

Recommended links for purchasing the required components:

1. MicroController +LCD

www.lilygo.cc/products/t-display-s3 (Important: choose the Touch Soldered Version model H589)

2. Amplifier+DAC

<https://www.sparkfun.com/products/14809> (Module based on MAX98357AI2S- 3W Class D Amplifier Breakout)

3. Speaker 5W 4 Ohm 40mm or similar for example -

www.amazon.com/CocinaCo-Range-Audio-SpeakerLoudspeaker/dp/B07VB74BW9

4. Optional components: You can operate the radio using one 18650 battery by using the small red & black cable supplied with your Microcontroller.

www.sparkfun.com/products/12895 Battery holder

www.sparkfun.com/products/12899** Battery

5. ON/OFF Switch -

ON/Off Rocker Switch (2 pins 10X15 mounting hole)

6. LED 3mm (it will be connected instead on the charging indicator LED on the board)

7. Note: There are many similar products from other vendors, they will all work.

8. Note: you can use other DAC's that support I2S such as PCM5102A, UDA1334A, CS4344. Other HW may work but not tested.