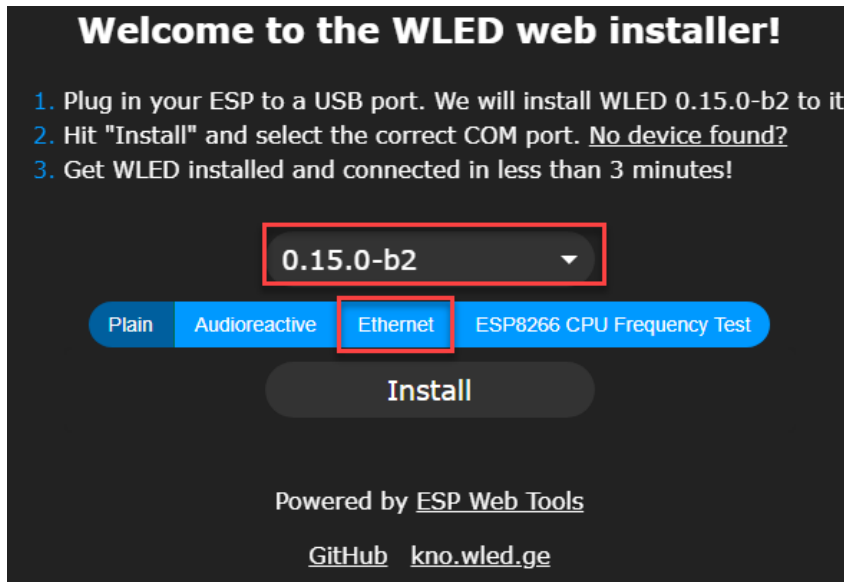
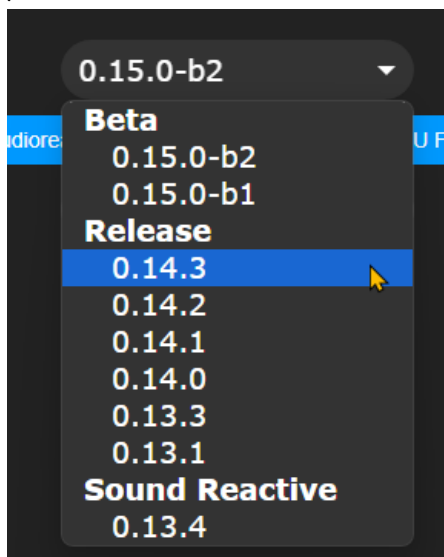


Installing WLED firmware on WT32-ETH01 board - Web Interface

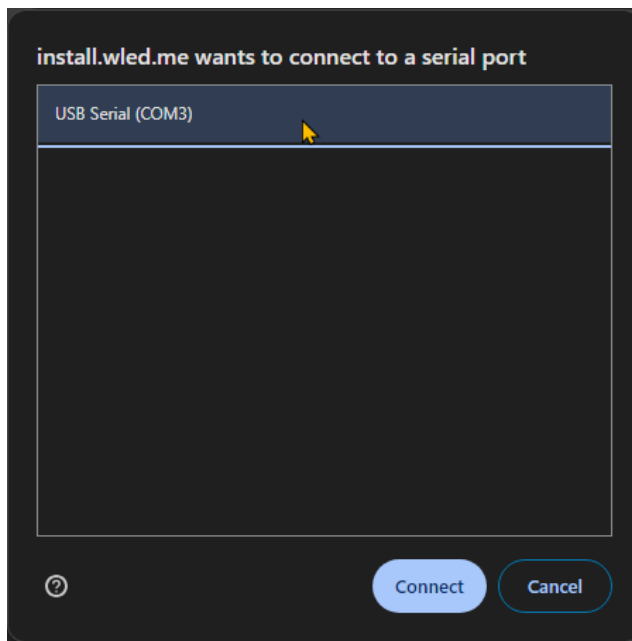
1. Mount WT32-ETH01 to appropriate slot on the board
2. Connect USB cable to the USB jack and on to computer
3. Using this link, connect to WLED web interface installer <https://install.wled.me/>



