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New MarsBoard A20 Dev Board

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Description

New MarsBoard-A20 contains CM-A20 and SOM-A10&A20, SOM-A10&A20 is OSHW and PCB files are available for study, learn, modification, re-production.

CM-A20 is System on Chip module, which contains Allwinner A20 Dual Core Cortex-A7 processor, Power management Unit AXP209, Ethernet PHY LAN8710A, 1GB DDR3 memory and 8GB NAND Flash. All Allwinner A20 signals are available on 2 connectors x 100 pin and 1 connector x 40 pin with 1.27mm pitch.

Features

- SoC – AllWinner A20 ARM Cortex A7 Dual-Core CPU @ 1GHz + Mali-400 GPU
- System Memory – 1GB DDR3 DRAM, up to 2GB DDR3 DRAM @ 480Mhz
- Storage – 8GB Nand Flash
- Ethernet – 10/100 Mbps
- Connector - 2 connectors x 100pin, 1 connector x 40pin(No welding)
- Size - 70 x 50mm

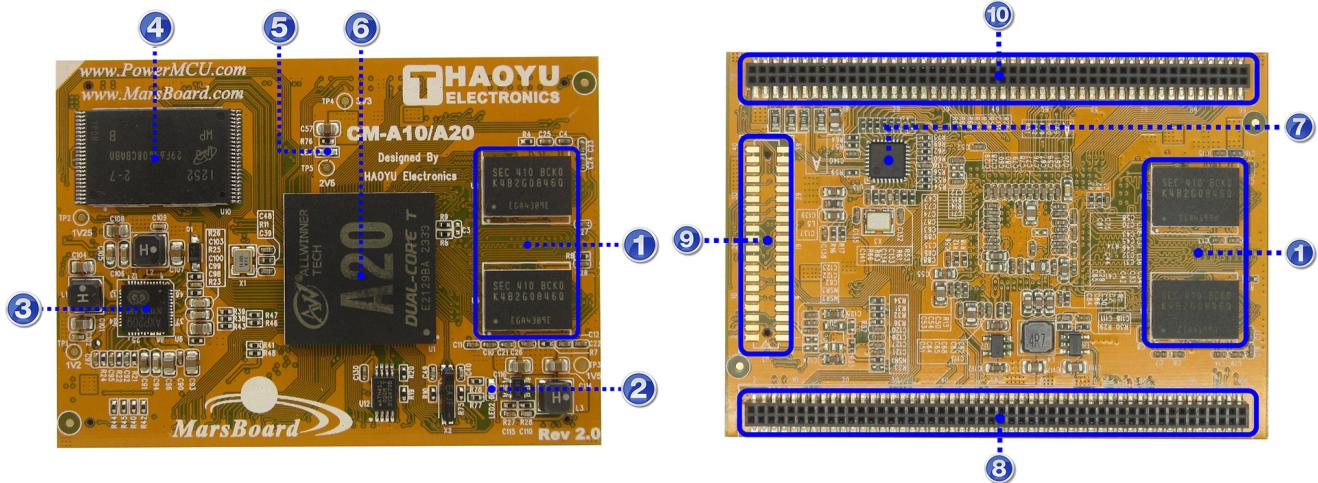
SOM-A10&A20 is evaluation board based on CM-A20 module and is routed on 2 layers only. SOM-A10&A20 is done to explore all features of A10/A20 but the files are available and customers can tailor it to their needs.

Reference design for SOM-A10&A20 with VGA, HDMI, LCD, CTP, Audio In/Out, Camera, 10/100M Ethernet, SATA, USB-OTG, TV-In/Out, Wifi and 4 USB hosts is available with PADS9.5, Protel99SE, AD, PCB files, so everyone can modify and tailor to his needs.

