

# Resources

## Source code

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Official BPI-R3 kernel v5.15 + firmware repo:

<https://github.com/BPI-SINOVOIP/BPI-R3-bsp-5.15>

Official OpenWrt 21.02 for BPI-R3 repo:

<https://github.com/BPI-SINOVOIP/BPI-R3-OPENWRT-V21.02.3>

Instructions: <https://forum.banana-pi.org/t/banana-pi-bpi-r3-openwrt-image/13236/4>

Notes:

Baidu link: [https://pan.baidu.com/s/1JSQ7wJTCeK4JqWR\\_XB-LLQ?pwd=6vdb](https://pan.baidu.com/s/1JSQ7wJTCeK4JqWR_XB-LLQ?pwd=6vdb)  
(Pincode: 6vdb)

Google

link: [https://drive.google.com/file/d/13nQMfM0\\_XTyWcILhNxiv\\_9E4TIvb65RI0/view?usp=sharing](https://drive.google.com/file/d/13nQMfM0_XTyWcILhNxiv_9E4TIvb65RI0/view?usp=sharing)

- Frank's U-Boot repo:

<https://github.com/frank-w/u-boot/tree/2023-04-bpi>

- Frank's BPI-R3 kernel v6.1 repo

<https://github.com/frank-w/BPI-Router-Linux/tree/6.1-main>

## Documents

BPI-R3 DXF

file : <https://drive.google.com/file/d/1bc5mCtJlnPi84q7VZYaQkZhRUU4HUfUd/view?usp=sharing>

BPI-R3 schematic

diagram : [https://drive.google.com/file/d/1mxKb8CBbnzfNSd\\_4esmcX\\_NovxaXjEb8/view?usp=sharing](https://drive.google.com/file/d/1mxKb8CBbnzfNSd_4esmcX_NovxaXjEb8/view?usp=sharing)

MT7986A\_Datasheet\_1.15 : [https://drive.google.com/file/d/1t\\_nuPTeoAcFb1dmEe4kJVLLWdHcAA6OB/view?usp=sharing](https://drive.google.com/file/d/1t_nuPTeoAcFb1dmEe4kJVLLWdHcAA6OB/view?usp=sharing)

MT7986A\_Reference\_Manual\_for\_BPI-

R3 : <https://drive.google.com/file/d/1biSJmxnlpNzQroYDg9mtPtSTAv4i0DFf/view?usp=sharing>

[Tutorial] Build, customize and use MediaTek open-source U-Boot and

ATF : <https://forum.banana-pi.org/t/tutorial-build-customize-and-use-mediatek-open-source-u-boot-and-atf/13785>

BPI-R3 OpenSource Routerboard how to burn and test

image [https://www.youtube.com/watch?v=Xaf\\_SC7fPDM](https://www.youtube.com/watch?v=Xaf_SC7fPDM)

BPI-R3 CE,FCC,RoHS certificate : <https://banana-pi.org/en/bpi-honor/>

Banana Pi BPI-R3 Review: Details, Pricing, & Features : <https://androidpimp.com/embedded/banana-pi-bpi-r3-router-board/?fbclid=IwAR1G4cEco5iULwKG-C-n8MliWOWZMhPborqmCzS2d3KIHx-eNQS-54lZnps>

Update OpenWrt to 22.03.3 SNAPSHOT:<https://forum.banana-pi.org/t/bananapi-bpi-r3-update-openwrt-to-22-03-3-snapshot/14984>

3D printed cases:<https://forum.banana-pi.org/t/banana-bpi-r3-3d-printed-case/14246/43>

Cooling solutions topic: <https://forum.banana-pi.org/t/bpi-r3-running-hot/14750>

Bananapi R3 review with WiFi / CPU benchmarks and power consumption numbers: <https://wiki.junicast.de/en/junicast/review/bananapi-BPI-R3>

## Release image

### OpenWRT

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Latest official OpenWRT snapshot image:

[https://firmware-selector.openwrt.org/?version=SNAPSHOT&target=mediatek%2Ffilogic&id=bananapi\\_bpi-r3](https://firmware-selector.openwrt.org/?version=SNAPSHOT&target=mediatek%2Ffilogic&id=bananapi_bpi-r3)

2022-07-20 udptae BPI-R3 OpenWRT 21.02 linux kernel 5.4, wifi 6 2.4G and 5G mac80211 opensource wifi driver working fine support nand flash ,SD card ,eMMC flash boot. for BPI-R3 production version hardware