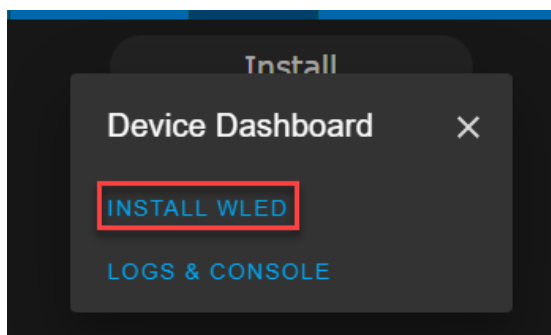
4. Select Ethernet from the blue bar and click the dropdown and select current stable release (which as at the time of this documentation is 0.14.3)



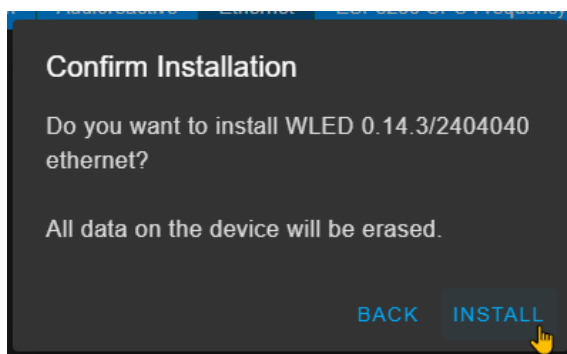
5. Click on Install and a new pop up window will show up where active communication port can be selected. Select communication port (This example showed as USB Serial COM3), click Connect



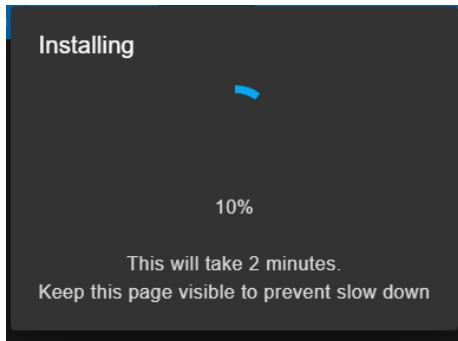
6. Communication should be established and device dashboard will show up. Click INSTALL WLED



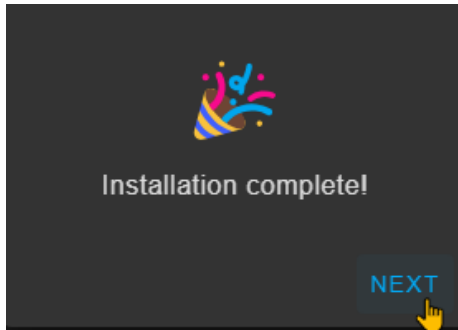
7. Select INSTALL from the new window



8. A window showing install status will come up



9. Click next when Installation complete window is up

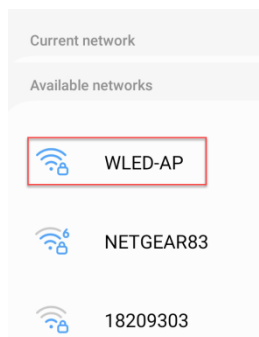


10. Close the device Dashboard window

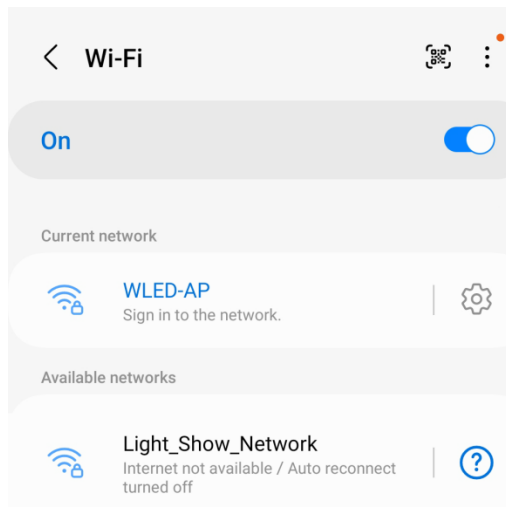
WLED Configuration

This documentation will only discuss how to connect WT32-ETH01 to your network and configuring the output. There are a lot of YouTube videos that can assist with details of how to use WLED. The configuration steps described below will be performed on Android phone. Steps are similar on iPhone or if done on a computer.

