



# Banana Pi

## BANANA PI-M1 PLACA MINIORDENADOR COMPATIBLE CON RASPBERRY

<b>CPU</b>	A20 ARM Cortex -A7 Dual-Core
<b>GPU</b>	ARM Mali 400 MP2; Complies with OpenGL ES 2.0/1.1
<b>Memory</b>	1GB DDR3
<b>Network</b>	10/100/1000 Ethernet <a href="#">8P8C</a> ( <a href="#">1000BASE-T</a> )
<b>Video Input</b>	A CSI input connector allows for the connection of a designed camera module
<b>Video Outputs</b>	HDMI, CVBS, LVDS/RGB
<b>Audio Outputs</b>	3.5mm jack and HDMI
<b>Power Source</b>	5 volts DC via Micro USB or GPIO
<b>USB 2.0 ports</b>	2 (direct from Allwinner A20 chip)
<b>GPIO</b>	GPIO, UART, I2C BUS, SPI BUS, WITH TWO CHIP SELECTS, <a href="#">CAN bus</a> , ADC, PWM, +3.3V, +5V, GND
<b>LED</b>	Power Key & 8P8C
<b>Storage</b>	SATA 2.0,
<b>os</b>	Android, Debian Linux, Ubuntu Linux, OpenSuse linux

Ref.: 108.BPI/M1



## BANANA PI-M1+ PLACA MINIORDENADOR COMPATIBLE CON RASPBERRY

<b>CPU</b>	A20 ARM Cortex -A7 Dual-Core
<b>GPU</b>	ARM Mali400MP2Complies with OpenGL ES 2.0/1.1
<b>Memory</b>	1GB DDR3
<b>Network</b>	10/100/1000 Ethernet 8P8C, Wi-Fi
<b>Video Input</b>	A CSI input connector allows for the connection of a designed camera module
<b>Video Out</b>	HDMI, CVBS, LVDS/RGB
<b>Audio Out</b>	3.5mm jack and HDMI
<b>Power</b>	5 volt via Micro USB (DC in only) and / or Micro USB OTG
<b>USB 2.0 ports</b>	2(direct from Allwinner A20 chip)
<b>GPIO</b>	GPIO, UART, I2C BUS, SPI BUS, WITH TWO CHIP SELECTS, <a href="#">CAN bus</a> , ADC, PWM, +3.3V, +5V, GND
<b>LED</b>	Power Key & 8P8C
<b>Storage</b>	SATA 2.0
<b>OS</b>	Android 4.4, Android 4.2, Raspbian, Lubuntu, Open Suse, Debian

Ref.: 108.BPI/M1PLUS





# Banana Pi

## BANANA PI-M2+ PLACA MINIORDENADOR COMPATIBLE CON RASPBERRY

Ref.: 108.BPI/M2PLUS

<b>CPU</b>	H3 Quad-core Cortex-A7 H.265/HEVC 4K
<b>GPU</b>	Mali400MP2 GPU @600 MHz, Supports OpenGL ES 2.0
<b>Memory</b>	1GB DDR3 (shared with GPU)
<b>Onboard Network</b>	10/100/1000 Ethernet
<b>Onboard WIFI</b>	SDIO AP6212 (option AP6181 AP6335)
<b>Video Input</b>	A CSI input connector Camera:1 Supports 8-bit YUV422 CMOS sensor interface,2 Supports CCIR656 protocol for NTSC and PAL,3 Supports SM pixel camera sensor ,4 Supports video capture solution up to 1080p@30fps
<b>Video Outputs</b>	Supports HDMI output with HDCP, Supports HDMI CEC, Supports HDMI 30 function, Integrated CVBS, Supports simultaneous output of HDMI and CVBS
<b>Audio Outputs</b>	HDMI
<b>Power Source</b>	DC input can supply power, but USB OTG input don't supply power
<b>USB 2.0 ports</b>	two USB 2.0 HOST, one USB 2.0 OTG
<b>GPIO</b>	40 Pins Header, compatible with Raspberry Pi B+
<b>LED</b>	Power led & Status led
<b>IR</b>	IR input on board



