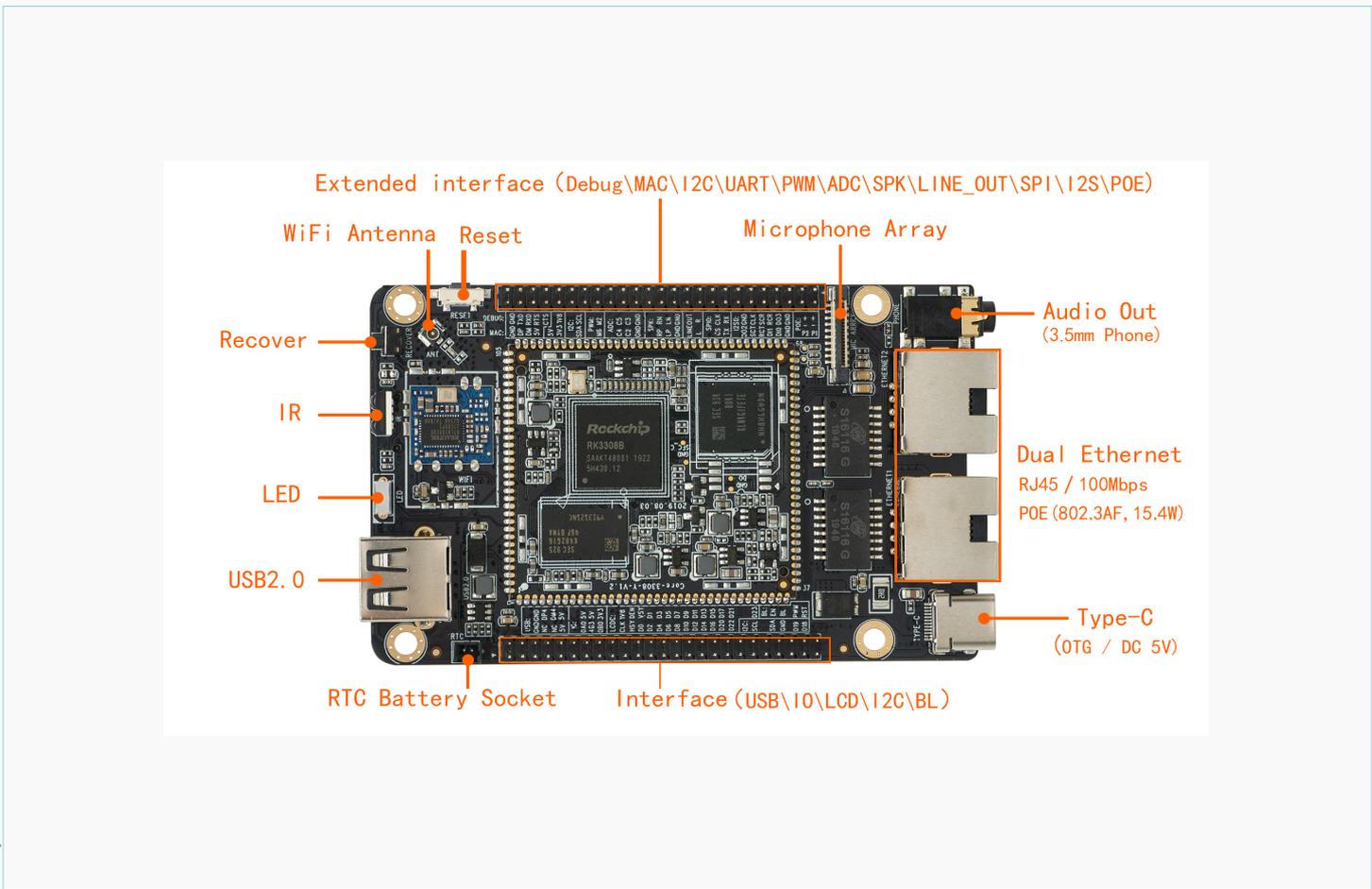
## 2. Specification

Specification	
SoC	RK3308B (28nm process)
CPU	Quad-core 64-bit ARM Cortex-A35, frequency up to 1.3GHz
RAM	512M DDR3 (128MB ~ 512MB)
Storage	4GB eMMC (4G/8G/16G/32G/64G/128G) Support MicroSD (TF) Card Slot expansion
Hardware Features	
Ethernet	Dual RJ45 Ethernet ports (100M bps)
WiFi	2.4GHz WiFi, support 802.11/b/g/n protocol
Audio	Phonex1(3.5mm) audio output
Interface	Type-Cx1 (DC IN / OTG), RJ45x2
Temperature	Operating Temperature : 0°C - 60°C
Power	DC 5V (powered by type-C)
OS / Software	
OS	Ubuntu, Buildroot (Linux/QT)
Appearance	
Size	100 mm x 84 mm x 20 mm

### 3. PCB Size



### 4. Interface description



## About us

### Company introduction

T-Chip Intelligent Technology Co., Ltd. was founded in 2005. It is a national high-tech enterprise. We focus on the research and development, design, production and sales of open source intelligent hardware, internet of things and digital audio products, and provide the overall solution for intelligent hardware products meanwhile.

The open-source brand "firefly" has an open-source community and online shopping mall on the Internet. At present, it has more than 200000 users and more than 5000 enterprise users, accelerating the R & D process for many technology entrepreneurs and start-ups, and providing professional technical services.

### T-CHIP INTELLIGENCE TECHNOLOGY CO.,LTD.

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### Shopping Mall

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