Banana Pi

Technical Specifications

What's Banana Pi ?

It's an open-source single-board computer. It can run Android 4.4, Ubuntu, Debian, Rasberry Pi Image, as well as the Cubieboard Image. It uses the AllWinner A20 SoC, and has 1GB DDR3 SDRAM

What can I do with Banana Pi?

Build…

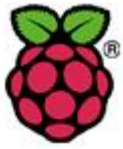
- A computer
- A wireless server
- Games
- Music and sounds
- HD video
- A speaker
- Android
- Scratch
- Pretty much anything else, because Banana Pi is open source

Who's it for?

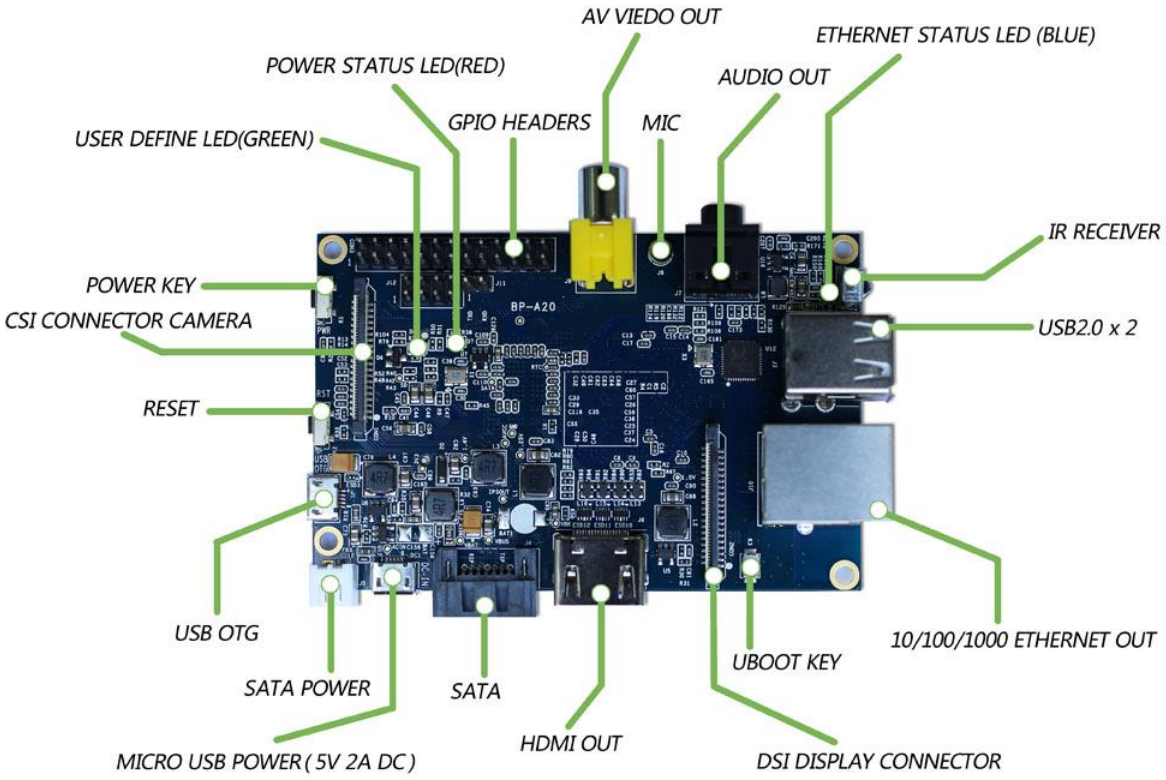
Banana Pi is for anyone who wants to start creating with technology – not just consuming it. It's a simple, fun, useful tool that you can use to start taking control of the world around you

