BANANA PI

What is a Banana Pi?

It's an open source single board computer. It can run Android 4.2, Ubuntu, Debian, Fedora and many other Linux distributions. It uses the Allwinner A20 SoC and has 1GB DDR3 SDRAM.
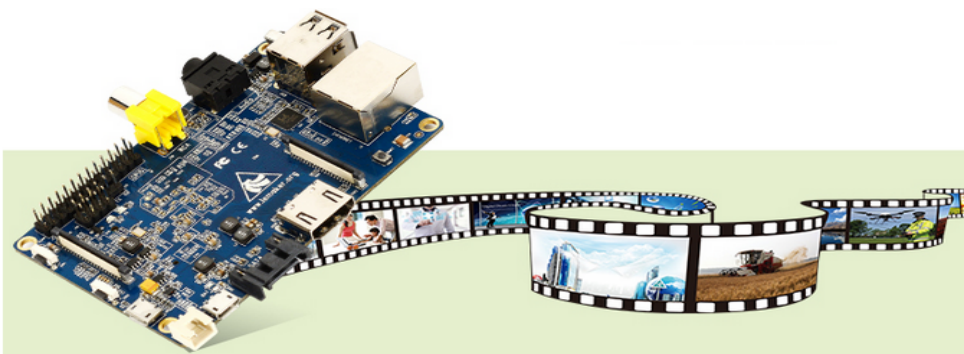
What can I do with Banana Pi?

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?

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

Specifications:

Hardware Specification of Banana Pi™	
SoC	Allwinner® A20(sun 7i)
CPU	ARM® Cortex™-A7 Dual-Core up to1GHz (ARM v7 instruction set)
GPU	Mali400MP2, supproting OpenGL ES 2.0/1.1(hardware acceleration support)
RAM	1GB DDR3 SDRAM (shared with GPU)
PMU	AXP209
Features	
Storage	SD card slot SATA 2.0(suggest 2.5 inch SSD or HDD)
Ethernet Port	10/100/1000Mbps ethernet (Realtek RTL8211E/D)
Wireless	Optional USB WIFI Dongle 1 x IR reciever
USB	2 x USB2.0 Host 1 x USB 2.0 OTG (all direct from A20 chip)
Display	Supports multi-channel HD display: 1 x HDMI 1.4 (Type A - full) 1 x LVDS/RGB/CPU display interface (DSI) for raw LCD panels 1 x RCA(PAL and NTSC) HDMI resolutions from 640×480 to 1920×1080 plus various PAL and NTSC standards
Audio	HDMI output 1 x Analog audio (via 3.5 mm TRRS jack) I2S audio (also potentially for audio input) 1 x On board micphone for audio input
Camera	1 x Parallel 8-bit camera interface
EXPANSION INTERFACE	26 Pins Header: GPIO,UART,I2C bus,SPI bus with two chip selects, CAN bus, PWM,+3.3v,+5v,ground.
LED	1 x Power Status LED (Red) 1 x Ethernet Status LED (Blue) 1 x User Define LED (Green)

Button	1 x Reset button 1 x Power button 1 x U-boot button
Power Source	5V @ 2A via MicroUSB
OS Support	Android 4.2, Android 4.4 , Debian , Ubuntu , Raspberry Pi.
Appearance characteristic	
Sizes	92mm × 60mm
Weight	48g

