BananaPro/Pi:Hardware specification

From BananaPro/Pi

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Banana Pro

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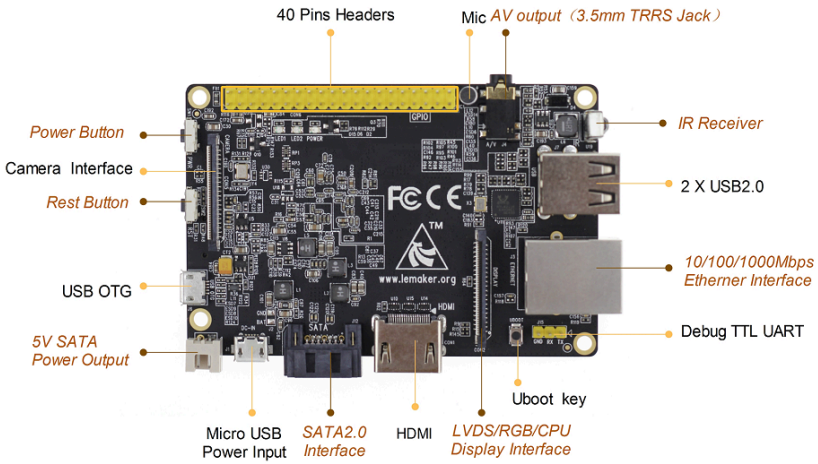

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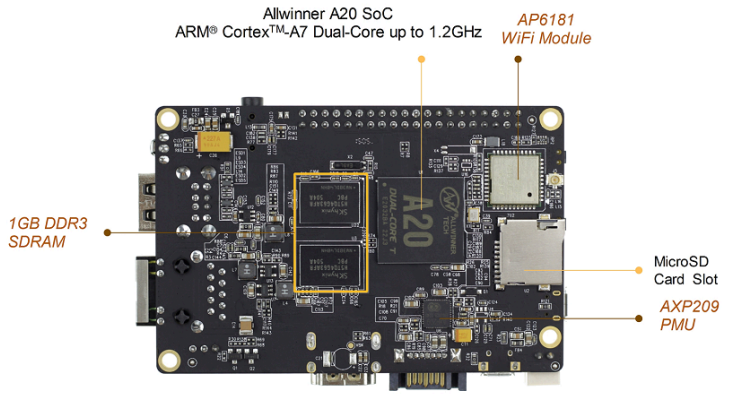

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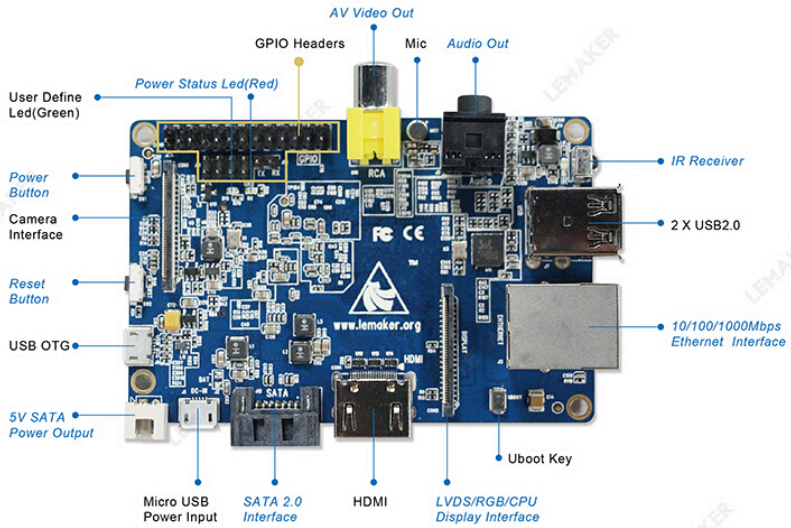
Banana Pro Hardware Specific Sheet	
Item	Description
CPU	Allwinner A20* (ARM Cortex-A7 dual-core 2 x 1.0GHz)
GPU	ARM Mali400MP2 - complies with OpenGL ES 2.0/1.1)
System Memory (SDRAM)	1GB DDR3 (shared with GPU)
Onboard Storage	MicroSD card slot max. 64GB; up to 4TB on a SATA disk
Onboard Network	10/100/1000 Ethernet RJ45, **on-board wifi module**
Video Output	HDMI, **3.5mm stereo Four-wire headphone jack** (Composite audio and video interface) output, extendable with the on-board LVDS connector
Audio I/O	HDMI, **3.5mm stereo Four-wire headphone jack** (Composite audio and video interface) output, on-board microphone input
USB	2 x USB 2.0 ports, 1 x OTG micro-USB port, 1 x micro-USB for power supply
Expansion	Extendable **40-pin GPIO** (General Purpose Input/Output) headers, camera connector, display connector for LVDS and a touch screen
Misc	3 x on-board buttons(Power Switch, Reset, U-boot key); IR receiver
Dimensions	92mm x 60 mm
Weight	45g

Banana Pi

Banana Pi layout



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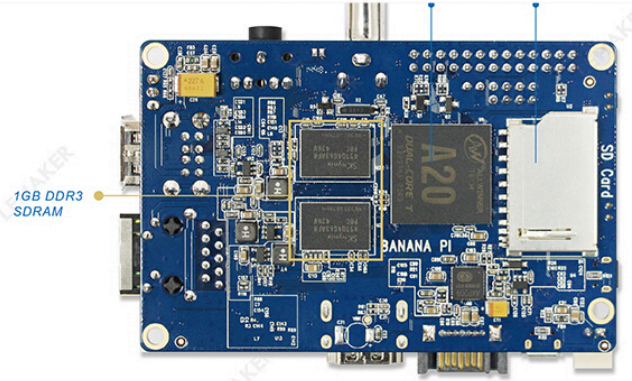

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Banana Pi hardware specifications

Banana Pi Hardware Specific Sheet	
Item	Description
CPU	Allwinner A20* (ARM Cortex-A7 dual-core 2 x 1.0GHz)
GPU	ARM Mali400MP2 - complies with OpenGL ES 2.0/1.1)
System Memory (SDRAM)	1GB DDR3 (shared with GPU)
Onboard Storage	SD/MMC card slot max. 64GB; up to 4TB on a SATA disk
Onboard Network	10/100/1000 Ethernet RJ45 **(optional USB WiFi Dongle)**
Video Output	HDMI, **Composite (AV video)**, extendable with the on-board LVDS connector
Audio I/O	HDMI, **3.5mm stereo Three-wire headphone jack** output, on-board microphone input
USB	2 x USB 2.0 ports, 1 x OTG micro-USB port, 1 x micro-USB for power supply
Expansion	Extendable **26-pin GPIO** (General Purpose Input/Output) headers, camera connector, display connector for LVDS and a touch screen
Misc	3 x on-board buttons(Power Switch, Reset, U-boot key); IR receiver
Dimensions	92mm x 60 mm
Weight	48g

Due to the limited power output from a computer's USB port, we suggest only powering the B-Pi with a good quality 5V/2A PSU. The Banana Pro is the same as the Banana Pi besides an on-board WiFi 802.11b/g/n adapter using the AP6181 chip. Thus it does not require a USB WiFi adapter and frees up a USB port. It also adds a 3.5mm jack for integrated composite video and audio.

References

- Allwinner (https://web.archive.org/web/20211017040727/http://www.allwinnertech.com/en/)
- Allwinner A20 User Manual (https://web.archive.org/web/20211017040727/http://dl.linux-sunxi.org/A20/A20%20User%20Manual%202013-03-22.pdf)

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