

# Pico Wifi Analyzer with LCD

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## Introduction

This project was borne out of the fact that we were starting one of our other projects, and while messing about with the Pico, an LCD Screen and Wifi connections, I had a bit of a Eureka moment, thus the Wifi Analyzer project was born.

There are some considerations around this project, and in no particular order, they are:

- This is Phase 1. Phase 2 will be a different LCD
- We are using the Pico 2W - A Pico 1 W will also work very well.
- The Project will contain 3 Main Areas: **(1)** The Wiring and Hardware. **(2)** The Software. **(3)** The Enclosure.
- Depending on the LCD you use, your UI experience may differ.
- The project name is a little misleading, this is not an Analyzer, its a Monitor.

As I have said, this is Phase 1 and it is using a 128x64 Pixel LCD, which you can accommodate all of the relevant information, but it is not graphical and it's pretty small to read.

I started this project because I have a few SSIDs at home, as well as a couple of Routers with Wifi, occasionally one of them drops out and does not recover, so I wanted a visual device that I could glance at to see what the state of the different Wifi SSIDs is. For this reason, this device sits on top of my monitor.

If you would like to make one of these, then please read on, we will explain the hardware, the wiring, the Software and you can download the Software as well as the 3D STLs once it is all finished.

There are four sections on this Wiki that you will have to complete first, which explains the wiring, how to test your LCD address, get your Pico MAC Address etc, you will need this information before starting the main project.

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