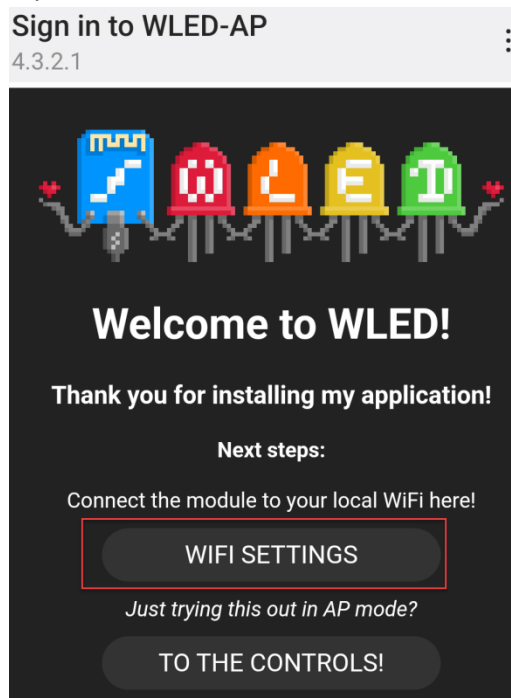
1. Once WLED firmware is successfully installed, use the steps below to configure WLED on the WT32-ETH01. While the board is still mounted on the board and connected to the computer USB port, open Android phone and go to settings -> Connections and tap on Wi-Fi, there should be WLED-AP in the available networks. Tap on WLED-AP



2. Phone should now be connected to WLED AP



3. Tap on WIFI SETTINGS



4. Configure your specific Wi-Fi in the new window

Sign in to WLED-AP
4.3.2.1

?
Back
Save & Connect

WiFi setup

Connect to existing network

Scan
A

Network name (SSID, empty to not connect):

Your_Network
B

Network password:

C

Static IP (leave at 0.0.0.0 for DHCP):

0 . 0 . 0 . 0
D

Static gateway:

0 . 0 . 0 . 0
E

Static subnet mask:

255 . 255 . 255 . 0
F

mDNS address (leave empty for no mDNS):

http:// wled-ea0b1c .local

Client IP: Not connected

Configure Access Point

AP SSID (leave empty for no AP):

- Tap on Scan to scan Wi-Fi network
- Select your Wi-Fi from the list
- Type Wi-Fi password in the box
- Type static IP address
- Type static gateway
- If your network subnet mask is different from default, type it here

Static IP (leave at 0.0.0.0 for DHCP):

192 . 168 . 1 . 20

Static gateway:

192 . 168 . 1 . 254

Static subnet mask:

255 . 255 . 255 . 0

- Scroll all the way down to Ethernet Type

- h. Select WT32-ETH01 from the list
- i. Tap Save & Connect to save the configuration

Sign in to WLED-AP

4.3.2.1

?

Back

Save & Connect

AP SSID (leave empty for no AP):
WLED-AP
Hide AP name: ☐

AP password (leave empty for open):
.....

Access Point WiFi channel: 1

AP opens: No connection after boot ▾
AP IP: 4.3.2.1

Experimental

Force 802.11g mode (ESP8266 only): ☐

Disable WiFi sleep: ☒
*Can help with connectivity issues.
Do not enable if WiFi is working correctly, increases power consumption.*

Ethernet Type

WT32-ETH01 ▾

Back

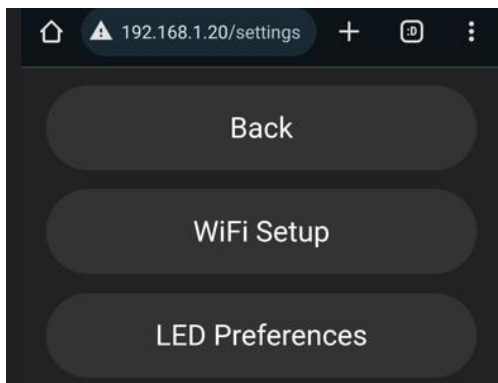
Save & Connect

- j. Connect to the Wi-Fi that was configured above on the phone
- k. Open a browser and type in the IP address configured above

