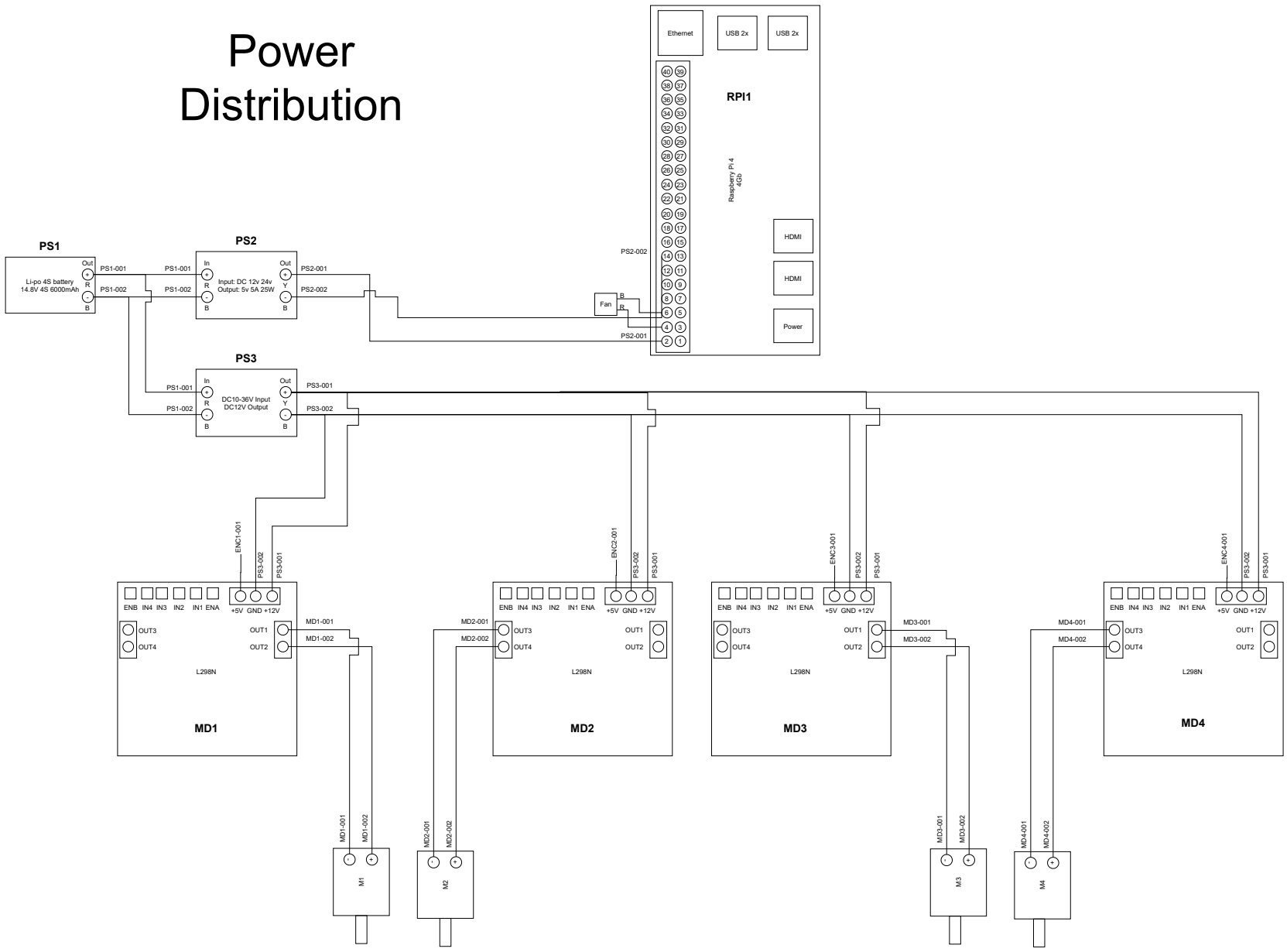
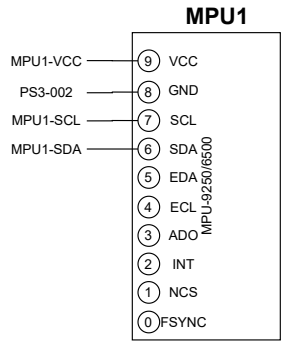
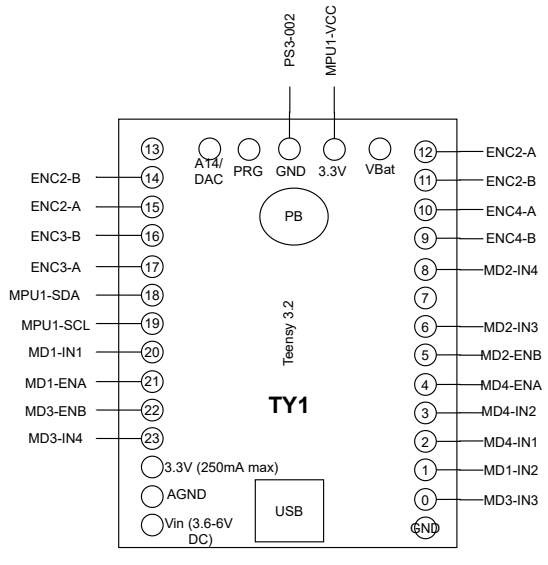
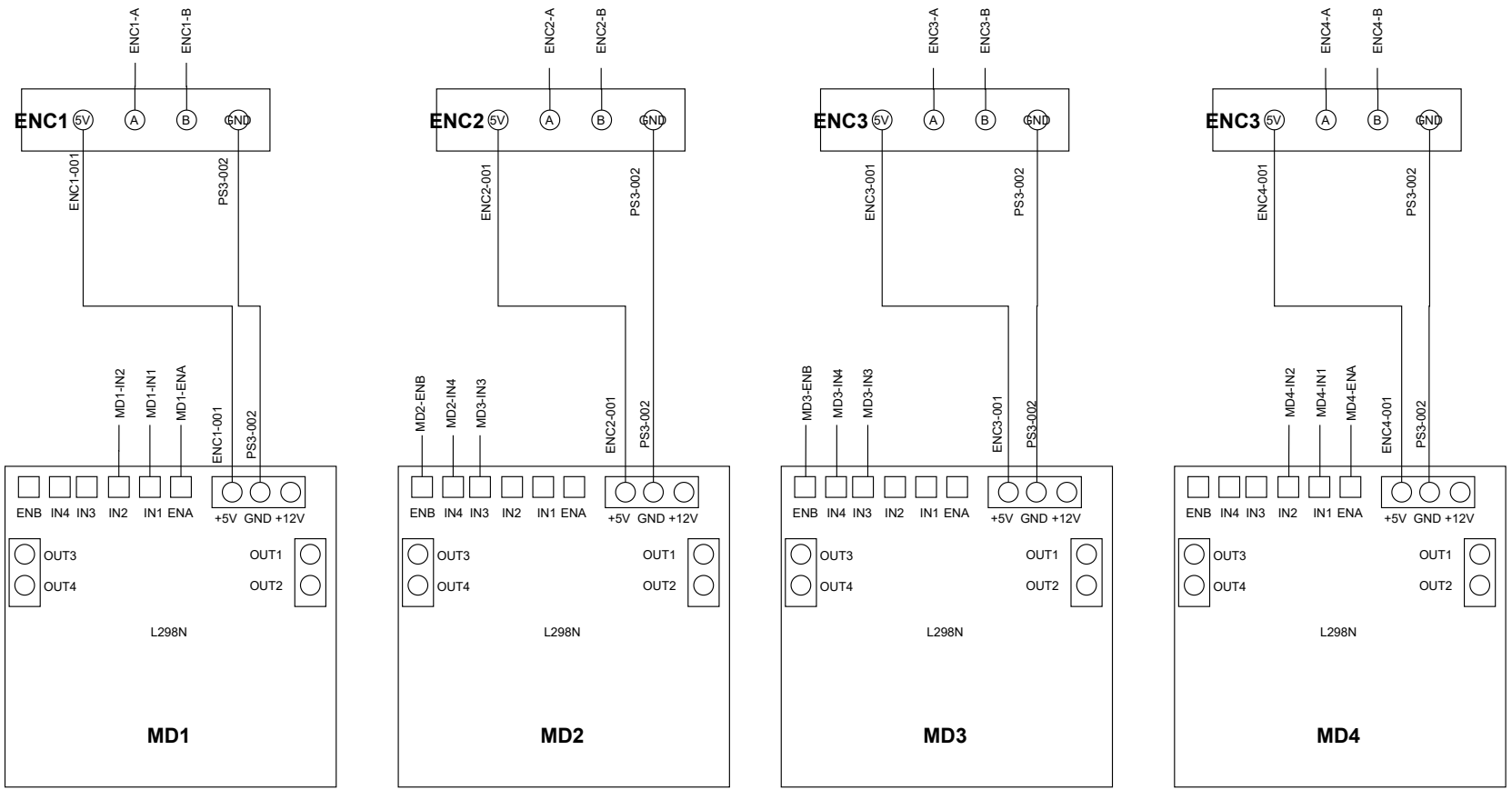
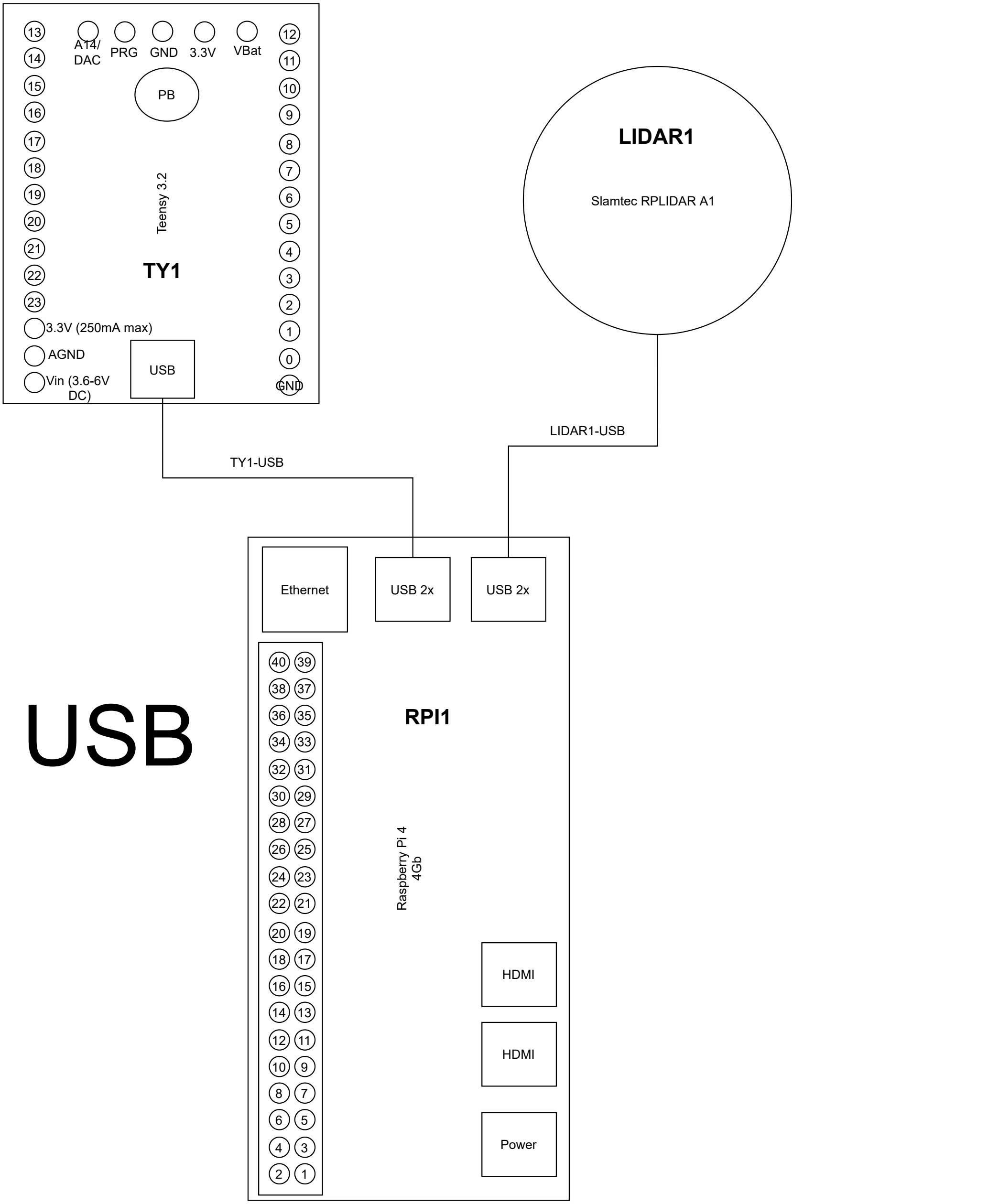

Power Distribution
PS1
Li-po 4S battery
14.8V 4S 6000mAh
Out
PS1-001
PS1-002
PS2
In
Input: DC 12v 24v
Output: 5v 5A 25W
Out
PS2-001
PS2-002
PS3
In
