BatteryGND1 → GND
BatteryVCC1 → +9V

MP1
5V

GND	1 IN−	OUT− 3	GND
+9V	2 IN+	OUT+ 4	+5V

MP2
3.3V

GND	1 IN−	OUT− 3	GND
+9V	2 IN+	OUT+ 4	+3.3V

GND

Decoupling_Capacitor1
100nF

ESP-12S1

EnablePullUp1
10k

+3.3V — 3 EN
+3.3V — 1 RST
10k
RSTPullUp1 — 16 TXD0
OffSwitchConn1 → 15 RXD0
OffSwitchConn2 → GND
2 ADC

VCC 8 +3.3V
IO0 12
IO2 11
IO4 13
IO5 14
IO12 6
IO13 7
IO14 5
IO15 10
IO16 4

EXP 17
GND 9 → GND

ReedSwitchPullDown1
10k
GND

+3.3V

ReedSwitchConn2
ReedSwitchConn1

GND ← OledGND1
+3.3V ← OledVCC1
OledSDA1
OledSCL1

SDAPullUp1
4.7k → +3.3V
SCLPullUp1
4.7k → +3.3V

GND ← 1 GND
+3.3V ← 2 VCC
3 SDA
4 SCL

PN542

TopBtnConn1
MiddleBtnConn1
BottomBtnConn1

TopBtnConn2 → GND
MiddleBtnConn2 → GND
BottomBtnConn2 → GND

TopBtnPullUp1 10k
MiddleBtnPullUp1 10k
BottomBtnPullUp1 10k

+3.3V +3.3V +3.3V

GPIO15PullDown1
10k
GND

GND ← 1 GND
+5V ← 2 VCC
3 MISO
4 MOSI
5 SCK
6 CS

SDCard1

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ReaperBoard-Lite
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