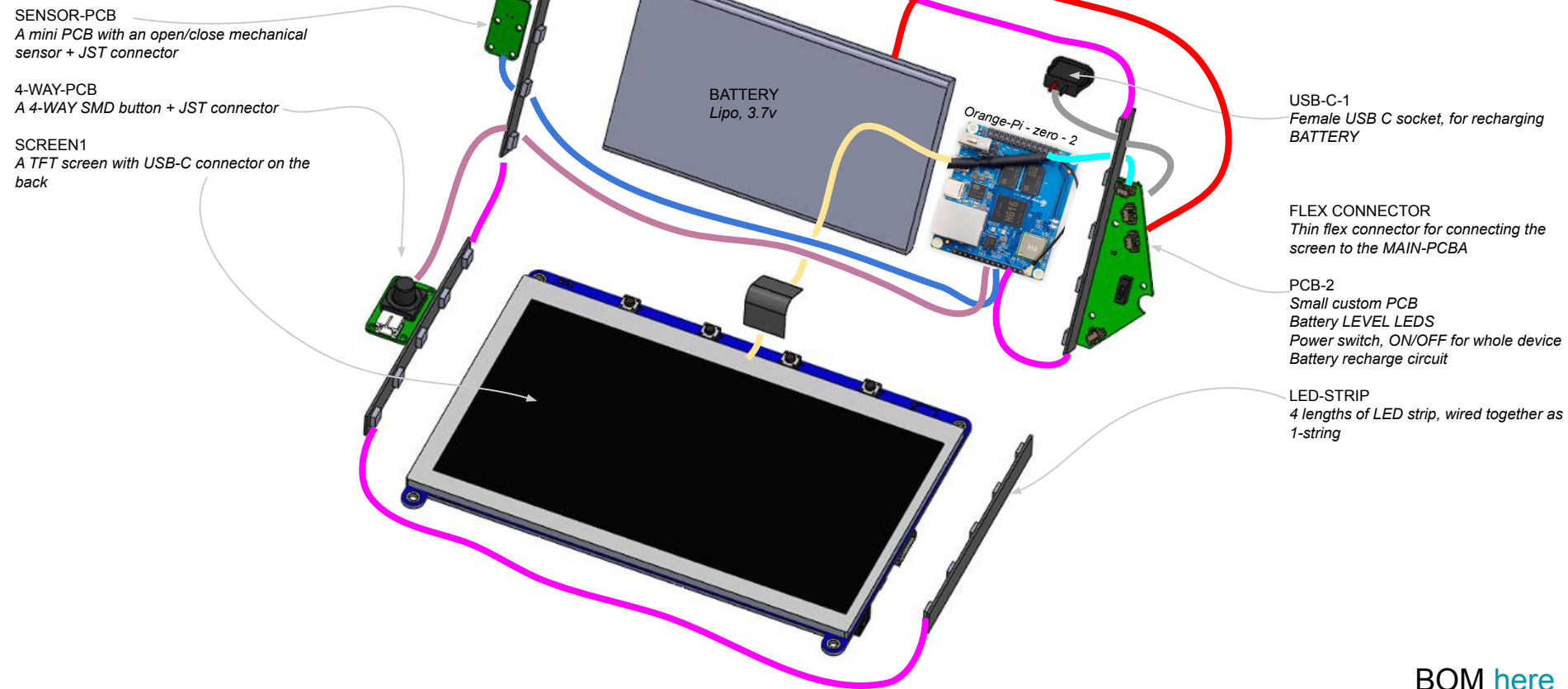


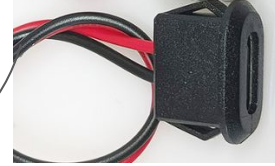
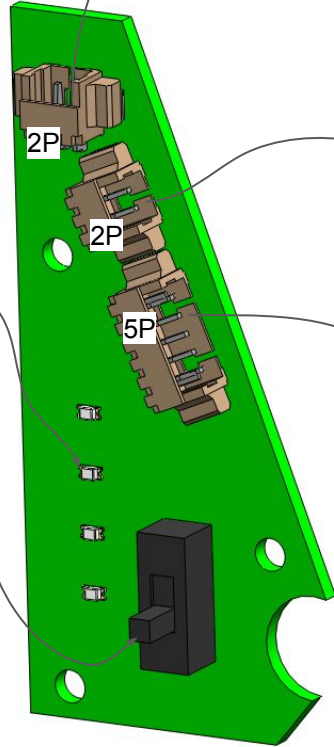
1. Do the wiring diagram according to page2
2. Design the little pcbs, Sensor PCB, 4-WAY PCB, PCB2, add to wiring diagram
3. Port image file to orange pi - test on screen
4. Write new firmware for functions on pages 4 5 and 6 for orange

