

Technical Guide

Specification

- WeMOS Lolin32 Microcontroller
 - 320Kb Memory
 - 4Mb Flash Storage
 - 802.11b/g/n Wi-Fi
 - Li-Ion Battery Charger
- 18650 2500mAh Battery
- MAX9835A PCM Amplifier
 - Class-D Amplifier
 - 4W Output @ 4Ω

Configuration

1. Switch Off MWR
2. Open MWR Shell
3. Install Jumper across labled pins **13 & 15** on the microcontroller
4. Power on MWR
5. Connect computer to Wi-Fi network **"MWR-WIFI-SETUP"**
6. Open web browser and navigate to **192.168.1.1**
7. Enter a Hostname, SSID, Password and URL
8. Click Save and remove Jumper
9. Close MWR Shell

Debug / Update

1. Connect USB Micro Cable to computer
2. Install Drivers, If needed
3. Configure UART to 8N1, 115200 Baud

Battery Charging

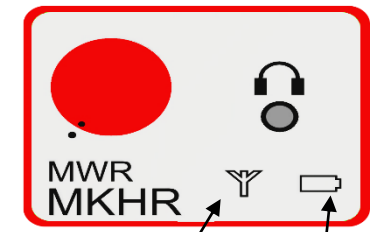
1. Make sure control knob is rotated to ON position
2. Insert USB Micro Cable and connect to a computer or wall charger (*must be capable of 500mA [0.5A] or more*)
3. Wait until battery status light reaches charged or Normal state
4. Rotate control knob to OFF position

Alternatively, battery cell may be removed and charged in a compatible charger.

Status Indicators

Network Status

Indication	State
Off	Connected / Device Off
Flashing	Disconnected / Configuration Mode



Network Battery

Battery Status

Indication	State
Off	Device Off
Steady	>80 Capacity remaining
Slow Flashing	>30% Capacity remaining
Fast Flashing	<30% Capacity remaining, Recharge required
Short-Long Flash	Charging complete, device can be disconnected from charger