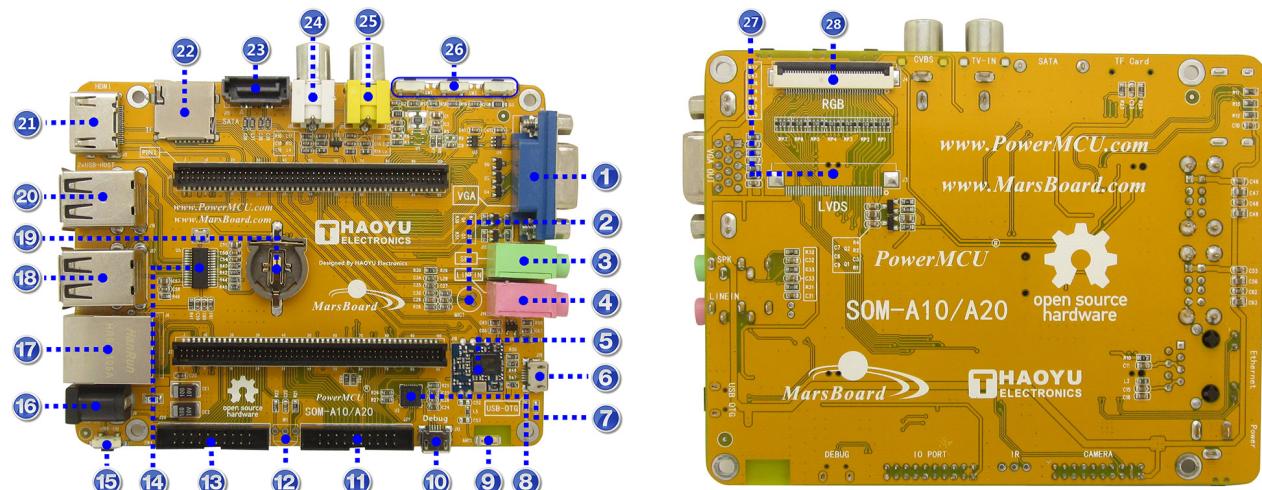
Features

- Connectors to accomodate CM-A10/A20
- 10/100M Ethernet connector
- SATA connector
- USB hosts x 4
- USB-OTG
- LCD connector support [HY050CTP](#)(800x480), [HY070CTP](#)(800x480), [HY101CTP](#) (1024x600) RGB interface only, [HY070CTP-HD](#)(1024x600), RGB and LVDS interface all support
- CTP, Capacitive touch
- HDMI connector supported 1080p@60Hz
- VGA connector
- Camera connector
- Audio In/Out
- MIC input (No welding Microphones)
- IR Remote (No welding IR receiver)

- TV In/Out
- Integrated WIFI-RTL8188EU + Antenna
- SD-MMC card connector
- 4 buttons for Android apps
- USB Debug terminal (USB to UART with CP2102)
- RTC Battery connector
- One UEXT connector
- Power supply 5V/2A input, 5.2mm(ext. diameter) x 2.1mm (int. diameter) barrel plug
- Size 115 x 90mm