Google

Drive:[https://drive.google.com/file/d/13nQMfM0\\_XTyWcILhNxv\\_9E4Tlvb65RI0/view?usp=share\\_link](https://drive.google.com/file/d/13nQMfM0_XTyWcILhNxv_9E4Tlvb65RI0/view?usp=share_link)

Baidu Cloud: <https://pan.baidu.com/s/1-5tqHEacMw1wITSEK1ey9A?pwd=8888> (pincode: 8888)

2022-06-01udptae BPI-R3 OpenWRT 21.02 linux kernel 5.4, wifi 6 2.4G and 5G working fine support nand flash ,SD card ,eMMC flash boot. for BPI-R3 production version hardware

Google drive :[https://drive.google.com/file/d/18\\_xst-diDdCg7CeSum1M5FDbbo31jFJq/view?usp=drivesdk](https://drive.google.com/file/d/18_xst-diDdCg7CeSum1M5FDbbo31jFJq/view?usp=drivesdk)

Baidu link: <https://pan.baidu.com/s/1idqU1-bB4XD1LTGDAJxRGA?pwd=chez> Pincode: chez

Discuss on forum : <https://forum.banana-pi.org/t/banana-pi-bpi-r3-openwrt-image/13236>

2022-09-28 udptae BPI-R3 OpenWRT 21.02 linux kernel 5.4, wifi 6 2.4G and 5G working fine support nand flash ,SD card ,eMMC flash boot, support EC25 LTE 4G

Modules for BPI-R3 production version hardware

Google drive: <https://drive.google.com/file/d/1oNcnll8bDla9pPWUd-TFPXXphsCMsJt0/view?usp=sharing>

Baidu link: [https://pan.baidu.com/s/1v4sKfAuax3AfHNtp\\_2RP\\_g?pwd=mebq](https://pan.baidu.com/s/1v4sKfAuax3AfHNtp_2RP_g?pwd=mebq) (Pincode: mebq)

## Debian

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- [BPI-R3] Debian Bullseye Image, this image is share by Frank:

<https://forum.banana-pi.org/t/bpi-r3-debian-bullseye-image/14541>

- 2022-12-18-debian-11-bullseye-lite-bpi-r3-5.15-sd-emmc.img, Kernel 5.15.77

Baidu Cloud: <https://pan.baidu.com/s/195HeMXjK-rmCEZTnYBCndA?pwd=8888> (pincode: 8888)

Google

Drive: [https://drive.google.com/file/d/1NRR1hKsv6vE1bHOyRjcCGiHgmgaRxt72/view?usp=share\\_link](https://drive.google.com/file/d/1NRR1hKsv6vE1bHOyRjcCGiHgmgaRxt72/view?usp=share_link)

- 2022-12-18-debian-10-buster-lite-bpi-r3-5.15-sd-emmc.img, Kernel 5.15.77

Baidu Cloud: [https://pan.baidu.com/s/1\\_OGb8ZMF4pWlbaKJ0z2JsA?pwd=8888](https://pan.baidu.com/s/1_OGb8ZMF4pWlbaKJ0z2JsA?pwd=8888) (pincode: 8888)

Google Drive: [https://drive.google.com/file/d/1Q9ZSCZ8\\_ZI6o5SG4\\_iOn-mQUaci6Qfvt/view?usp=share\\_link](https://drive.google.com/file/d/1Q9ZSCZ8_ZI6o5SG4_iOn-mQUaci6Qfvt/view?usp=share_link)

## Ubuntu

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- 2022-12-18-ubuntu-22.04-server-bpi-r3-aarch64-sd-emmc.img

Baidu Cloud: <https://pan.baidu.com/s/1PajBEeFkgzgBdmJa5KpHpA?pwd=8888> (pincode: 8888)

Google

Drive: [https://drive.google.com/file/d/1m9TFmnlCj45b61evvmz9ja0g7kH641SG/view?usp=share\\_link](https://drive.google.com/file/d/1m9TFmnlCj45b61evvmz9ja0g7kH641SG/view?usp=share_link)

## Frank's image

Frank's Debian Bullseye image :

<https://forum.banana-pi.org/t/bpi-r3-debian-bullseye-image/14541>

Frank's Ubuntu 22.04 image:

<https://forum.banana-pi.org/t/bpi-r3-ubuntu-22-04-image/14956>