Hardware specification

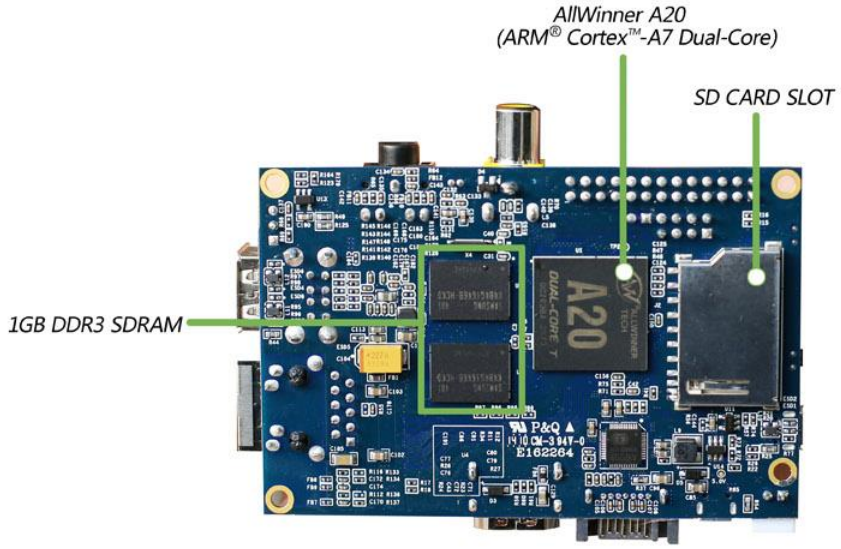
CPU	A20 ARM® Cortex™-A7 Dual-Core
GPU	ARM Mali400MP2 Complies with OpenGL ES 2.0/1.1
Memory (SDRAM)	1GB DDR3 (shared with GPU)
Onboard Storage	SD (Max. 64GB) / MMC card slot UP to 2T on SATA disk
Onboard Network	10/100/1000 Ethernet RJ45 (optional USB WIFI Dongle)
Camera Input	A CSI input connector allows for the connection of a designed camera module
Sound Input	Mic
Video Outputs	HDMI, CVBS , LVDS/RGB
Audio Output	3.5 mm Jack and HDMI
Power Source	5 volt via MicroUSB(DC In Only) and/or MicroUSB (OTG)
USB 2.0 Ports	2 (direct from Allwinner A20 chip)
Buttons	Reset button: Next to MicroUSB connector Power button: Next to Reset button UBoot button (optional): Behind HDMI connector
GPIO(2X13) pin	GPIO, UART, I2C bus, SPI bus with two chip selects, CAN bus, ADC, PWM, +3.3v, +5v, ground.
LED	Power Status LED (Red) Ethernet Status LED (Blue) User Define LED (Green)
Remote	IR

Supported OS	Android Android 4.4 Debian Ubuntu  Raspberry Pi
Supported Apps	Scratch
Interface definition	
Product size	92 mm × 60mm
Weight	48g

Interfaces



Front



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Quick Start

3.Connect Input

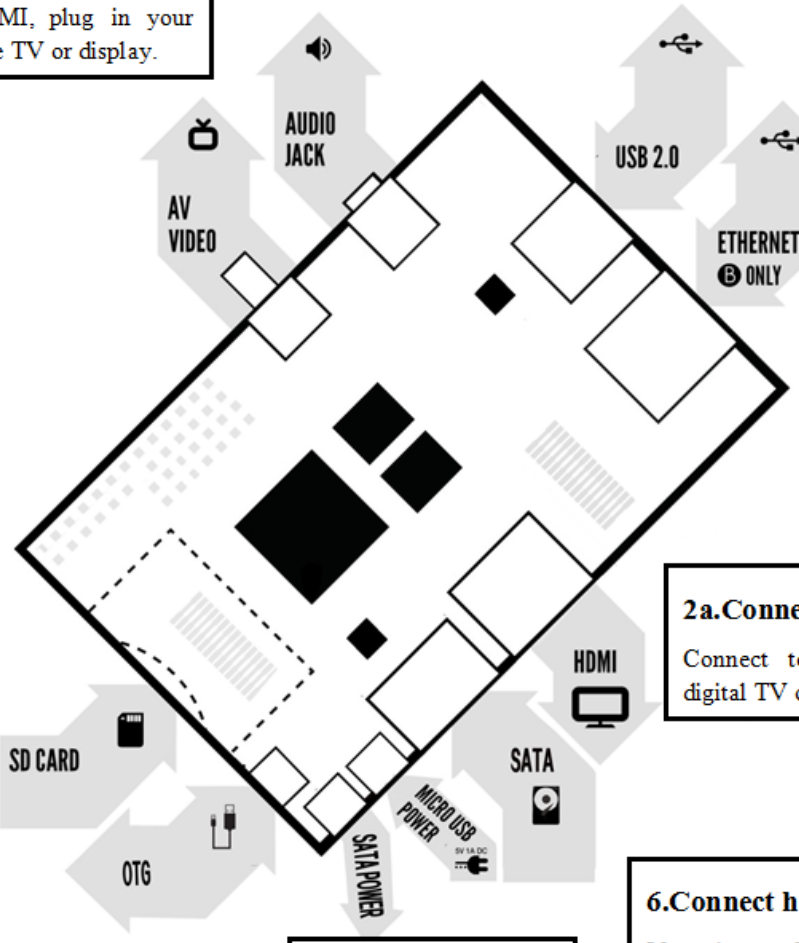
Plug in a USB keyboard and mouse

2b.Connect Display

No HDMI, plug in your analogue TV or display.

4.Connect Network

Plug in an Ethernet cable



2a.Connect Display

Connect to your HDMI digital TV or monitor

1.Insert a SD card

Step 2 has taught you how to write an image to SD card

6.Connect hard drive

If you have a free 3.5 inch hard drive, you can plug it in the SATA port.

5.Power up

Plug in the micro USB power supply