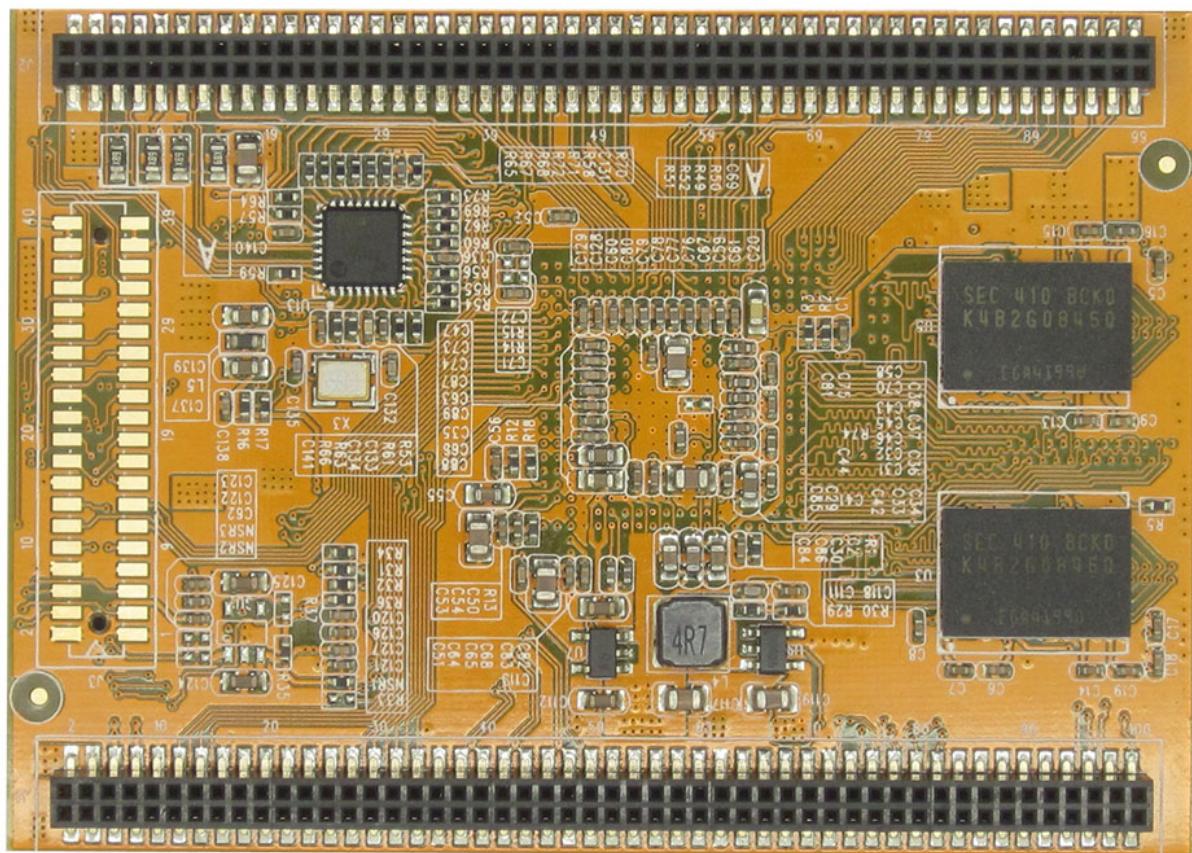
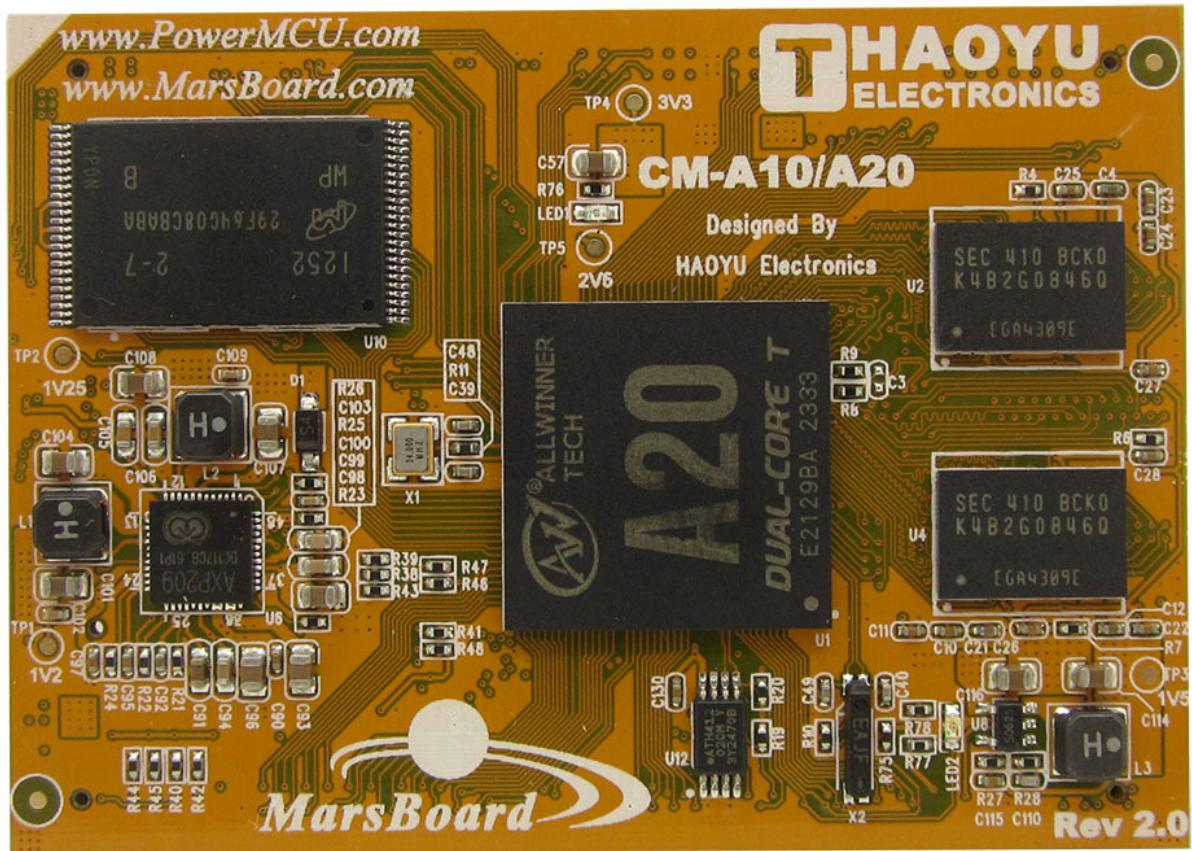
1. 1GB DDR3 SDRAM & 2GB DDR3 SDRAM
2. TX indicator LED use for debug
3. Power Management Unit - AXP209
4. 8GB Nand Flash & eMMC FLASH
5. Power Indicator LED
6. Allwinner A20 ARM Cortex A7 Dual-Core @ 1Ghz + Mali-400 GPU
7. 10/100M Ethernet PHY - LAN8710A
8. J1, expansion 50x2 pin 1.27MM
9. J3, expansion 20x2 pin 1.27MM
10. J2, expansion 50x2 pin 1.27MM