PARTS LAYOUT

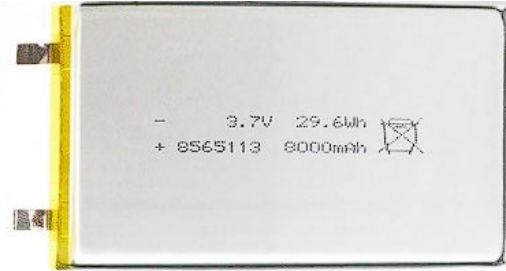


PCB2
Step-up voltage to PI
Do the recharge circuit using TC4056A or similar
Show battery level
Control power to PI (on/off)

Functions:
Battery LEVEL LEDS
Power on/off to PI
Battery recharge circuit



USB-C charger
5V 3A



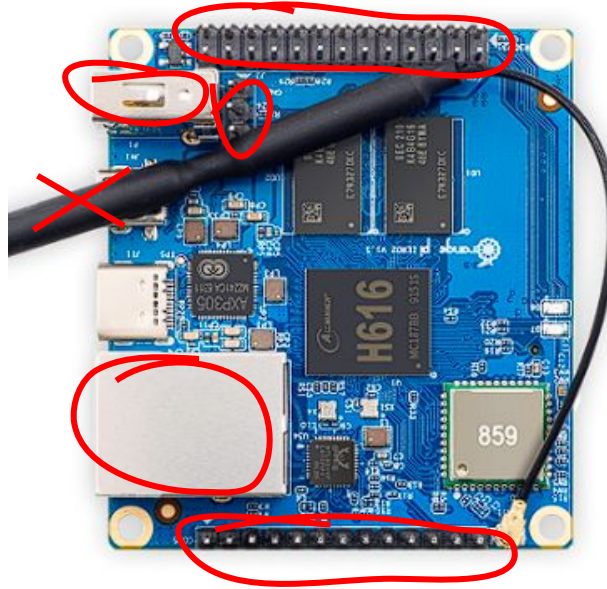
2 pins for power
1 pin, pcb2 communicate to orange-pi
1 pin, orange-pi communicate to pcb2

Orange PI zero 2

Even if battery is being recharged,
this 5V 2A output must remain stable

5V 3A

It needs to be thin, inside the final product so the following items should be remove from the board



FLOW CHART

FLOWCHART

POWER SWITCH

Turn to position 1 (on)
Device = ON

Turn to position 2 (off)
Device = OFF

SENSOR1

*Detect if the device is open
or closed*

SENSOR1 = Closed

Device is closed
LED-STRIP = OFF
LCD = OFF
orange-PI = SLEEP

SENSOR1 = Open

Device is open
LED-STRIP = ON
orange-PI = ON
LCD = ON
(if LED-STRIP is enabled)

Show Battery_level x 3 seconds

BRIGHTNESS

*Adjust brightness, there
are 10 levels of brightness
where level 1 is the least
bright and level 10 is the
highest bright and they are
adjusted in levels of 10%*

Device is =
ON + OPEN

Press + hold 4WAY
x 2 seconds

Enter brightness
adjustment mode

Flash LED-STRIP x 2
*(this means its in brightness
adjustment mode)*

Press 4WAY, UP x 1
= Increase brightness 1 level

Press 4WAY, DOWN x 1
= Reduce brightness 1 level

Press + hold 4WAY
x 2 seconds

Exit brightness adjustment
mode

Flash LED-STRIP x 3
*(this means it has exited
brightness adjustment mode)*

FLOWCHART

DISABLE-ENABLE

When the device is opened/closed, LED-strip light will automatically turn on/off if enabled-disabled.