## BANANA PI-M3 PLACA MINIORDENADOR COMPATIBLE CON RASPBERRY

Ref.: 108.BPI/M3

<b>CPU</b>	Allwinner A83T ARM Cortex-A7 Octa-Core 1.8 GHz, 512KB L1 cache and
<b>GPU</b>	PowerVR SGX544MP1 Comply with OpenGL ES 2.0 OpenCL 1x, DX9_3
<b>Memory</b>	2GB LPDDR3 (shared with GPU)
<b>Storage</b>	On Board 8GB eMMC Flash, Micro SD-Card slot, SATA 2.0 Port (USB-to-
<b>Network</b>	10/100/1000 Mbit/s Ethernet (Realtek RTL8211E/D) + Wi-Fi 802.11 b/g/n
<b>Video Input</b>	A CSI input connector allows for the connection of a designed camera mo-
<b>Video Out</b>	HDMI 1.4 (Type A Full), MIPI Display Serial Interface (DSI) for raw LCD
<b>Audio Input</b>	On board microphone
<b>Audio Out</b>	3.5mm jack and HDMI
<b>USB ports</b>	USB 2.0 PORT (x2), USB OTG (x1)
<b>Remote</b>	IR Receiver (x1)
<b>GPIO</b>	40 Pin Header : GPIO (x28) and Power (+5V, +3.3V and GND). Some of I/O Pin can be used for specific functions as UART, I2C, SPI or PWM
<b>Switches</b>	Reset, Power and U-boot
<b>LED</b>	Power Status and 8P8C
<b>Power</b>	5 volt @2A via DC Power and/or Micro USB (OTG)
<b>Size &amp;</b>	92x60mm, 48g
<b>OS</b>	Android, Linux, etc...





# Banana Pi

## BANANA PI-M64 PLACA MINIORDENADOR COMPATIBLE CON RASPBERRY

Ref.: 108.BPI/M64

<b>CPU</b>	Allwinner 64 Bit Quad Core ARM Cortex A53 1.2 GHz CPU
<b>GPU</b>	Dual core Mali 400 MP2 GPU
<b>Memory</b>	2GB LPDDR3 (shared with GPU)
<b>Storage</b>	MicroSD slot supports up to 256GB expansion & 8G eMMC flash (option 16/32/64G)
<b>Network</b>	10/100/1000 Mbit/s Ethernet + Wi-Fi 802.11 b/g/n + Bluetooth BT4.0
<b>Video Input</b>	A CSI input connector allows for the connection of a designed camera module
<b>Video Out</b>	high-definition video playback & 2K HDMI port and multi-channel audio output (NO H. / X.265 capabilities!!!)
<b>Audio In</b>	On board microphone
<b>Audio Out</b>	3.5mm jack and HDMI
<b>USB ports</b>	USB 2.0 PORT (x2), USB OTG (x1)
<b>Remote</b>	IR Receiver (x1)
<b>GPIO</b>	40 Pin Header : GPIO (x28) and Power (+5V, +3.3V and GND). Some of I/O Pin can be used for specific functions as UART, I2C, SPI or PWM
<b>Switches</b>	Reset, Power and U-boot
<b>LED</b>	Power Status and 8P8C
<b>Power</b>	5 volt @2A via DC Power and/or Micro USB (OTG)
<b>Size &amp; Weight</b>	92x60mm, 48g
<b>OS</b>	Android, Linux, etc...



## BANANA PI-D1 PLACA CAMARA HD IP CÓDIGO ABIERTO

Ref.: 108.BPI/D1

La **BPI-D1** es una cámara IP de desarrollo con código abierto y de pequeño tamaño, con una cámara mini HD incorporada. En 36mm (w) x36mm (l) y un peso de 10g, es mucho más pequeño y más ligero que cualquier mini-cámara o placa de cámara. Le permite crear y personalizar su propia mini-cámara y puede ser una parte valiosa de cualquier hardware actual en el que esté trabajando. La D1 se enorgullece de ofrecer calidad de imagen de alta resolución: Tanto el vídeo como las fotos se capturan a 1280x720p con una tasa de captura de vídeo de 30 fps. La BPI-D1 está diseñado específicamente para ofrecerle todas las herramientas multimedia que necesita en un pequeño paquete. Simplemente conectela a una fuente de batería externa (con su capacidad de energía deseada), y la D1 hace el resto. tiene una HD mini-cámara, sensor de audio, micrófono, CPU, GPIO, WiFi y mucho más.



<b>CPU</b>	ARM986EJ 32Bits RISC Core 400 <a href="#">MHz</a>
<b>Storage</b>	MicroSD card
<b>Memory</b>	64MB DDR2
<b>Dimensiones</b>	38 mm × 38 mm
<b>Peso</b>	10Gr