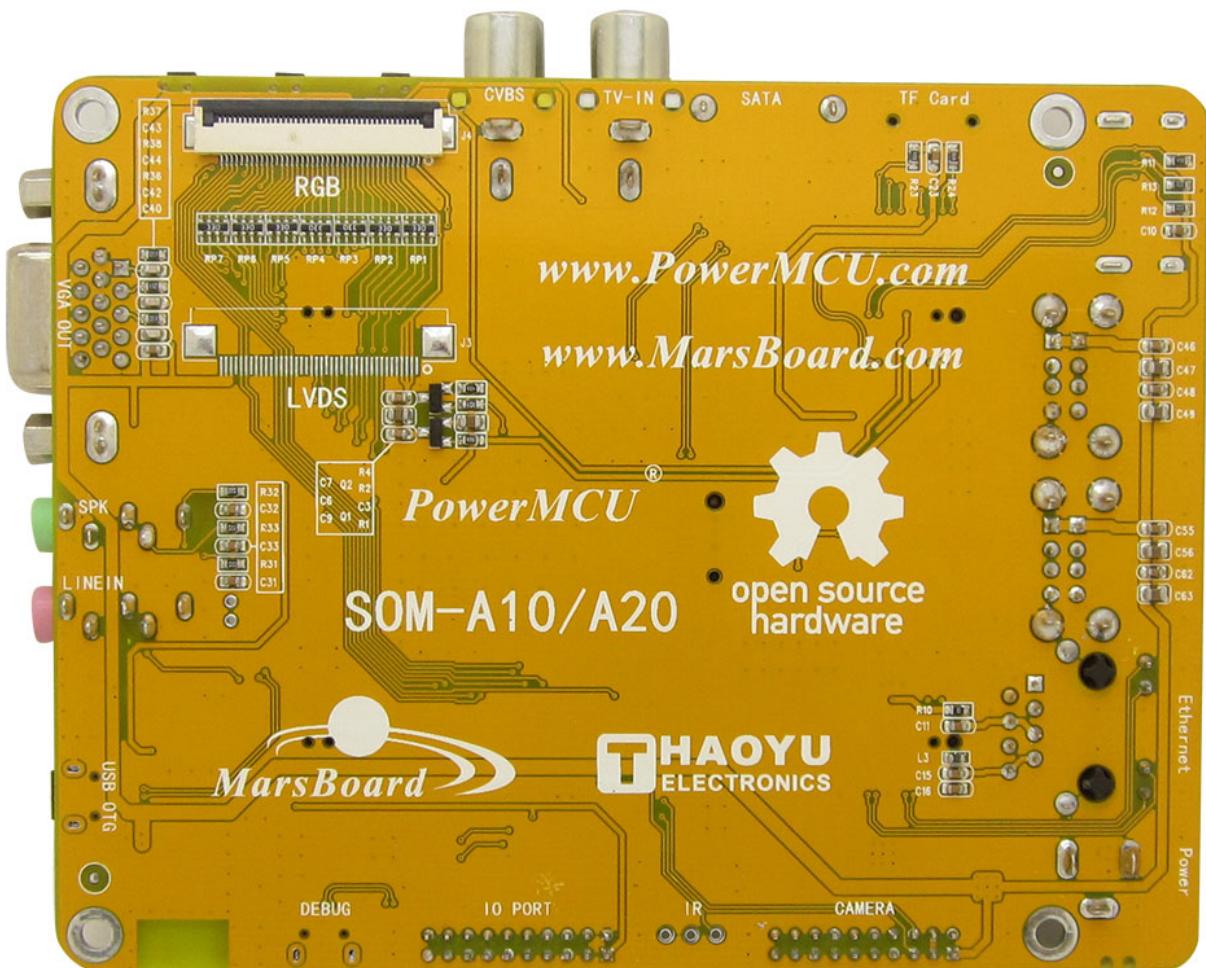
