

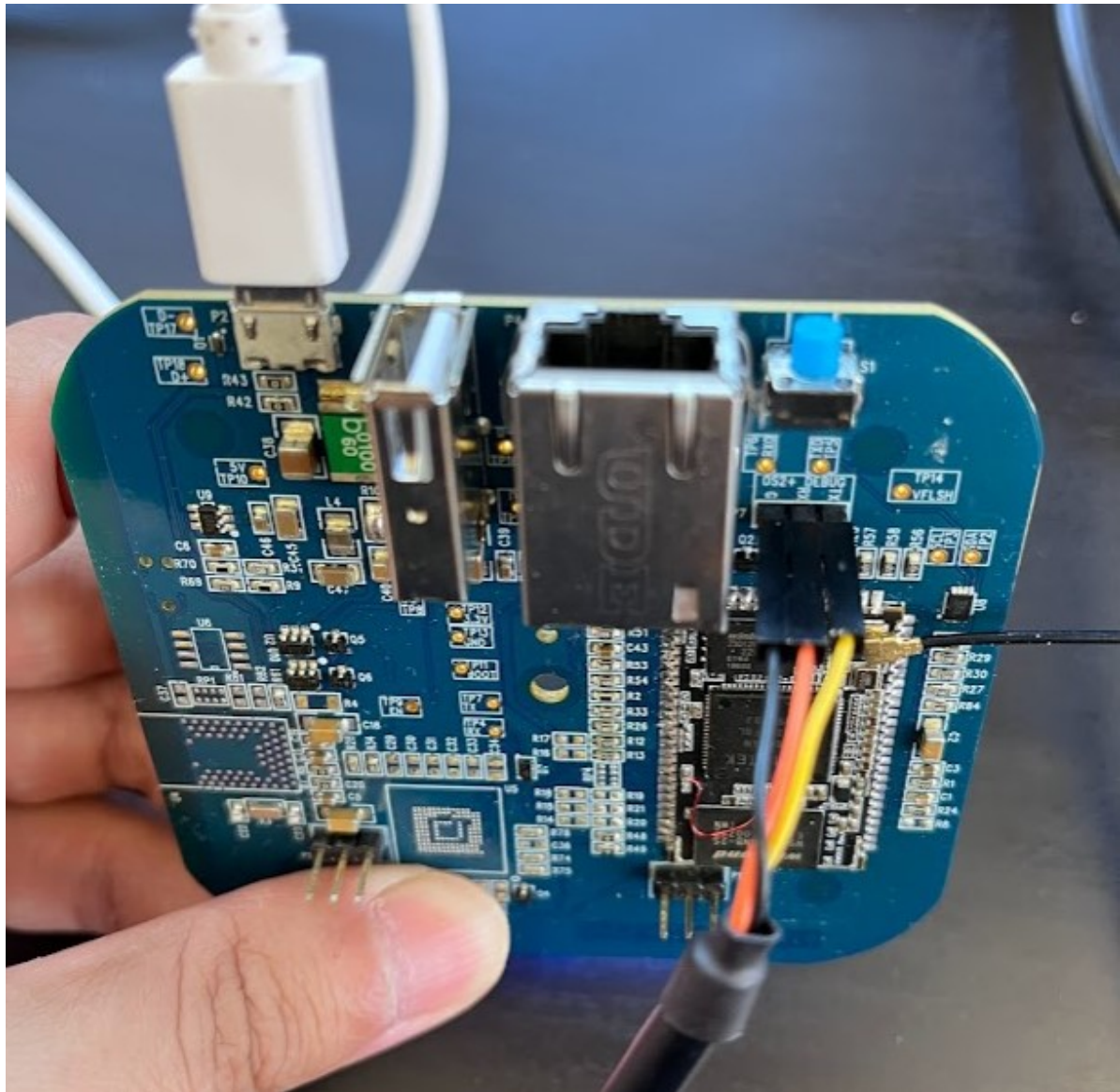
## Connect UART to computer and WIFI antenna

