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HackersGrid

## Orange Pi 2G – IOT – OS Installation and WIFI Setup using Serial Port

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Orange Pi has come out with its own counter to the Raspberry Pi Zero W. The Orange Pi 2G-IoT have an 802.11n Wi-Fi and

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Bluetooth 2.1 at the same time it provides a 2G Mobile Radio for cellular connectivity. The 2G radio supports GSM/GPRS data connections, and there is a SIM card slot on the underside of the board. Now I will explain How to install ubuntu and Setup up wifi in Orange Pi 2G IOT

### Watch The Video Tutorial

Orange-Pi 2G-IOT Setup | Linux Installation and WiFi Set...



### Writing Image on to the SD Card

Insert your Micro SD card into your computer. The size of card should be larger than the OS image size, generally 4GB or greater.

Format the SD card. Download the SD card format tool such as SDFormatter from

#### Download SD Formatter

Ads by Google

2G Iot

Serial Number

Setup

Router to WiFi

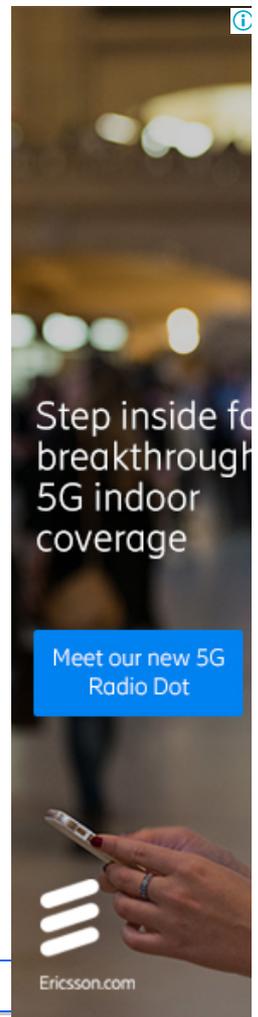
Unzip the download file and run the setup.exe to install the tool on your machine

In the "Options" menu, set "FORMAT TYPE" option to QUICK, "FORMAT SIZE ADJUSTMENT" option to "ON".



\$ using Arduino and Digispark

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Click the "Format" button.

Download the OS image from the Downloads webpage.

[Orange Pi OS Downloads](#)

Unzip the download file to get the OS image. Right click on the file and choose "Extract all".

Download a tool that can write images to an TF card, such as Win32 Diskimager from:

[Download Win32 Disk Imager](#)

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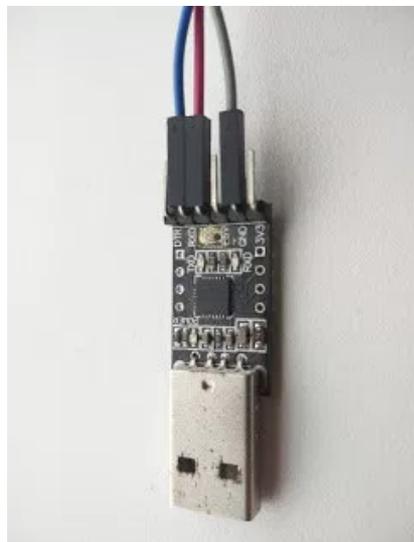
[IoT Network](#)

Open the unzipped image file.

Click Write button. Wait patiently to successfully complete writing.

### Initiating Serial Communication

If you don't have an LCD display, you don't have to buy one to get this working. I will be using the serial port to connect to orange pi and setup up WiFi so that you can ssh into it from any device. I had an old USB to TTL serial converter, so i will be using it to connect to orange pi and connect to my network.



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Orange Pi  
Zero H2  
Quad Cor...  
(4)

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Mar 18, 2018

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Now connect the converter to laptop and open putty.  
Select 'serial', set the correct COM port in putty and set baud rate to 115200.



### NXP i.MX6 SoM ARM Cortex A7/A9 - From \$24

Ad WiFi/BT, Single/Dual/Quad Core up to 1.2GHz, CAN, USB, UART, SPI, Display, Linux/...

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Now connect the power cable to Orange pi.  
If everything is done correctly, the red led will glow when the pi start to boot up from the SD card.

The login username is 'root' and password is 'orangepi'.

### Setting Up WiFi

There is a tool called WPA\_CLI which can be used to create and manage wifi networks.

First execute

```
add_network
```

the output will be an integer. This is the network number. (In my case it was 2)

now run

```
set_network 2 ssid "your network name" set_network 2 psk  
"your password"
```

now

```
select network 2
```

Now its connected to our network but it may not get the IP address. To get the IP address, execute

```
dhclient
```

Now check the IP address,

```
| ifconfig
```

If you got the IP, Congrates everything is done!! Now have fun!!

### Alternate Method



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### One comment



**Patience Federer** says:

September 2, 2017 at 2:34 pm

I enjoy you because of all of your labor on this blog. My niece loves going through investigations and it is easy to understand why. We know all relating to the dynamic form you offer sensible things through the blog and in addition inspire participation from others on this concept plus our favorite child is actually becoming educated so much. Take pleasure in the rest of the new year. You're the one performing a useful job.

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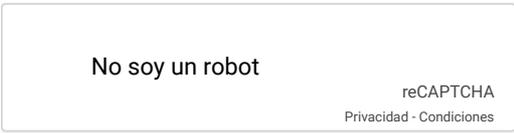
Your email address will not be published. Required fields are marked \*

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