

MarsBoard RK3066 Pro, mini PC

SKU: MarsBoard RK3066 Pro
Brand: -

\$139.99

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DESCRIPTION

PACKAGE CONTENT

REVIEWS

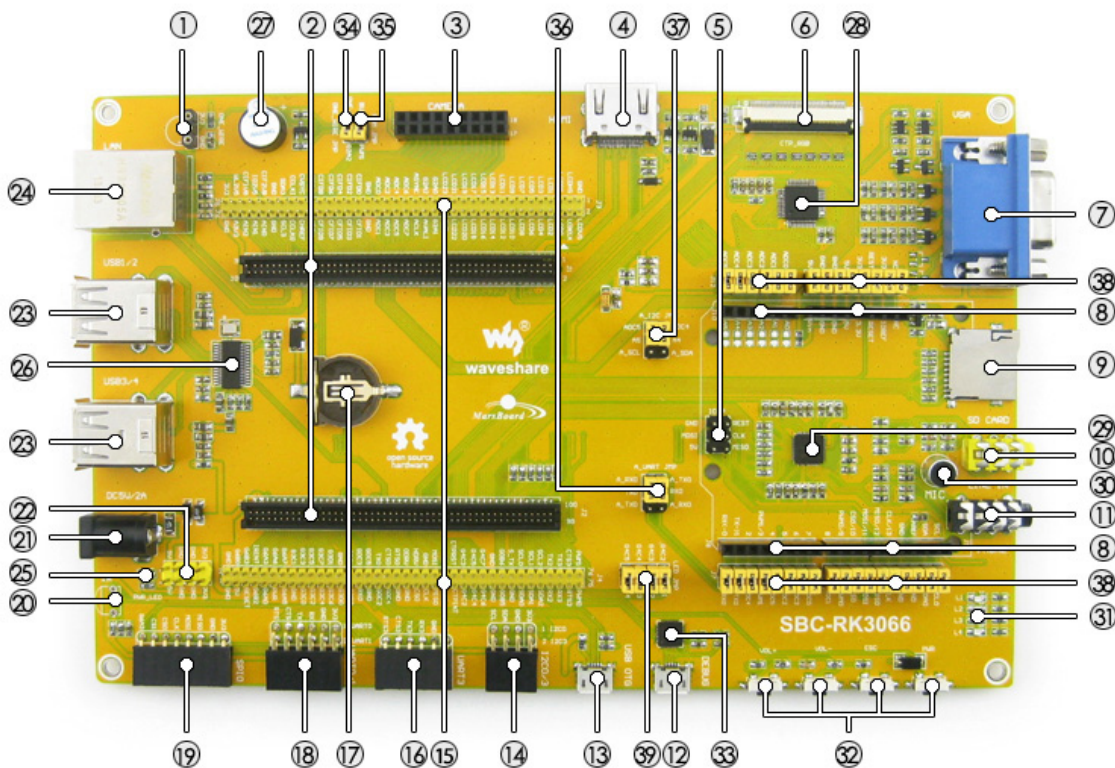
MarsBoard RK3066 Pro, Flexible Designed development board powered by Rockchip SOC, Dual core ARM Cortex A9 CPU, Quad core Mali-400 MP GPU

Overview

The MarsBoard RK3066 Pro is a flexible Designed development board powered by the popular Rockchip dual core SOC combining a power dual core ARM Cortex A9 CPU and Quad core Mali-400 MP GPU.

The MarsBoard RK3066 Pro consists of a base board and and a CPU module, comes with various interfaces like USB, HDMI, CSI, LCD, VGA, Arduino, LAN, UART, SPI, I2C, etc.

