Getting Ethernet working with Banana Pi M2 Zero

BPI-M2+/BPI-M2 Zero/BPI-P2 Zero
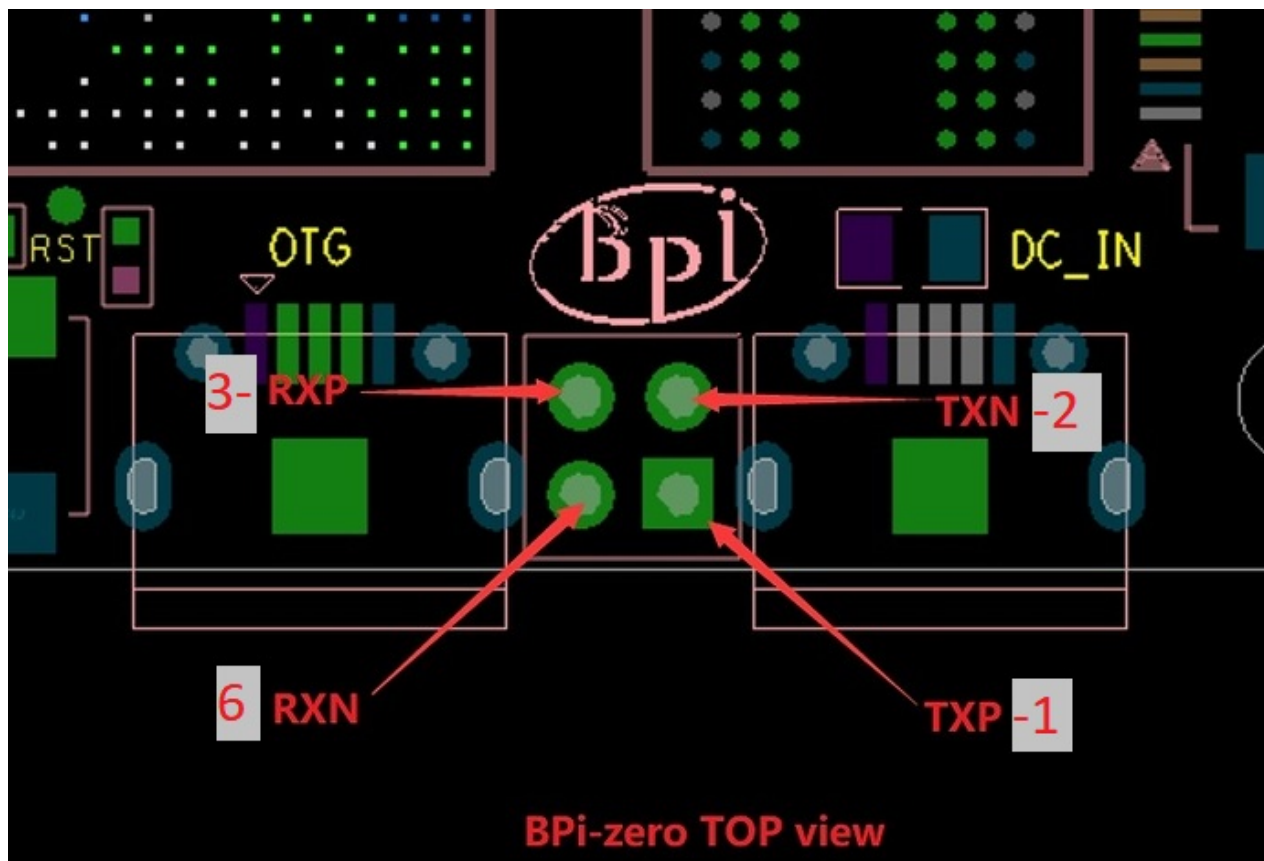
berbec (berbec) #1 June 29, 2018, 5:54am

I was very excited by **this post.**. The instructions were lacking, so here is how I got things working.

I used an image with the legacy kernel. I haven't gotten it to work with mainline yet. That's up next. I had a computer crash recently, so I'm not which exact image, but I think it's **this one.**

After I booted up, eth0 showed up.

