

Item no.: BPI-R2-PRO

## BPI-R2 PRO - Next generation smart router development board

from **74,77 EUR**

Item no.: BPI-R2-PRO  
shipping weight: 0.30 kg  
Manufacturer: BPI



### Product Description

BPI-R2-PRO - Next generation smart router development board

Banana Pi BPI-R2 Pro is the next generation smart router development board from Banana Pi. It is powered by Rockchip RK 3568 processor. It features 2 GB LPDDR4 memory and 16 GB eMMC storage and supports 2x USB 3.0 interfaces as well as 5x Gigabit network ports. It has an M.2 key-E and mini PCIe interface, 2x mipi DSI interfaces (one can change to LVDS by software), 1x CSI camera interface, 1x HDMI output.

BPI-R2 Pro is the same size as Banana Pi BPI-R2, and its interfaces are also the same, so you can use BPI-R2 cases.

- CPU: Rockchip RK3568 Quad-core ARM Cortex-A55 CPU 2 GHz
- GPU: Mali-G52 1-Core-2EE OpenGL ES3.2 Vu1kn 1.1 OpenCL 2.0
- Memory: 2 GB LPDDR4 SDRAM
- Storage: Onboard 16 GB eMMC Flash, Micro SD card slot, SATA 3.0 port, SPI Flash
- Network: 5x 10/100/1000 Mbit/s Ethernet
- Display(s): 1x HDMI port, 2x DSI interface (1x DSI can change to LVDS by software)
- Camera: 1x CSI camera interface
- Video decoder(s): H.265 HEVC/MVC Main10 Profile yuv420 @ L5.1 up to 4096 x 2304 @ 60 fps; H.264 AVC/MVC Main10 Profile yuv400/yuv420/yuv422 @ L5.1 up to 4096 x 2304 @ 60 fps
- Video encoder(s): H.264/AVC BP/MP/HP @ level 4.2?up to 1920 x 1080 @ 100 fps; H.265/HEVC MP @ level 4.1, up to 1920 x 1080 @ 100 fps (4096 x 4096 @ 10 fps with TILE)
- Audio output(s): HDMI & I2S & speaker & headphone
- USB port: 2x USB 3.0 port, 1x micro USB OTG
- mini PCIE: 1x mini PCIe interface & 1x M.2 key-e interface
- Remote: 1x IR receiver
- GPIO: 40-pin header: 28x GPIO and power (+5 V, +3.3 V and GND); Some of I/O pin can be used for specific functions as UART, I2C, SPI or PWM
- Switches: Reset button, power button, U-boot button
- LED: Power status and 8P8C
- Power source: 12 V @ 2 A via DC power and/or Micro USB (OTG)
- Size & weight: 148 x 100.5 mm; 100 g
- OS: OpenWRT, Linux and others OS

### Specifications

Scan this QR code to  
view the product  
All details, up-to-date  
prices and availability

