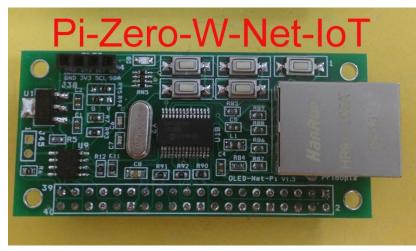
## Raspberry Pi - RJ45 Ethernet User Manual



#### Pi Zero Net RJ45 x1 spec

The Pi ZeroW Play Box provides one Ethernet RJ45 socket with a HAT EEPROM. It gives you an easy way to plug and play (PnP) in all Raspberry Pi models: A+, B+, 2B, 3B, Zero, Zero W.

#### **Features**

- **Software included**: Main Menu, Snake Game, Atari Breakout Game, System Information and Status, WiFi settings, Clock function, BBC RSS Feed, Shut Down function to prevent Pi OS Micro SD card crashing
- Five buttons: up, down, left, right, enter
- 0.96" 128x64 Pixels White OLED screen
- One blue LED for the keypad backlight
- 3.3V power regulator that doesn't take the 3.3V from the Raspberry Pi
- TX (Yellow) and RX (Green) LED indicators on the Ethernet connector
- Optional Pi ZeroW Play Box Kit (see Photo 8. "Pi ZeroW Play Box kit"):
  - A Micro SD card hole for easy insertion and removal
  - A camera cable hole for the Raspberry Pi camera module installations

#### Last login: Fri Aug 10 12:27:56 2018 from 192.168.1.6 root@raspberrypi:~# ifconfig th0: 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 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

#### coot@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> 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 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) 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) 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

10: 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:fld3: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 K1B) RX errors 0 dropped 0 overruns 0 frame 0 TX packets 353 bytes 33269 (32.4 K1B) 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.

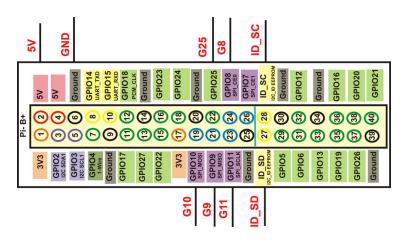
### Tweak config.txt

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



# 1. Pi Zero W Play Box Main Menu:



# 2. System Information:



## 3. Snake Game:

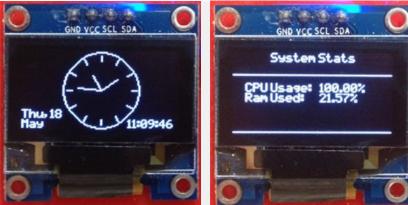


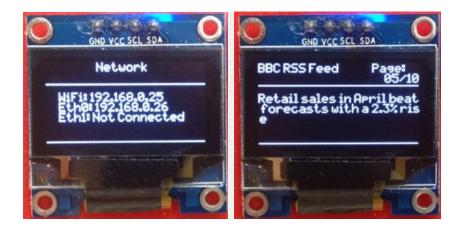


## 4. Atari Breakout Game:



5. Clock & Extra Functions (System Status, Network, BBC RSS feed):





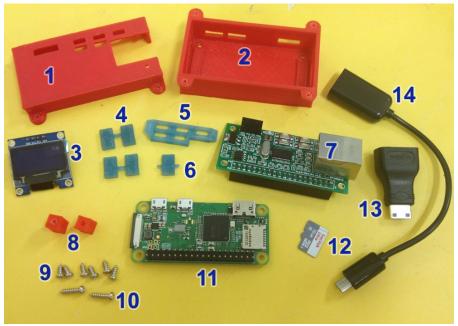
## 6. WiFi Setting (search SSID & setting password)





7. Menu [Exit] provides "Shut Down" function to prevent Pi OS Micro SD card crashing:





3D printed cover 2. 3D printed base 3. 0.96" 128x64 Pixels White OLED screen 4. Two buttons 5. Shaft button 6. Single button 7. Play Box function headboard 8. Two 11mm spacers, 9. Six M2.5 6mm screws 10. Two M2.5
10mm screws 11. Raspberry Pi ZeroW Board 12. 16GB Micro SD card 13. Mini HDMI to HDMI adapter 14. Micro USB OTG cable