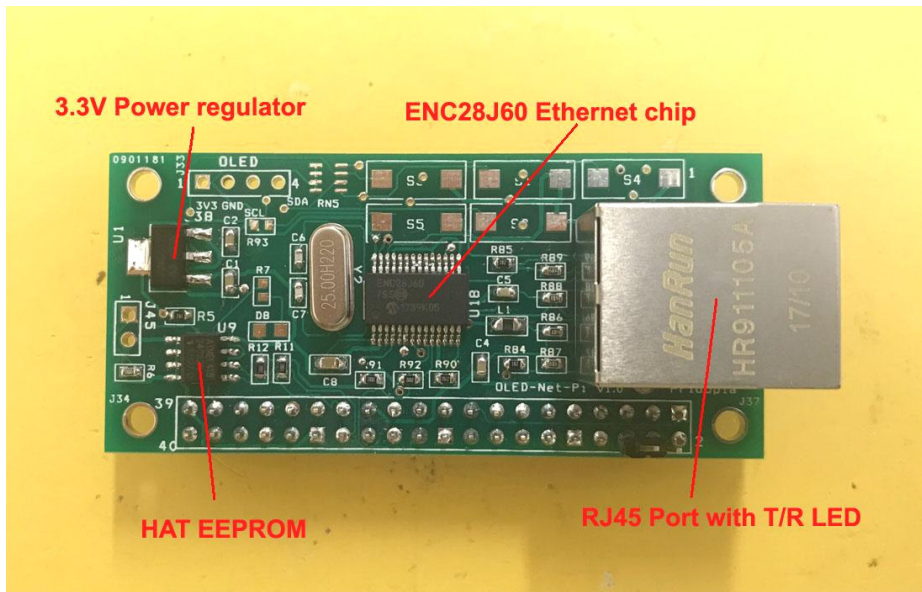


Raspberry Pi - RJ45 Ethernet User Manual



Pi Zero Net RJ45 xl spec

1. on Board ENC28J60 chip
2. SPI communication interface
3. Provide 3.3V power regulator for Ethernet chip use, not use 3.3V from Pi.
4. Ethernet connector provide TX, RX indicate Yellow/Green LED.
5. Provide HAT EEPROM easy for Plug & play use.

```
192.168.1.18 - PuTTY
Last login: Fri Aug 10 12:27:56 2018 from 192.168.1.6
root@raspberrypi:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.18 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fd24:995:a570:3100:7e1b:b653:46ef:3df6 prefixlen 64 scopeid 0x0<
global>
    inet6 fe80::d213:d3ec:6c7b:58b0 prefixlen 64 scopeid 0x20<link>
    ether c2:49:77:fe:ba:e7 txqueuelen 1000 (Ethernet)
    RX packets 81 bytes 8423 (8.2 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 100 bytes 15162 (14.8 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 163

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@raspberrypi:~#
```

Pi Zero IP

```
192.168.1.21 - PuTTY
root@raspberrypi:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.21 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::75a1:4428:6542:c728 prefixlen 64 scopeid 0x20<link>
    inet6 fd24:995:a570:3100:67e1:c4d6:da79:43e3 prefixlen 64 scopeid 0x0<global>
    ether 4e:d3:f2:df:ce:b8 txqueuelen 1000 (Ethernet)
    RX packets 165 bytes 16240 (15.8 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 156 bytes 23292 (22.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 163

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.22 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fd24:995:a570:3100:ec1f:8f20:2ac5:ab45 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::f1fd:e75c:25e0:7d27 prefixlen 64 scopeid 0x20<link>
    ether b8:27:eb:c1:71:34 txqueuelen 1000 (Ethernet)
    RX packets 50 bytes 4432 (4.3 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 56 bytes 8959 (8.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@raspberrypi:~#
```

Pi ZeroW IP

```

192.168.1.14 - PuTTY
root@raspberrypi:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.16 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fd24:995:a570:3100:6410:59da:2800:f638 prefixlen 64 scopeid 0x0<
global>
    inet6 fe80::35e7:fe5b:e932:946f prefixlen 64 scopeid 0x20<link>
    ether b8:27:eb:f9:55:41 txqueuelen 1000 (Ethernet)
    RX packets 38 bytes 2966 (2.8 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 91 bytes 13836 (13.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.14 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::b9fd:2d68:cc5d:2377 prefixlen 64 scopeid 0x20<link>
    inet6 fd24:995:a570:3100:b47e:68b:30f9:49ec prefixlen 64 scopeid 0x0<g
lobal>
    ether 32:f7:49:3a:74:4b txqueuelen 1000 (Ethernet)
    RX packets 3726 bytes 254414 (248.4 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 417 bytes 25018 (24.4 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 169

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.10 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fd24:995:a570:3100:9c49:f1d3:f0e3:b38e prefixlen 64 scopeid 0x0<
global>
    inet6 fe80::ada8:79b0:cd04:e88f prefixlen 64 scopeid 0x20<link>
    ether b8:27:eb:ac:00:14 txqueuelen 1000 (Ethernet)
    RX packets 3234 bytes 156126 (152.4 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 353 bytes 33269 (32.4 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

Pi 3 IP

if your system plug & play not working, try do setting as below

Configuration

Ensure SPI Is Enabled

Menu > Preferences > Raspberry Pi Configuration

Click the *Interfaces* tab

Ensure SPI is enabled and click OK

If you changed anything, you'll need to reboot for it to take effect.

Tweak config.txt

Add the following to your /boot/config.txt

```
dtoverlay=enc28j60
```

Package Content

1x Pi-Zero Net RJ45x1 HAT Board 1x Manual

Pi Zero Net RJ45 use signal

VCC – 5v to 3v3 GND – GND CS – CE0 (gpio 8)

SI – MOSI (gpio 10) SCK – SCKL (gpio 11) SO – MISO (gpio 9)

IRQ (INT) – GPIO 25 ID_SC - HAT EEPROM ID_SC

ID_SD - HAT EEPROM ID_SC