LED strip light is enabled ON by default

Device is OPEN

Long press DOWN direction, 4-WAY =
Enable if disabled
Disable if enabled

IF change to enabled, flash 3 times
LED-strip light, then turn ON

IF change to disabled, flash 2 times
LED-strip light, then turn OFF

RECHARGE

Connect 5V-CHARGER to
USB-C-1

Charger supply:
5 volts, 1000 ma

Flash slowly,
battery LEDs
according to the
charged capacity

FLOWCHART

LOAD .IMG



Load .img to
SD CARD



Load to RPI

*Temporarily connect it to the
hotspot on the RPI*

Change this to BLE
process

BLE connectivity



Phone passes data
to screen (by BLE)

BLE connectivity



Use 4WAY
Scroll up, down, left,
right on screen
display (displayed
from phone by BLE)

Below is a list of details about our mobile app:

- It is built for only iOS.
- Currently, the files are put on an SD card, inserted on a RPI, and need wifi to connect the device to the app.
- The image used to burn onto SD: https://drive.google.com/file/d/1cm67nAKRhkbbGX5w50zBW7ONim_GSlkb/view?usp=sharing
- The following site is used to host the display page: <https://www.ssdnodes.com/>
- Wireframe is attached/uploaded

Below are some details to connect the RPI to the wifi hotspot:

Hotspot name: voyd

Username: voyd

Password: voyd09022021

Go to site voyd.local see a form website

Username: admin

Password: secret

Below are some details to access the site the RPI is pointing to:

<https://portal.voydofficial.com/admin/login>

admin@manaknight.com

a123456

The dashboard url in the raspberry pi image will be

<https://portal.voydofficial.com/dashboard?code=<code>>

Search

Codes

Code	Is Used	User Details
rF9UDNRQ	Yes	First name: Member Last name: Member
9ngSmvjO	Yes	First name: Fikasaj Last name: Secbuf

AA portal.voydofficial.com

Each dashboard is different for each user and they are given their own code, previously updated when manually imaging on the SD card. The code is generated on the portal

