

2. Specifications

Specifications	
SOC	RK3308B (28nm process)
CPU	Quad-core 64-bit ARM Cortex-A35, frequency up to 1.3GHz
RAM	256M DDR3 (128MB ~ 512MB)
Storage	4GB eMMC : support 4G/8G/16G/32G/64G/128G NandFlash : support 128MB/256MB SPI Flash: 16MB ~ 512 MB Support MicroSD (TF) Card Slot extension
Hardware Features	
Ethernet	10M/100M bps Ethernet (RJ45 interface)
WiFi	Provide SDIO 3.0 signal, support 2.4GHz WiFi, support 802.11/b/g/n Support Bluetooth 4.2
Display	Support RGB / MCU display (up to 720P)
Audio	With built-in audio CODEC, including ADC x 6 Integrated high-performance Codec and Hardware VAD, supporting up to 8-channel MIC array Support digital audio interface(8CH I2S/TDM x 2, 8CH PDM, 2CH I2S/PCM)
USB	USB 2.0 × 1、 USB2.0 × 1 (OTG)
Debug	Debug UART × 1, be used for development and debugging
Interface	Support PWM×11 (including multiplexing), UART×5, ADC×6, I2C×4, SPI×1, I2S×1, LineOut Support digital audio interface (8CH I2S/TDM x 2, 8CH PDM, 2CH I2S/PCM) support modules such as acceleration sensor, temperature humidity sensor, distance sensor, GPRS, and NB-IOT
OS/Software	
OS	Support multiple operating systems, such as Buildroot, Linux + MiniGUI/QT, ROS(Robot Operating System) Support multiple speech systems and services, such as Baidu DuerOS, AISpeech, iFLYTEK, and Amazon Alexa
Appearance	
Size	45mm × 40.2 mm
Type	Interface (136Pin, 1.2mm pitch)
PCB	6-layer board design

3. PCB Size