Hardware:
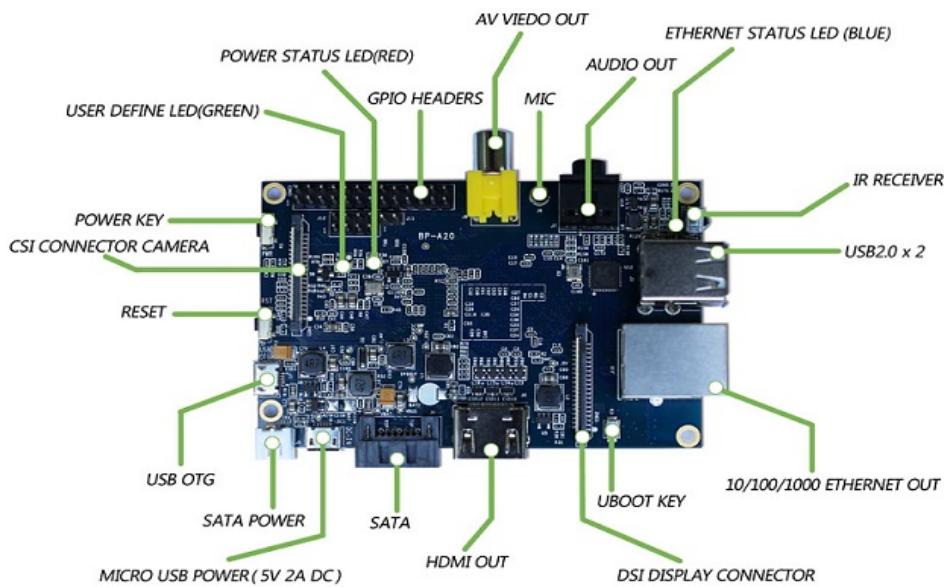
Front side
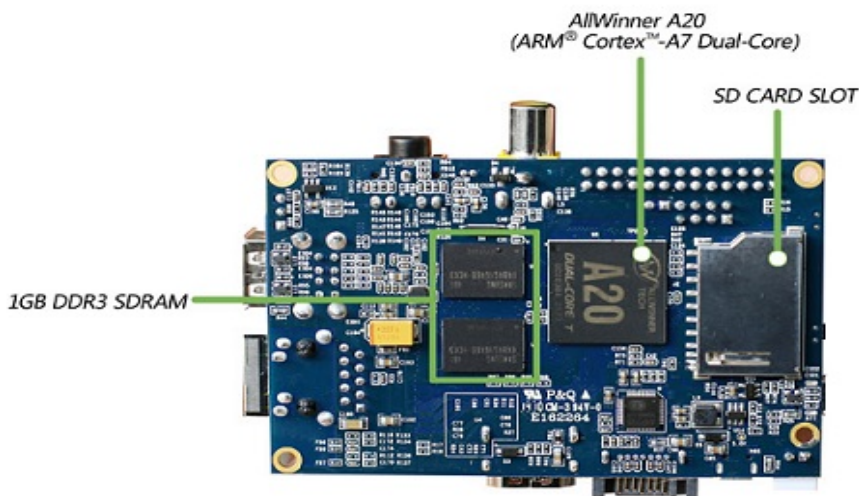
Back side