<https://portal.voydofficial.com/admin/login>

User: admin@manaknight.com

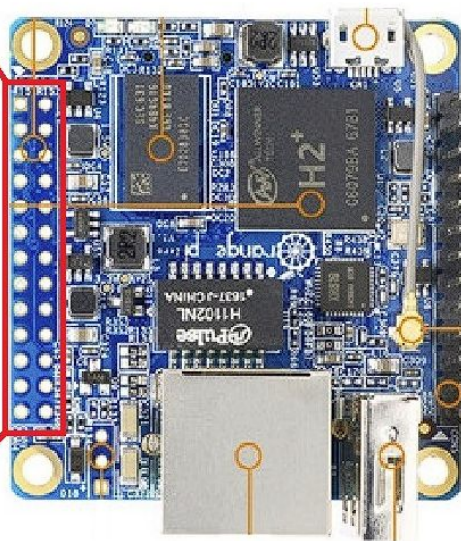
Password: a123456

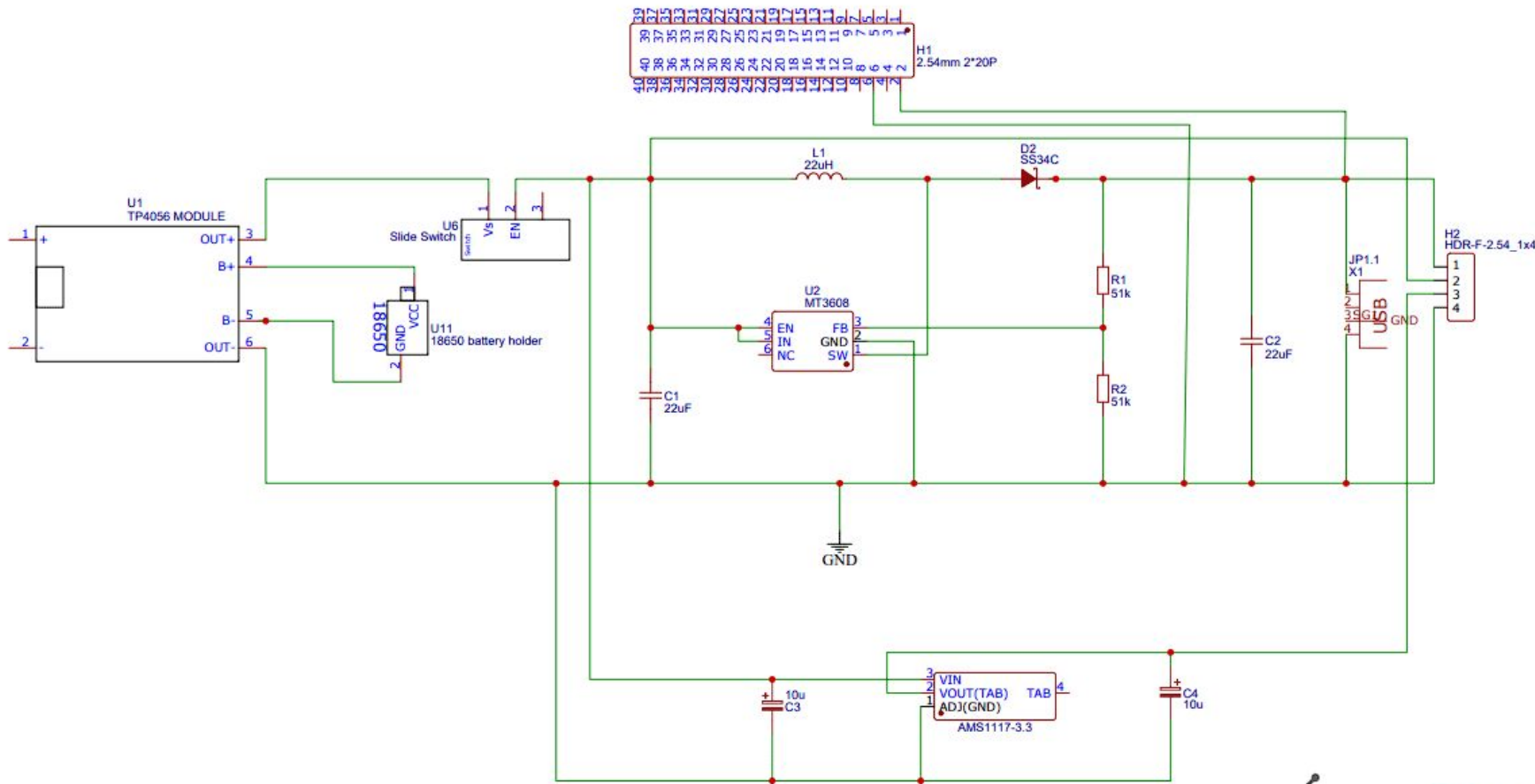
The dashboard url in the raspberry pi image will be

<https://portal.voydofficial.com/dashboard?code=<code>>

ARCHIVE - IGNORE THE BELOW

Alternate Function		Pin No.			Alternate Function
	3.3V PWR	1		2	5V PWR
I2C1 SCA	GPIO 12	3		4	5V PWR
I2C1 SDL	GPIO 11	5		6	GND
	GPIO 6	7		8	GPIO198
	GND	9		10	GPIO199
UART2 RX	GPIO 1	11		12	GPIO 7
UART2 TX	GPIO 0	13		14	GND
	GPIO 3	15		16	GPIO 19
	3.3V PWR	17		18	GPIO 18
SPI1 MOSI	GPIO 15	19		20	GND
SPI1 MISO	GPIO 16	21		22	GPIO 2
SPI1 SCLK	GPIO 14	23		24	GPIO 13
	GND	25		26	GPIO 10
					SPI1CS0





1. Revise to MR/AMR sensor Hide inside mirror area

Hardware

- rebuild it on 16GB stick

Mobile

- move the setting and profile down on menu
- replace onboarding images
- location section remove dropdown and put text only

Dashboard

- remove white border
- move date stuff text to the right
- open link in full screen mode

Steps to build product

- take the image i get you and burn it to an sd card <https://www.balena.io/etcher/>
- go to admin portal and choose a sync code
- open sd card and find url.txt -> and replace the sync code and click save
- connect the sd card to raspberry pi
- solder a wire on the third pin from the right with a push button
https://www.google.com/search?q=push+button&rlz=1C5CHFA_enCA925CA925&oq=push+button&aqs=chrome..69i57j0i512l9.1560j0j7&sourceid=chrome&ie=UTF-8
- connect power supply
- connect lcd power and hdmi to raspberry pi
- boot it up
- once its up, go to phone and connect to hotspot voyd
username voyd
password voyd09022021
- go to site voyd.local see a form website
type in
admin
secret
- choose a wifi to use and device will remember that wifi



 Schedules



VOYD

 Notes