

## 2. Specifications

Basic Specifications	
SoC	RK3308B (28 nm lithography process)
CPU	Quad-core 64-bit ARM Cortex-A35, frequency 1.3GHz
RAM	256M DDR3 (128MB ~ 512MB optional)
Storage	4GB eMMC: Supports 4G/8G/16G/32G/64G/128G SPI Flash: Supports 16MB ~512 MB Supports MicroSD (TF) Card Slot expansion
Hardware Features	
Ethernet	Dual RJ45 Ethernet ports (100M bps)
WiFi	Supports 2.4GHz WiFi, supports 802.11/b/g/n protocol
Audio	Built-in CODEC, includes 8-channel ADC, integrated high-performance Codec and Hardware VAD
Interface	PSAM × 1 CAN × 1 SIM 4G × 1 RJ45 100M Ethernet port × 2 RS232 × 1 RS485 × 3 DC IN (12V) × 1 Type-C (OTG) × 1 DIN × 1 DOUT × 1 Phone × 1 TF-Card × 1 USB 2.0 × 1
OS/Software	
OS	Supports Buildroot (Linux) embedded system, Ubuntu 18.04
Wireless communication	Supports 4G LTE Cat1 wireless communication module, which can realize seamless connection to any operator's 4G network; Supports NB-IOT communication, global frequency band B1/B3/B5/B8/B20/B28 and so on, fast and low-power; Supports industrial-grade long-distance LoRa communication at 868MHz, and the outdoor line-of-sight communication distance is up to 8km, high stability.
MQTT Protocol	Supports Modbus standard industrial protocol to MQTT protocol; Supports Alibaba Cloud and other private cloud; Suitable for IoT PLC data acquisition and equipment control.
Cryptography Algorithms	The onboard PSAM card slot is convenient for the system to integrate the PSAM card; Has type approval, powerful data encryption and decryption functions — providing excellent-performance DES/3DES, AES, SHA, RSA, ECC, and Chinese commercial cryptography algorithms SM1/SM2/ SM3/SM4 and others.
General	
Size	99.4 mm * 84 mm * 35.2 mm
Operating Temperature	-10°C ~ 60°C
Operating Humidity	10% ~ 90 %

### 3. Size



## 4. Interface Describe