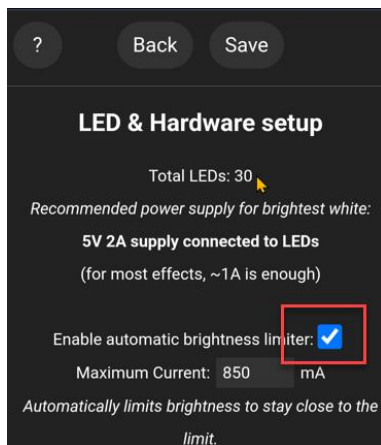
WLED Screen below should be shown



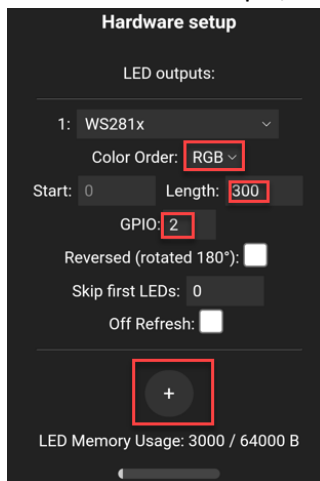
- l. From top icons, tap Config
- m. Tap on LED Preferences



- n. From LED & Hardware Setup, uncheck the brightness to avoid issues with LED flickering when WLED tries to limit current to LEDs. However, if this setting is crucial to your use case, leave it checked



- o. Scroll down to LED Outputs to configure output ports. Output 1 is displayed
 Select LED type. Default is WS281x
 Select Color Order: RGB in this example
 Type number of LED (Length) 300 in this example
 GPIO: 2 in this example, taken from table below



Tap the plus sign to add next output until all 8 outputs have been configured

Note: There is a table on all our boards indicating what entries to use for each configured output in WLED

Output	GPIO	WLED
1	GPIO2	2
2	GPIO4	4
3	GPIO12	12
4	GPIO14	14
5	GPIO15	15
6	GPIO17	17
7	GPIO5	5
8	GPIO33	33

Below are screenshots of all 8 outputs as configured in WLED indicating all GPIO pin numbers

LED outputs:

1: WS281x

Color Order: RGB

Start: 0 Length: 300

GPIO: 2

Reversed (rotated 180°): ☐

Skip first LEDs: 0

Off Refresh: ☐

2: WS281x

Color Order: RGB

Start: 300 Length: 300

GPIO: 4

Reversed (rotated 180°): ☐

Skip first LEDs: 0

Off Refresh: ☐

3: WS281x

Color Order: BGR

Start: 600 Length: 300

GPIO: 12

Reversed (rotated 180°): ☐

Skip first LEDs: 0

Off Refresh: ☐

4: WS281x

Color Order: BGR

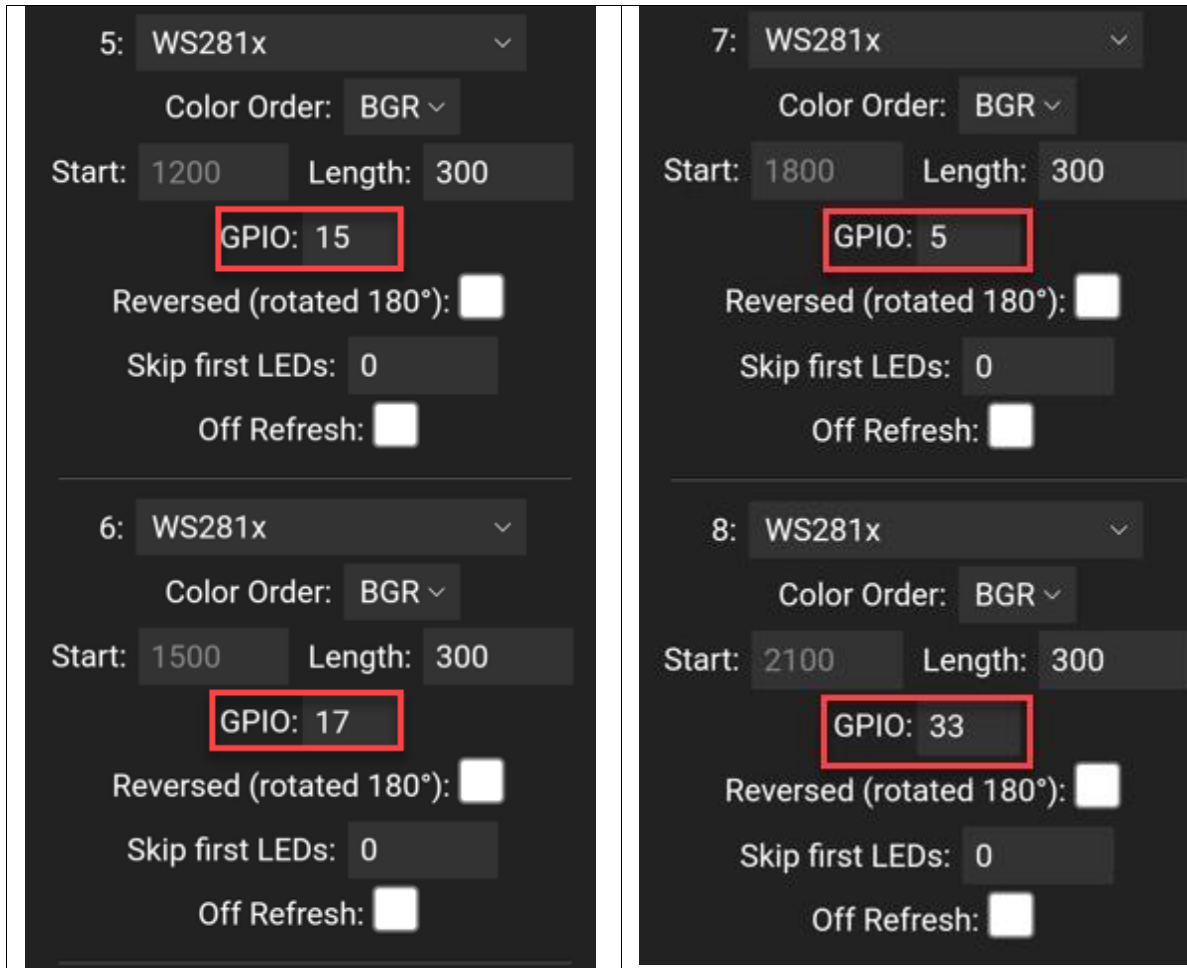
Start: 900 Length: 300

GPIO: 14

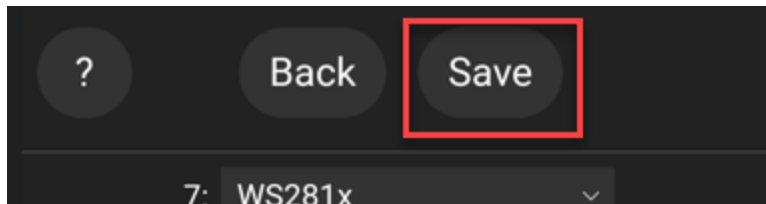
Reversed (rotated 180°): ☐

Skip first LEDs: 0

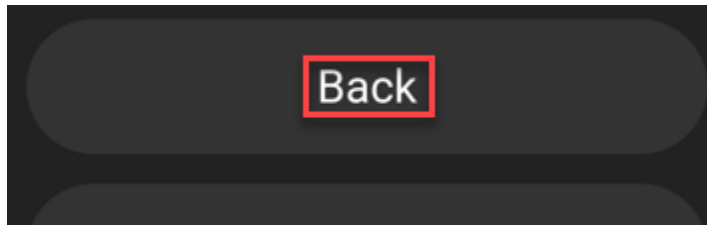
Off Refresh: ☐



- p. Tap the Save button



- q. Tap the Back button to be in home page



Board can now be disconnected from computer WLED has been successfully loaded and configured.