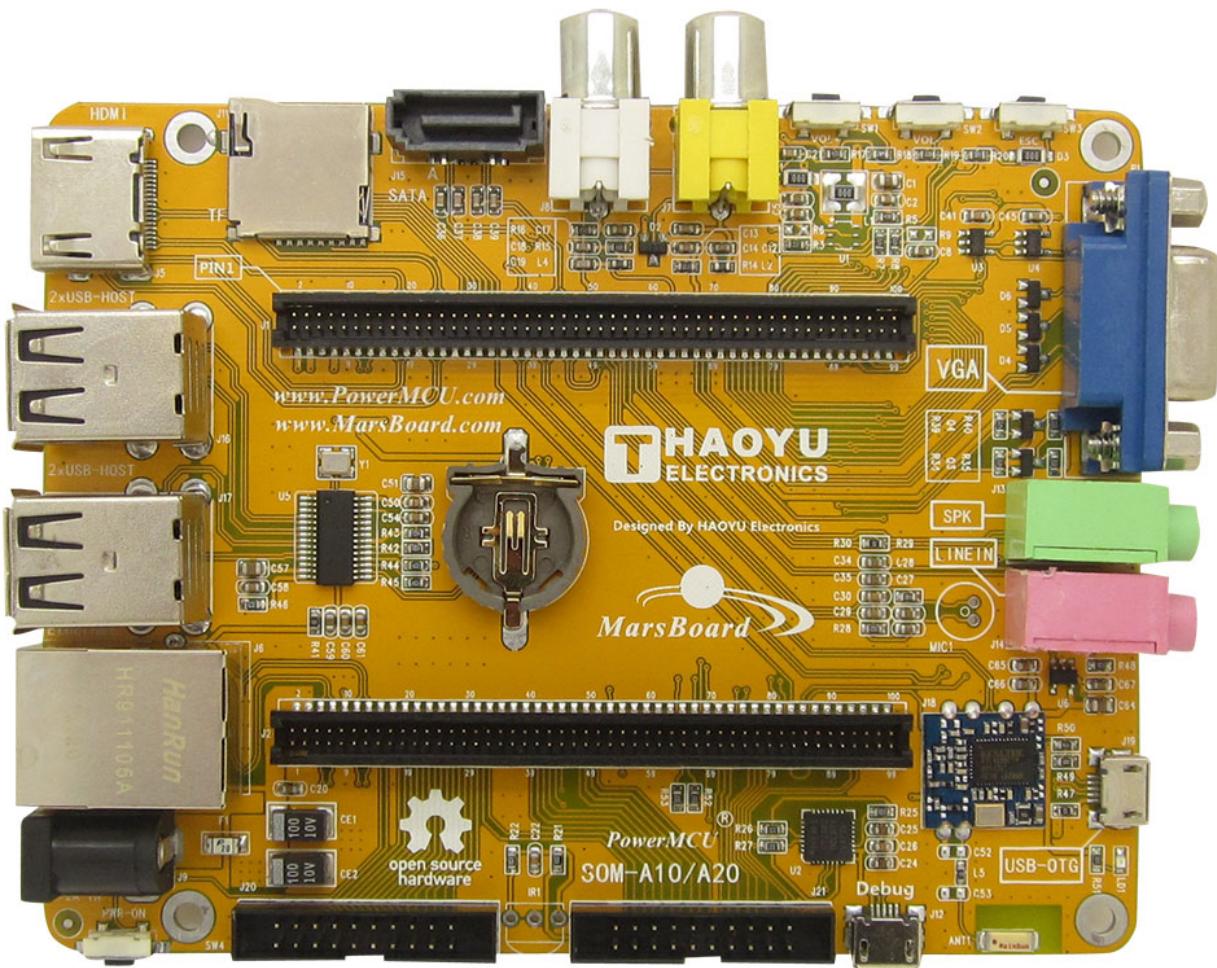


