WiFi

RED
LED1
R1 1K
GPIO0
3.3V
R2 10K
RESET
3.3V
R3 10K
GPIO2
3.3V
R4 10K
CH_PD
3.3V
R5 10K
GPIO15
GND
3.3V
C2 10uF
GND

LDO

5V
IC1
VIN VOUT 5
EN NC/ADJ 4
GND
AP2112K-3.3TRG1 3.3V
3.3V
1uF C4
1uF C7
GND

OLED

3.3V
1
2
SCK 3
SDA 4
OLED
GND

RESET CIRCUIT

RESET
Q3 BC817
12K R7
DTR
BC817 Q2
12K R8
RTS
GPIO0

GPIO0
SW1 KMR2
A B A' B'
GND

RESET
SW2 KMR2
A B A' B'
GND

5V
10uF 10V C1
GND

3.3V
10uF 10V C3
GND

I/O

JP1
5V
6
5 ADC
4 GPIO16
3 GPIO13
2 GPIO5
1
EXP1

JP2
3.3V
6
5 GPIO4
4 GPIO2
3 GPIO15
2 SCK
1 SDA
EXP2
GND

BUZZER

3.3V
SG1
GPIO16 R6 10K
Q1 MMBT2222A
GND

3.3V
ESP12
RESET 1 RESET TXD 16 TXD
ADC 2 ADC RXD 15 RXD
CH_PD 3 CH_PD GPIO5 14 GPIO5
GPIO16 4 GPIO16 GPIO4 13 GPIO4
SCK 5 GPIO14 GPIO0 12 GPIO0
SDA 6 GPIO12 GPIO2 11 GPIO2
GPIO13 7 GPIO13 GPIO15 10 GPIO15
8 VCC GND 9
GND

USB

3.3V
XI XO
12MH X2
22pF C5
22pF C6
GND

U1 CH340T
1 CKONOS# 20
2 ACT# VCC 19
RXD 3 TXD R232 18
TXD 4 RXD NC 17
5 V3 RTS# 16 RTS
D+ 6 UD+ DTR# 15 DTR
D- 7 UD- DCD# 14
8 GND RI# 13
XI 9 XI DSR# 12
XO 10 XO CTS# 11
GND

3.3V
100nF C14
GND

3.3V
JP3
GND GND1
ID ID1
D+ D+1
D- D-1
VCC VBUS1
SHIELD
F1 PTCSMD
5V
D+
D-
GND

Mi2_v2
23/10/15 09:27
Sheet: 1/1

24/10/15 16:32 /Users/albertopiganti/Documents/bq/Projects/Mi2/Mi2_v2.sch (Sheet: 1/1)