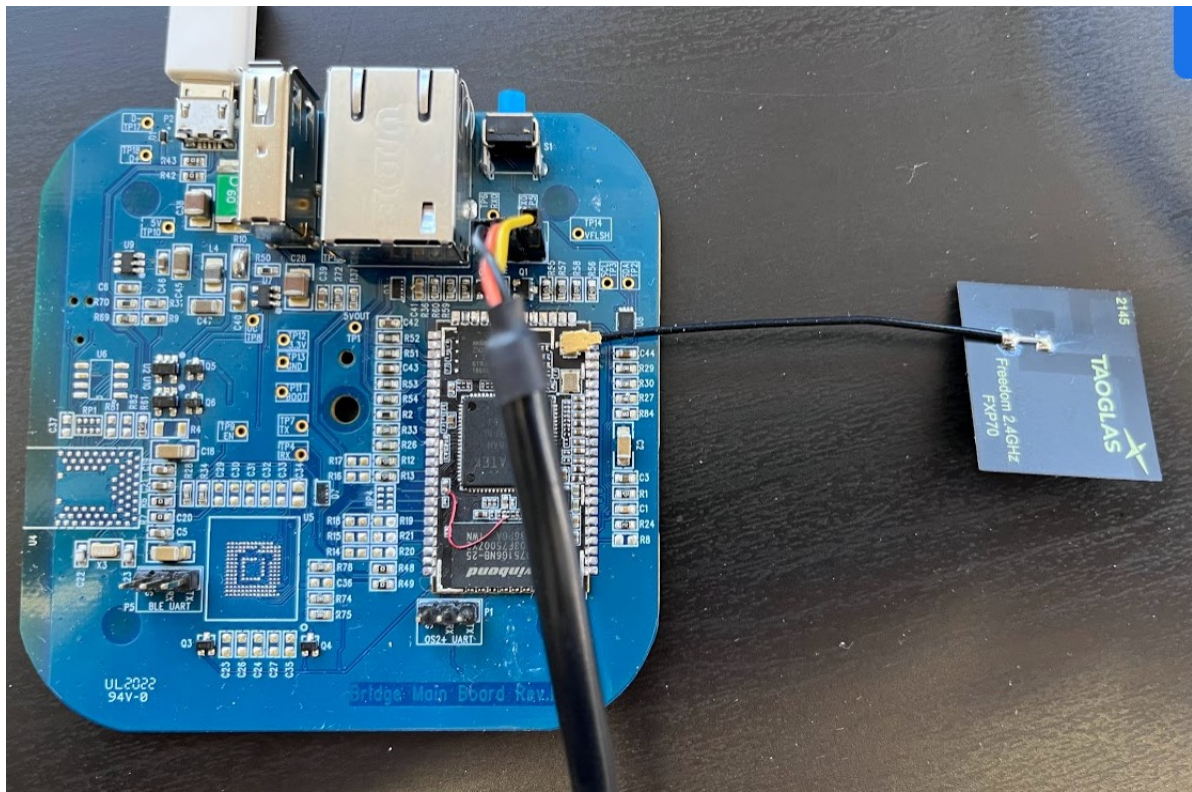
UART:

Black: GND

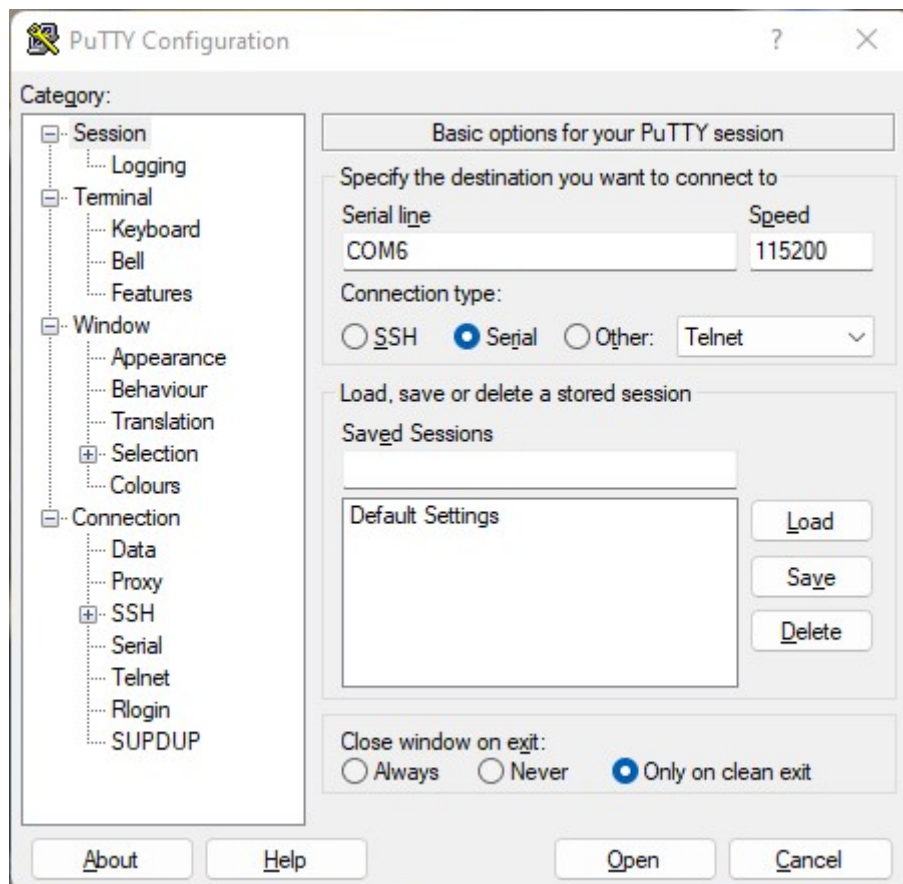
Orange: Rx

Yellow: Tx





Launch a terminal on PC, baudrate 115200



Power up a SmartBridge board, press 'ENTER' to see command prompt '#'

```
COM6 - PuTTY
[ 43.547077] IPv6: ADDRCONF(NETDEV_CHANGE): br-wlan: link becomes ready
[ 97.772973] random: crng init done

BusyBox v1.28.3 () built-in shell (ash)

  _ _ _ _ _
 / _ _ _ _ \   ( )   / _ _ _ _ \   _ _ _ _ _
/_ _ _ _ _/_ _ _ _ _/_ _ _ _ _/_ _ _ _ _/_
W H A T   W I L L   Y O U   I N V E N T ? / _ _ _ /
-----
  Ω-ware: 0.3.2 b244
-----

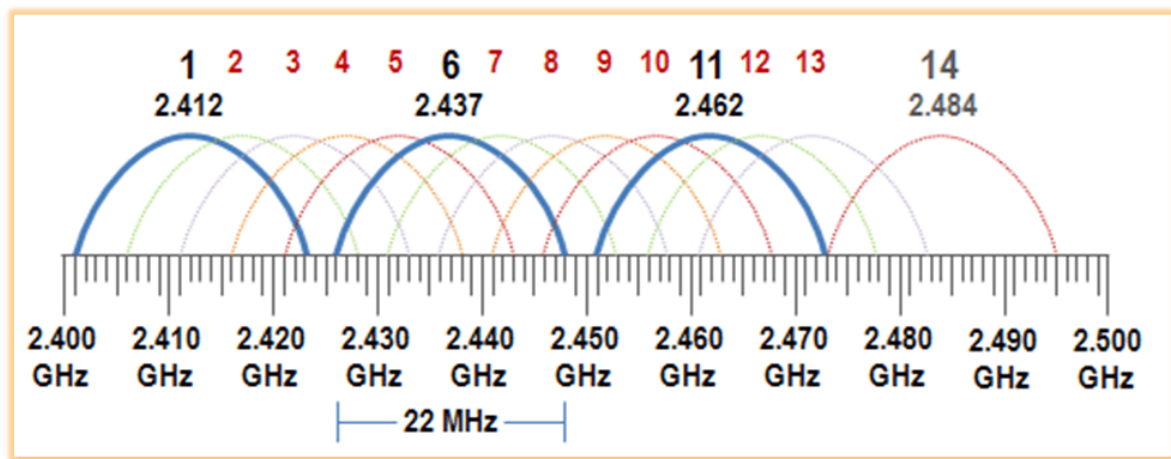
root@Omega-6AC0:/#
root@Omega-6AC0:/#
root@Omega-6AC0:/#
root@Omega-6AC0:/#
root@Omega-6AC0:/#
root@Omega-6AC0:/#
root@Omega-6AC0:/#
root@Omega-6AC0:/#
root@Omega-6AC0:/#
```