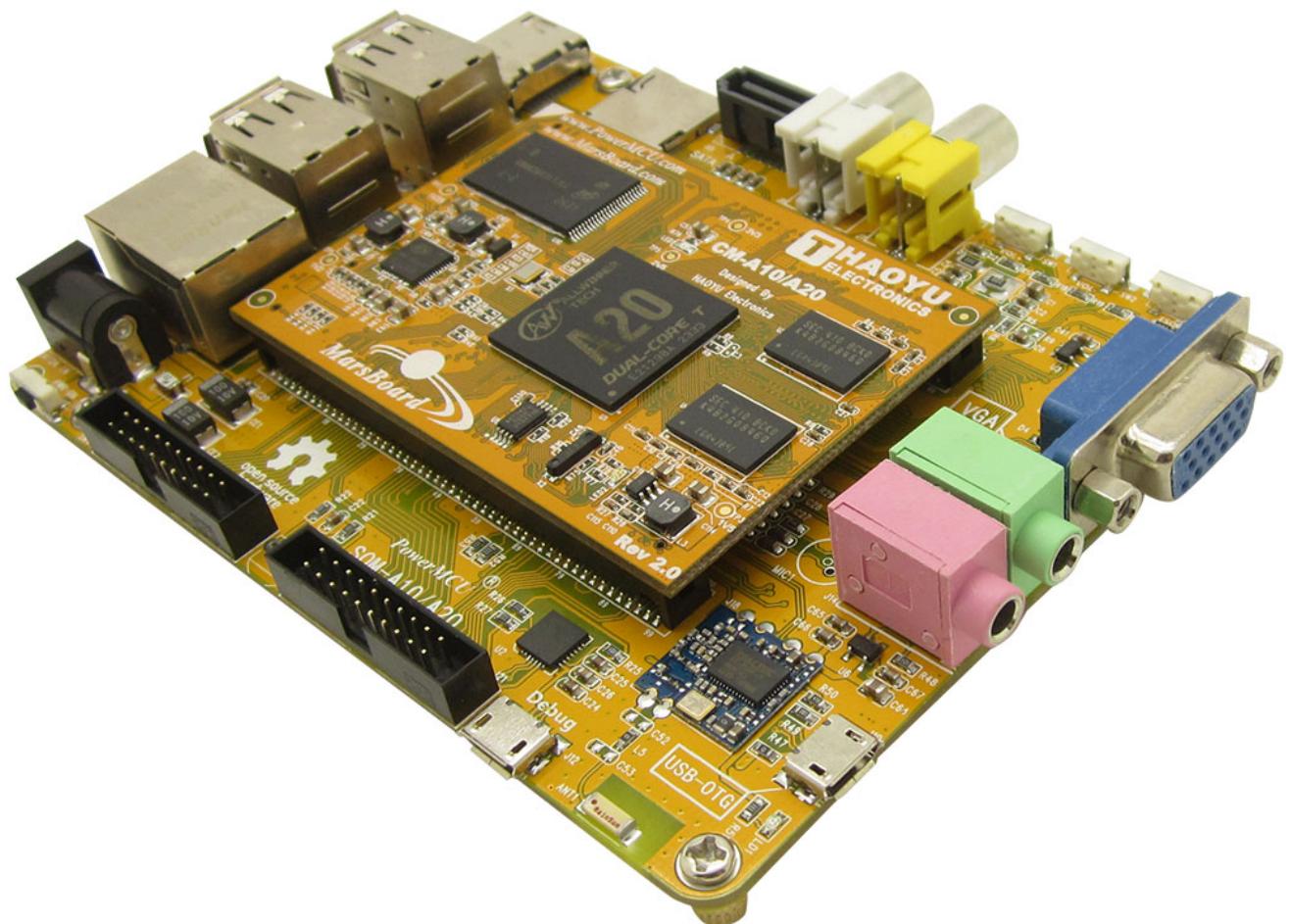
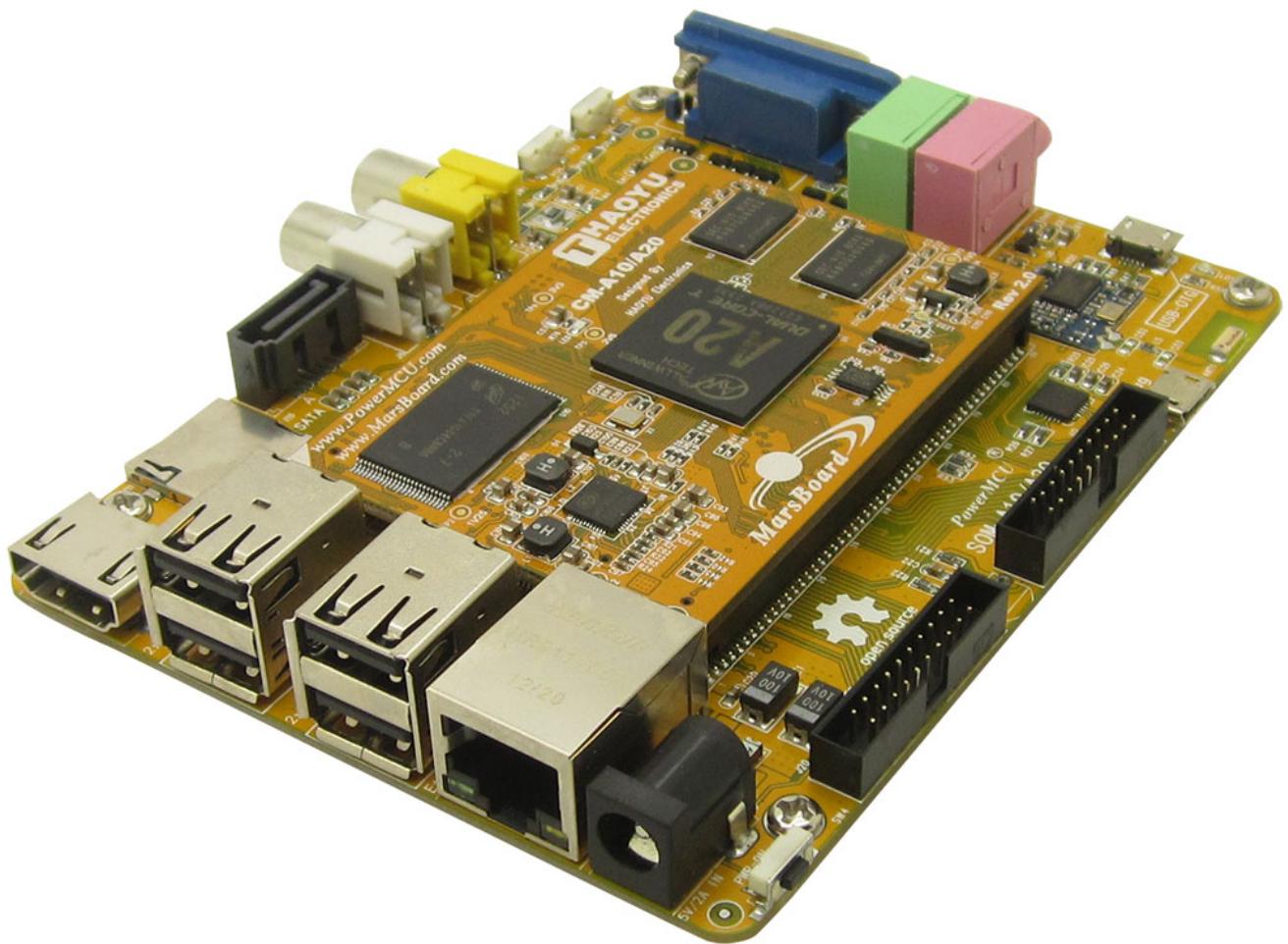
1. VGA connector
2. MIC input (No welding Microphones)
3. Audio Headphone Output
4. Audio LineIN
5. RTL8188EU WIFI Modules
6. USB-OTG Port
7. Power Indicator LED
8. USB to UART, CP2102
9. WIFI Antenna
10. USB Debug port
11. EXT connector
12. IR Receiver - not soldered
13. Ext Port - Camera CIF port
14. USB 2.0 Host IC - FE1.1S
15. Power button