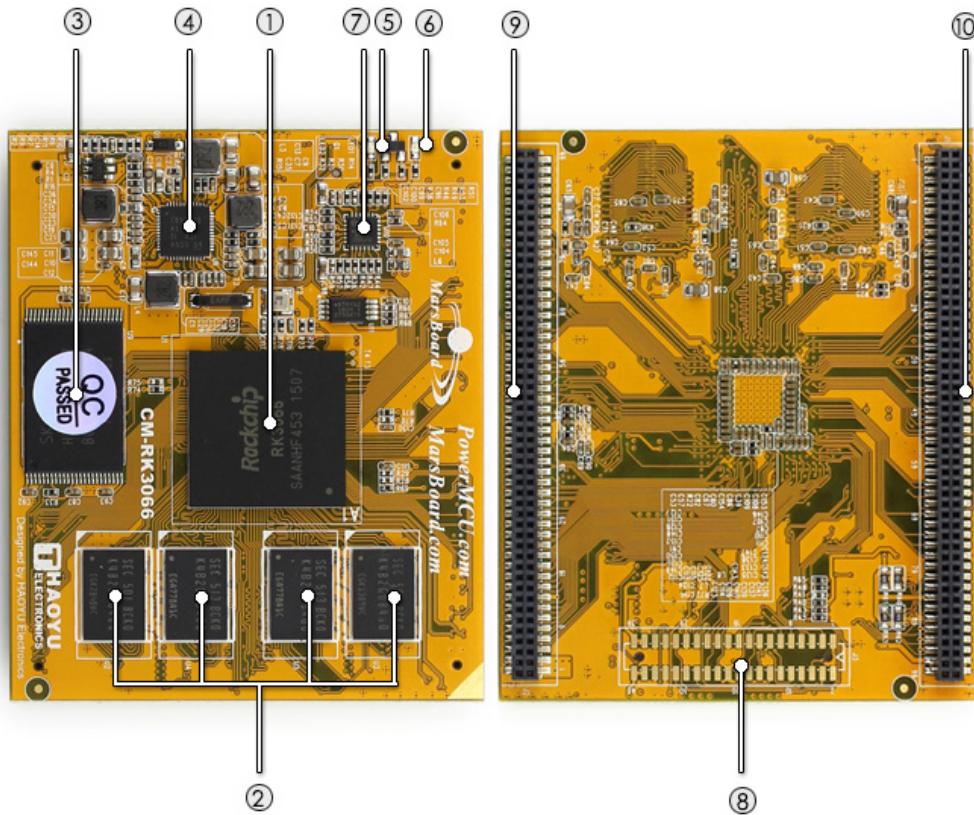
What's on the Base Board



1. **ONE-WIRE interface** : easily connects to ONE-WIRE devices (TO-92 package), such as temperature sensor (DS18B20), electronic registration number (DS2401), etc.
2. **CPU module connector** : for connecting CM-RK3066
3. **CSI camera connector** : for connecting CSI camera modules like OV2640 Camera Board
4. **HDMI connector** : for connecting HDMI devices like monitor
5. **ICSP interface**
6. **LCD interface** : for connecting 7inch capacitive touchscreen LCD
7. **VGA connector** : for connecting VGA devices through a VGA cable
8. **Arduino interface** : for connecting Arduino shields like Motor Driver Shield
9. **Micro SD card slot**

10. **3.5mm LINE IN jack** : audio input
11. **3.5mm Headphone jack**
12. **DEBUG interface** : for debugging the CPU kernel via serial port, and/or messages input/output
13. **OTG interface** : can be used to burn Image into the CPU module CM-RK3066
14. **I2C interface** : for connecting I2C modules like PCF8563 RTC Board, MAG3110 Board, etc.
15. **CPU module expansion header**
16. **UART interface** : for connecting UART modules like RS485 Board (3.3V), GPS Module, etc.
17. **Battery holder** : for the CPU module RTC
18. **UART (with flow control) interface** : for connecting UART (with flow control) modules like FT232 USB UART Board, etc.
19. **SPI interface** : for connecting SPI modules like AT45DBXX Dataflash Board, etc.
20. **IR interface** : for soldring IR receiver like HS0038B
21. **Power supply** : provides power to the CPU module
22. **Power input/output**: usually used as power output, also common-grounding with other user board
23. **USB connector** : for connecting USB devices like USB Mouse/Keyboard, USB Camera, USB Wifi, etc.
24. **LAN connector** : for connecting to the Ethernet
25. **Power indicator**
26. **FE1.1S** : USB Hub chip
27. **Buzzer**
28. **GM7123C** : LCD to VGA converter
29. **ALC5631** : audio decoder
30. **Microphone**
31. **User LED**
32. **AD button** : Arduino regular buttons
33. **CP2102** : UART to USB converter
34. **ONE-WIRE jumper**
35. **Buzzer jumper**
36. **Arduino UART selection jumper**
 - short the upper two pins while connecting an Arduino host board
 - short the lower two pins while connecting an Arduino UART shield
37. **Arduino AD selection jumper**
 - short the upper two pins while connecting an Arduino ADC shield
 - short the lower two pins while connecting an Arduino I2C shield
38. **Arduino Port selection jumper**
 - controlling the Arduino IO connection while connecting an Arduino host board

What's on the CM-RK3066



1. Rockchip RK3066

- CPU: ARM Cortex A9 Dual core @1.6GHz
- GPU: Mali-400 MP Quad core @400Mhz
- 2D accelerator
- Media accel: 1080p decode/encode, h264 vp8 encode
- RAM types: DDR3, DDR2, LPDDR2, etc.
- Display outputs: 5 layers, 2 flat panel, HDMI 1.4a (3D)
- Camera: supports dual cameras
- Boot devices: NAND, eMMC, USB, serial
- DVFS (Dynamic Voltage and Frequency Scaling)

2. 1GB DDR3 SDRAM

3. 8GB Nand Flash & eMMC FLASH

4. Power management: TPS659102

5. TX indicator LED: for debugging

6. Power indicator LED

7. 10/100M Ethernet PHY: LAN8720A

8. J3 expansion: 20x2 pin 1.27MM

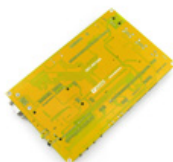
9. J2 expansion: 50x2 pin 1.27MM

10. J1 expansion: 50x2 pin 1.27MM

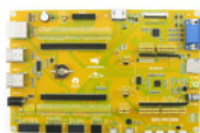
Photos



SBC-RK3066 base board



SBC-RK3066 base board



SBC-RK3066 base board



Connecting with CM-RK3066