## Set default WIFI, Channel=7, TxPower=18, Mode=802.11g

```
iwpriv ra0 set ATE=ATESTART
iwpriv ra0 set ATEDA=00:11:22:33:44:55
iwpriv ra0 set ATESA=00:aa:bb:cc:dd:ee
iwpriv ra0 set ATEBSSID=00:11:22:33:44:55
iwpriv ra0 set ATETXMODE=1
iwpriv ra0 set ATETXMCS=0
iwpriv ra0 set ATETXBW=0
iwpriv ra0 set ATECHANNEL=7
iwpriv ra0 set ATETXGI=1
iwpriv ra0 set ATETXLEN=1500
iwpriv ra0 set ATETXANT=1
iwpriv ra0 set ATETXPOW0=18
iwpriv ra0 set ATETXCNT=100000
iwpriv ra0 set ATETXFREQOFFSET=10
iwpriv ra0 set ATE=TXFRAME
```

## Set Channel

```
iwpriv ra0 set ATECHANNEL=7          # Channel 1-11
```



## Set Tx Power

```
iwpriv ra0 set ATETXPOW0=18 # Tx power 0-31
```

## Set Mode

```
iwpriv ra0 set ATETXMODE=1 # Mode 0: 802.11b, 1: 802.11g, 2: 802.11b/g/n, 3: 802.11n
```

## Set HT40 or HT20

```
iwpriv ra0 set ATETXBW=0 # 0: HT20, 1: HT40
```

## Reset WIFI

```
wifi
```

## System reboot

```
reboot
```

## Automatic mode

```
Search WIFI hotspot like 'Omega-xxxx', join it with password 12345678.
```

12:06



< Settings

## Wi-Fi

Wi-Fi




✓ AbingoShop



### MY NETWORKS

Omega-6AC0



NETWORKS 

# Ping test samples by cell phone, laptop or other devices

# On Windows PC

```
ping -t -l 4096 192.168.3.1
```

# On Linux PC

```
ping -s 4096 -f 192.168.2.1
```

# On cell phone, download a App that can do 'ping'



12:15



192.168.3.1

Stop

	#16	<b>192.168.3.1</b> 64 bytes TTL=64	28.142 ms
	#15	<b>192.168.3.1</b> 64 bytes TTL=64	41.308 ms
	#14	<b>192.168.3.1</b> 64 bytes TTL=64	35.426 ms
	#13	<b>192.168.3.1</b> 64 bytes TTL=64	30.566 ms
	#12	<b>192.168.3.1</b> 64 bytes TTL=64	32.495 ms
	#11	<b>192.168.3.1</b> 64 bytes TTL=64	26.706 ms
	#10	<b>192.168.3.1</b> 64 bytes TTL=64	30.168 ms
	#9	<b>192.168.3.1</b> 64 bytes TTL=64	29.491 ms
	#8	<b>192.168.3.1</b> 64 bytes TTL=64	5.657 ms
	#7	<b>192.168.3.1</b> 64 bytes TTL=64	28.712 ms
	#6	<b>192.168.3.1</b> 64 bytes TTL=64	64.522 ms

Sent

17

Received

14

Lost

1

Loss

6.67%

Min

5.657

Avg

32.282

Max

64.522

Stddev

13.553