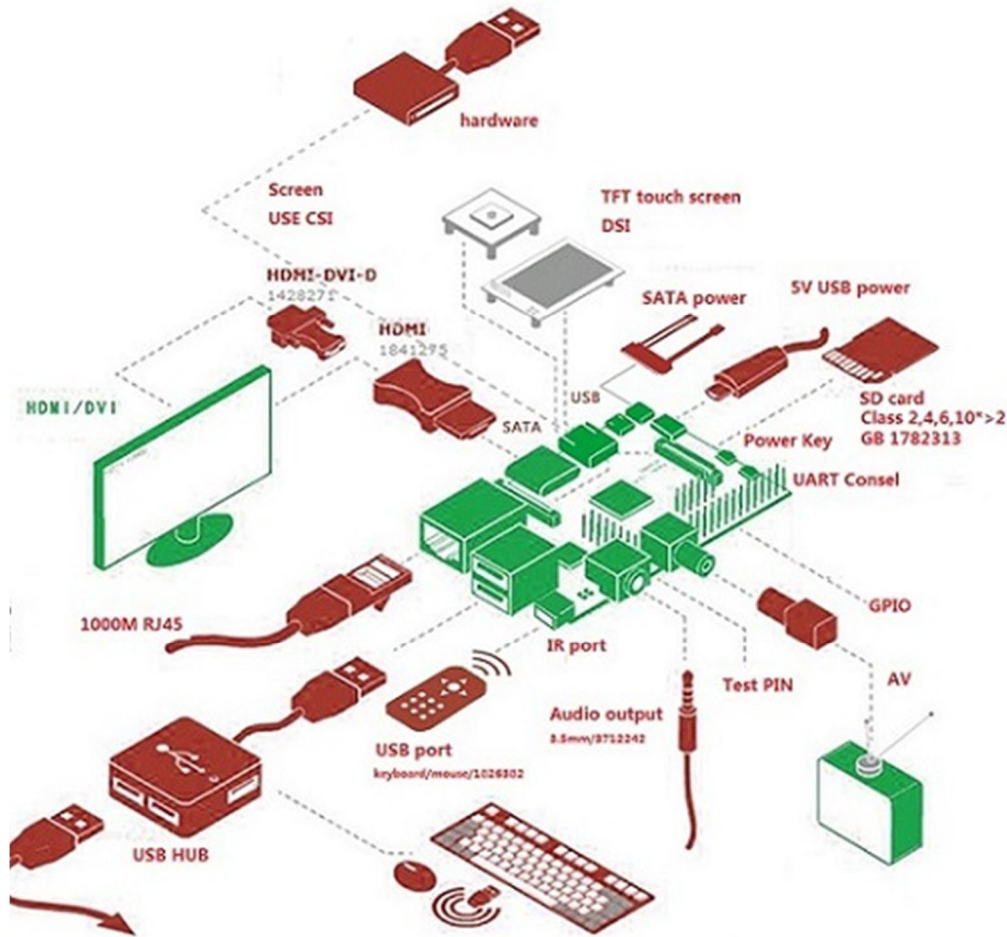## Connect Sketch Map:

GPIO Define
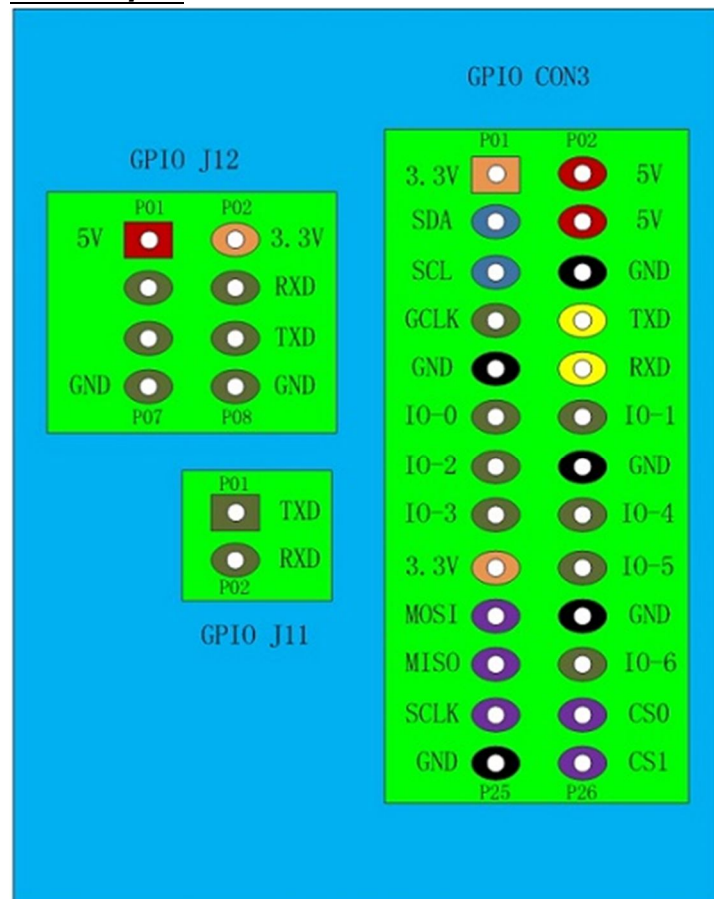
Made in China

EKT
Electronics Katrangi Trading