



GlowCore v3.0

Quick Start Guide

Learn how to get started
with your GlowCore dev board.

glowcore.glowingkitty.com



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Step 1:

Connect LED strips

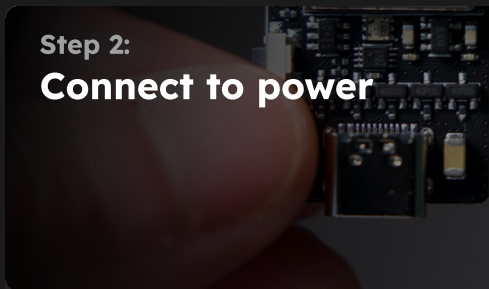


Connect your LED strip to GlowCore, by soldering the needed wires to the pads on the back of GlowCore. Assuming you want to connect WS2812B LED strips (5V), you can solder all three wires of the LED strip directly to GlowCore. But before connecting everything to power, make sure you didn't cause a short circuit.

Tip: Solder a 3 pin connector to GlowCore instead, so you can easily connect and disconnect your LED strip later.

Step 2:

Connect to power



Power your GlowCore using a 5V power source. The easiest way is via a USB-C cable. GlowCore can be connected to any USB or USB-C power source that outputs a minimum of 10W. This could be a power supply, an external battery, or even your laptop.

Step 3:

Connect to WiFi

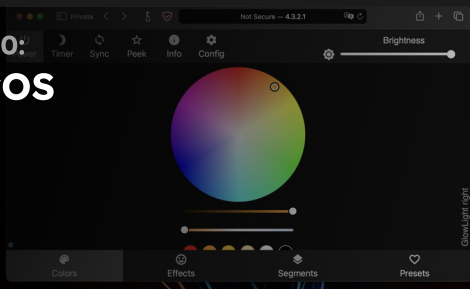
NETWORKS

GlowCore

By default, GlowCore will automatically initiate a WiFi hotspot with its name and unique color code. To connect, use the default password **lets glow**. Later you have the option to change this password or connect GlowCore to your home WiFi network.

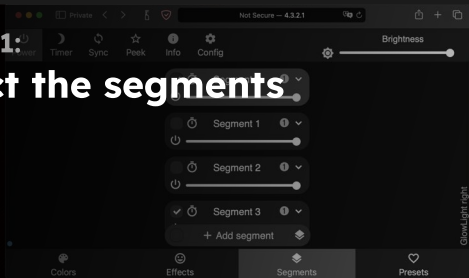
Step 4.0:

GlowOS



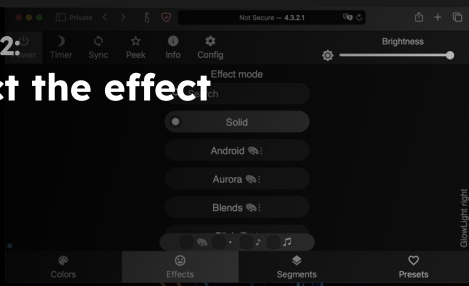
GlowCore runs GlowOS, a customized version of the famous open-source software WLED. GlowOS is equipped with over 100 LED effects that can be applied to any segment of your connected LEDs. These effects can be further personalized, offering nearly limitless combinations. Once you connect to your GlowCore board, a popup should appear, with the control interface of GlowOS/WLED. If not, open your web browser and the URL <http://4.3.2.1>.

Step 4.1: Select the segments



You can control every RGB LED connected to GlowCore to glow whatever color and effect you want. To select the LEDs you want to change, select the segment (a group of LEDs) in the **Segments** tab. You can also create custom segments if you like, for even more control.

Step 4.2: Select the effect



After selecting what LED segments you want to change, go to the **Effects** tab to select what effect they should glow in. Scroll down to explore the long list of over 100 effects.

Step 4.3:

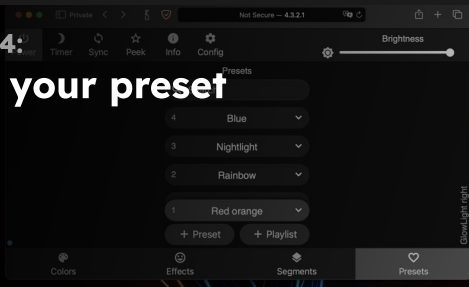
Select the color



If you want to change the color of the effect, go to the **Colors** tab. If you have the **Solid** effect selected, you can change the current color using the color wheel or the slider or circles underneath. For other effects, you can also select a color palette, which then applies to the selected effect on the selected segments.

Step 4.4:

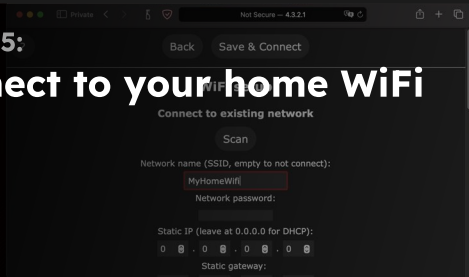
Save your preset



If you're happy with the glow of your LEDs after experimenting with Segments, Effects, and Colors, you can save the current combination as a preset in the **Presets** tab. Simply click on "+ Preset" to store the current combination for future use and to effortlessly switch between your preset effects.

Step 4.5:

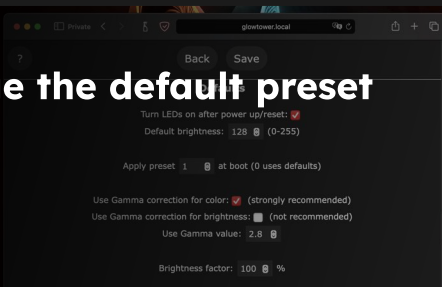
Connect to your home WiFi



For easier access to the GlowCore interface, you can connect it to your home WiFi. Click on the **Config** button located in the top menu of the control interface, then select **WiFi Setup**. Add your **network name** and **password**, then click **Save & Connect**. After unplugging your GlowCore from the power source and reconnecting it, the board will automatically connect to your home WiFi. If your WiFi network cannot be found, it will initiate its own hotspot instead.

Step 4.6:

Change the default preset



If you want GlowCore to automatically start glowing in the preset you created, you can configure this in the settings. Remember the number of your preset. Then click **Config**, **LED Preferences**, then scroll all the way down to **Apply preset ... at boot**. Here you enter the number of your preset and press **Save**.

Step 5:

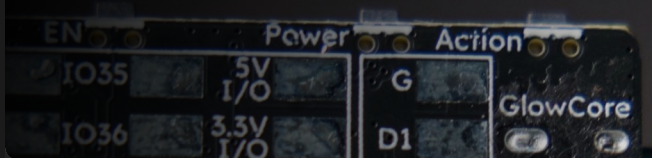
The action button



GlowCore features three buttons on its side. The one nearest to the USB-C port is the Action button. A single press will switch to the next saved LED preset, while a long press will adjust the brightness, first decreasing it, then increasing it.

Step 6:

The power button



The button located above is the power button. A single press will turn the LEDs and GlowCore off/on. If you press and hold it, you'll activate the Power Saving Mode. In this mode, the ESP32 S3 enters a sleep state, while the LEDs continue to glow in their most recent state. Should you wish to restart your GlowCore, simply press the reset button located above.

If you want to learn how to program GlowCore
yourself and much more:

Check out the User Manual!



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GlowCore v3.0 **User Manual**

Learn everything you want to know
about your GlowCore dev board.