DC10-36V Input
DC12V Output
Out
PS3-001
PS3-002
RPI1
Ethernet
USB 2x
USB 2x
Raspberry Pi 4
4Gb
HDMI
HDMI
Power
Fan
ENC1-001
ENC2-001
ENC3-001
ENC4-001
ENB IN4 IN3 IN2 IN1 ENA
+5V GND +12V
OUT3
OUT4
OUT1
OUT2
L298N
MD1
MD2
MD3
MD4
MD1-001
MD1-002
MD2-001
MD2-002
MD3-001
MD3-002
MD4-001
MD4-002
M1
M2
M3
M4

Micro Controller








13
14
15
16
17
18
19
20
21
22
23
A14/ DAC
PRG
GND
3.3V
VBat
12
11
10
9
8
7
6
5
4
3
2
1
0
GND
PB
Teensy 3.2
TY1
3.3V (250mA max)
AGND
Vin (3.6-6V DC)
USB
TY1-USB
LIDAR1
Slamtec RPLIDAR A1
LIDAR1-USB
Ethernet
USB 2x
USB 2x
40 39
38 37
36 35
34 33
32 31
30 29
28 27
26 25
24 23
22 21
20 19
18 17
16 15
14 13
12 11
10 9
8 7
6 5
4 3
2 1
RPI1
Raspberry Pi 4 4Gb
HDMI
HDMI
Power
USB