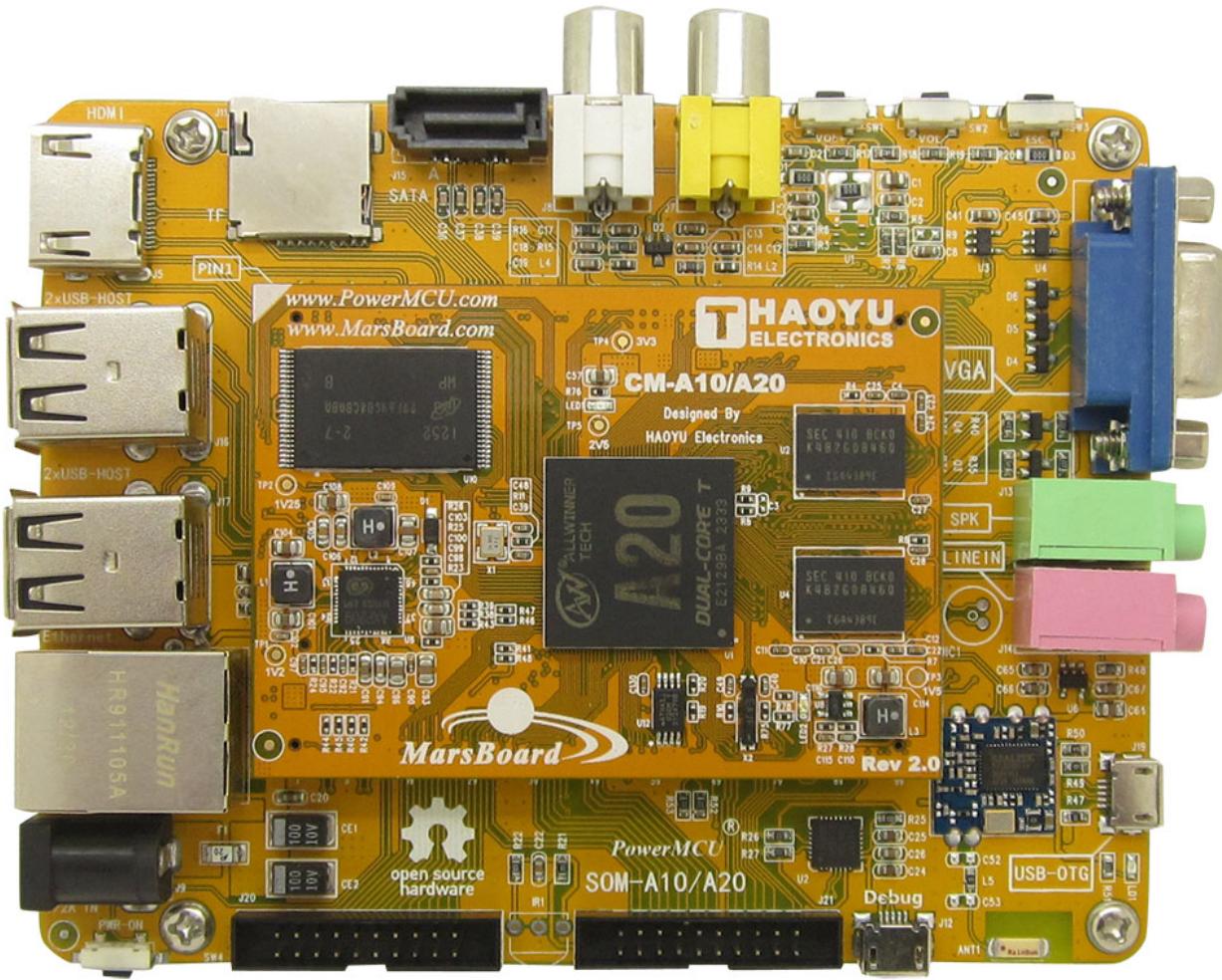
16. Power Supply - 5V/2A
17. RJ45 10/100M Ethernet
18. 2 x USB 2.0 Host port
19. CR1220 RTC Battery Holder
20. 2 x USB 2.0 Host port
21. HDMI A Type socket
22. mrcro SD card (TF card)socket
23. SATA socket
24. TV In
25. TV Out
26. VOL + Key, VOL - Key, ESE & Uboot Key, (from left to right)
27. LCD RGB Interface
28. LCD LVDS Interface - not soldered

MarsBoard-A20 is base on Allwinner A20 processor. A20 is one of the popular processors using in the MID or TV box. It integrates two ARM Cortex-A7 processors and two mali400 graphic processors .It is one of the most powerful video decoding application processor in the world. MarsBoard-A20 supported Linux OS(Debian,Ubuntu etc) and Android, MarsBoard-A20 also integrate most of the common use interface and make it very suitable for product prototype designed, DIY and education.









Package content

1. MarsBoard A20

Documents

- [CM-A10&A20-V2_SCH](#)
- [SOM-A10&A20_SCH](#)

for more information, you can visit marsboard.com

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Nand Flash 8G

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 Power Adapter EU Plug 5V/2A (+US \$5.00) (+150g)

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STM32F103TB ARM Cortex M3 Development Board



Single channel Solid State Relay Module



Battery Holder with Switch - 3 x AAA



7" inch 1024x600 IPS LCD Display with capacitive touch (Type C)

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