I wired the four pins between the OTG and DC_IN microUSB jacks to a keystone jack. The following is the wire to keystone connector chart:
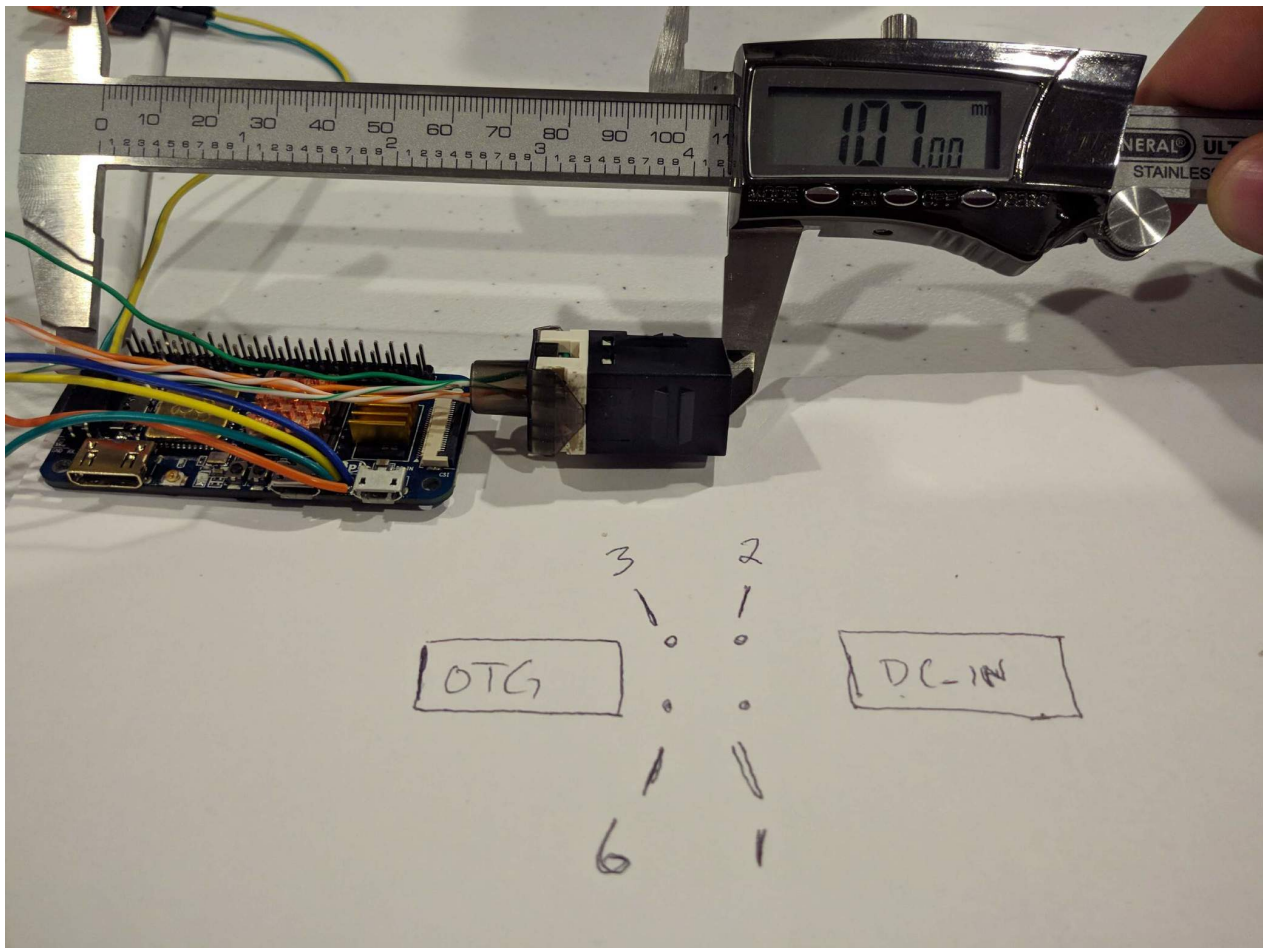

Works great!

I hope this helps everyone out.

[BPI-M2-Zero] Default supports 10/100 Ethernet

berbec (berbec) #2 June 29, 2018, 6:05am

1 Like

avaf #3 June 30, 2018, 8:08pm

You can try out this: **https://github.com/avafinger/bananapi-zero-ubuntu-base-minimal**

It has eth0 enabled, maybe it works.

avaf #4 July 8, 2018, 1:21am

Updated to mainline kernel 4.17.4 and tested eth0 wired this way, it works! eth0, wlan0 and i2c working.

```
eth0      Link encap:Ethernet  HWaddr 02:42:62:ff:37:0b
          inet addr:192.168.254.100  Bcast:192.168.255.255  Mask:255
          inet6 addr: fe80::42:62ff:feff:370b/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:2093 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1858 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:159415 (159.4 KB)  TX bytes:362419 (362.4 KB)
          Interrupt:40
```

```
lo          Link encap:Local Loopback
            inet addr:127.0.0.1  Mask:255.0.0.0
            inet6 addr: ::1/128 Scope:Host
            UP LOOPBACK RUNNING  MTU:65536  Metric:1
            RX packets:160 errors:0 dropped:0 overruns:0 frame:0
            TX packets:160 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:11840 (11.8 KB)  TX bytes:11840 (11.8 KB)

wlan0       Link encap:Ethernet  HWaddr cc:b8:a8:a9:e5:66
            inet addr:192.168.254.102  Bcast:192.168.255.255  Mask:255
            BROADCAST MULTICAST  MTU:1500  Metric:1
            RX packets:13 errors:0 dropped:0 overruns:0 frame:0
```

BananaPi BPI-M2Z(H2+) New Image Raspbian & Ubuntu Release 2018-07-09

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berbec (berbec) #5 July 8, 2018, 2:09am

It works great. I have eth0 & i2c working as well as wlan0. I have an spi device coming, so I'll be able to test that too.

The power management is amazing on this build. This is the first time I haven't been able to fry an egg on my m2z!