What is a Banana Pro？
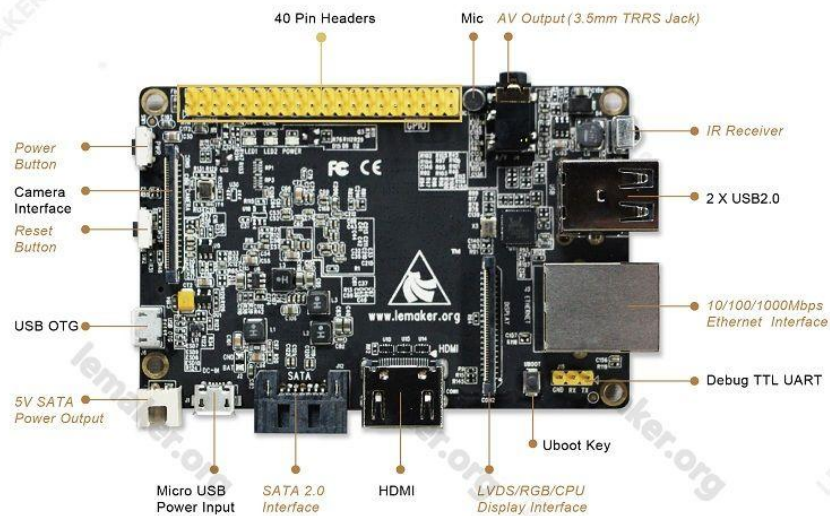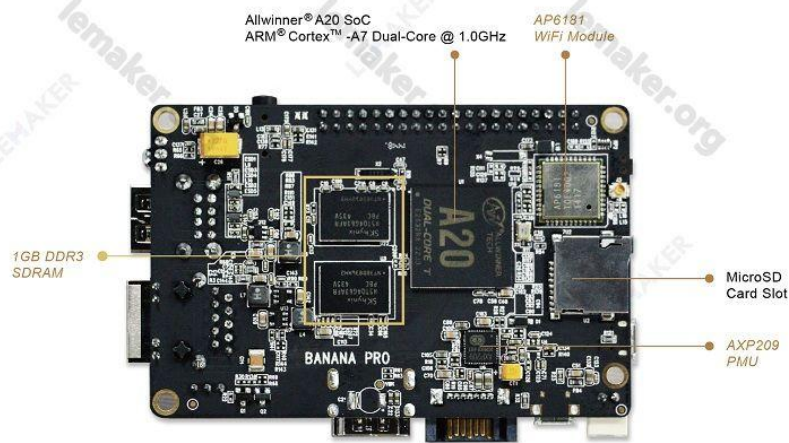
Banana ProTM is an update version of Banana PiTM, designed by LeMaker Team and it has more enhanced features. Banana ProTM has an excellent compatibility with multiply software supports. Basically all mainstream Linux-based operating system can run on Banana ProTM, with the version of Lubuntu, Android, Debian, Bananian, Berryboot, OpenSuse, Scratch, Fedora, Gentoo, Open MediaVault, OpenWRT.Banana ProTM also supports BSD system .

Banana ProTM applies to a wide range of fields. Including: low-cost computer for education purpose, multimedia applications, scratch, arduino, game emulator, home server, robot and so on.

Front side

Back side

Hardware Specification of Banana ProTM	
oc	Allwinner® A20(sun 7i)
CPU	ARM® Cortex™-A7 Dual-Core1GHz (ARM v7 instruction set)
GPU	Mali400MP2 Complies with OpenGL ES 2.0/1.1 (hardware acceleration support)
SDRAM	1GB DDR3 (shared with GPU)
Power	5V @ 2A via MicroUSB (DC in Only) and/or MicroUSB (OTG)
PMU	AXP209
Features	
Low-level perpherials	40 Pins Header, 28×GPIO, some of which can be used for specific functions including UART, I2C, SPI, PWM, CAN, I2S, SPDIF, LRADC, ADC, LINE-IN,FM-IN,HP-IN.
On board Network	10/100/1000Mbps ethernet (Realtek RTL8211E/D)
Wifi Module	WiFi 802.11 b/g/n
Bluetooth	Optional
On board Storage	MicroSD (TF) card，SATA 2.0
Display	Supports multi-channel HD display: HDMI 1.4 (Type A - full) LVDS/RGB/CPU display interface (DSI) for raw LCD panels Composite video (PAL and NTSC) (via 3.5 mm TRRS jack shared with audio out) 11 HDMI resolutions from 640×480 to 1920×1080 plus various PAL and NTSC standards
Video	HD H.264 2160p video decoding Mutil-format FHD video decoding, including Mpeg1/2, Mpeg4, H.263, H.264, etc H.264 high profile 1080p@30fps or 720p@60fps encoding
Audio outputs	HDMI,analog audio (via 3.5 mm TRRS jack shared with composite video out),I2S audio (also potentially for audio input)
Camera	Parallel 8-bit camera interface
Audio input	On board micphone
USB	2 USB 2.0 host, 1 USB 2.0 OTG (all direct from A20 chip)
Buttons	Reset button Power button U-boot button
Leds	Power status led (red) Ethernet status led (blue) User defined led (green)
Other	IR receiver
Interface definition	
Sizes	92 mm × 60mm
Weight	45g
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