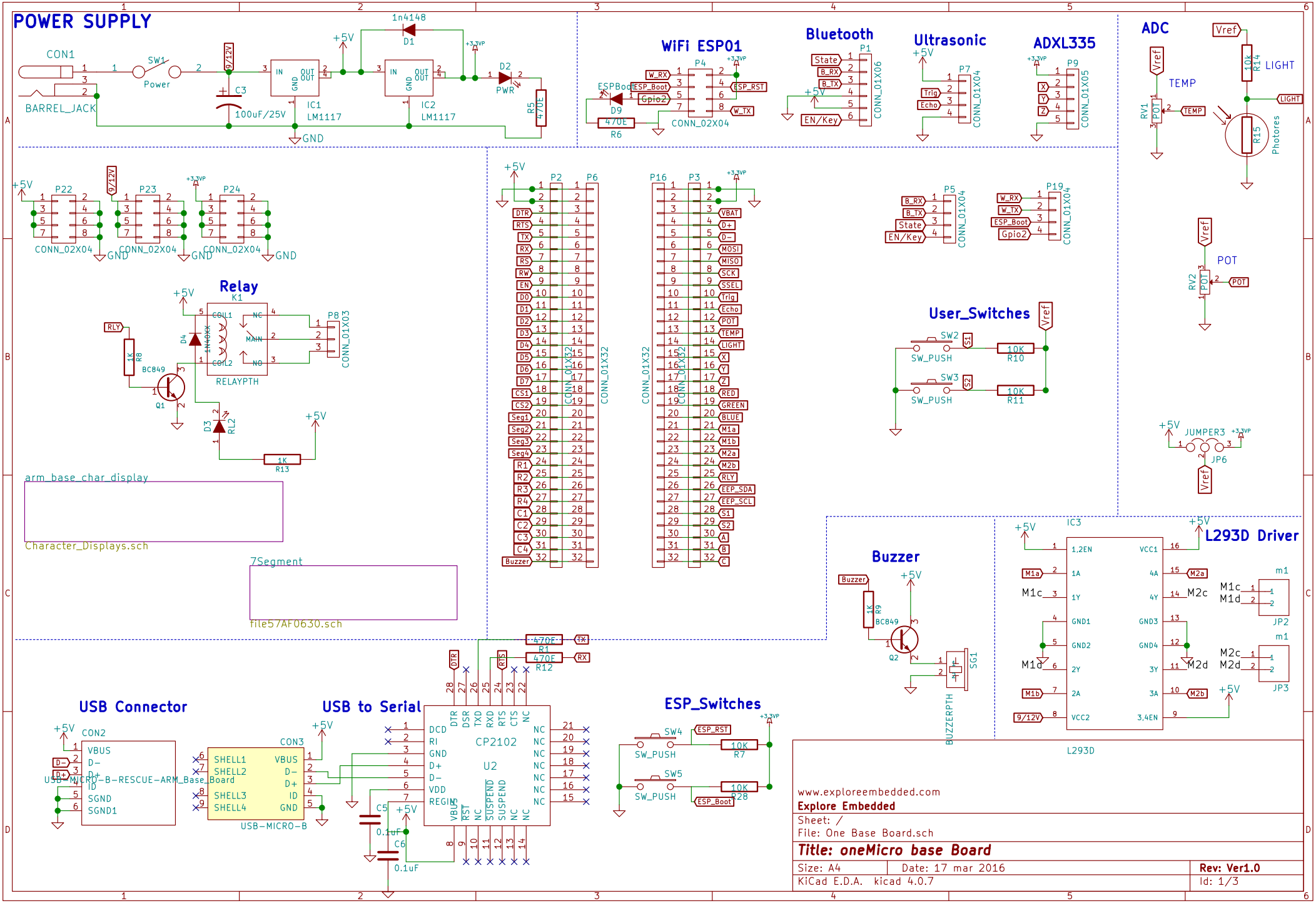
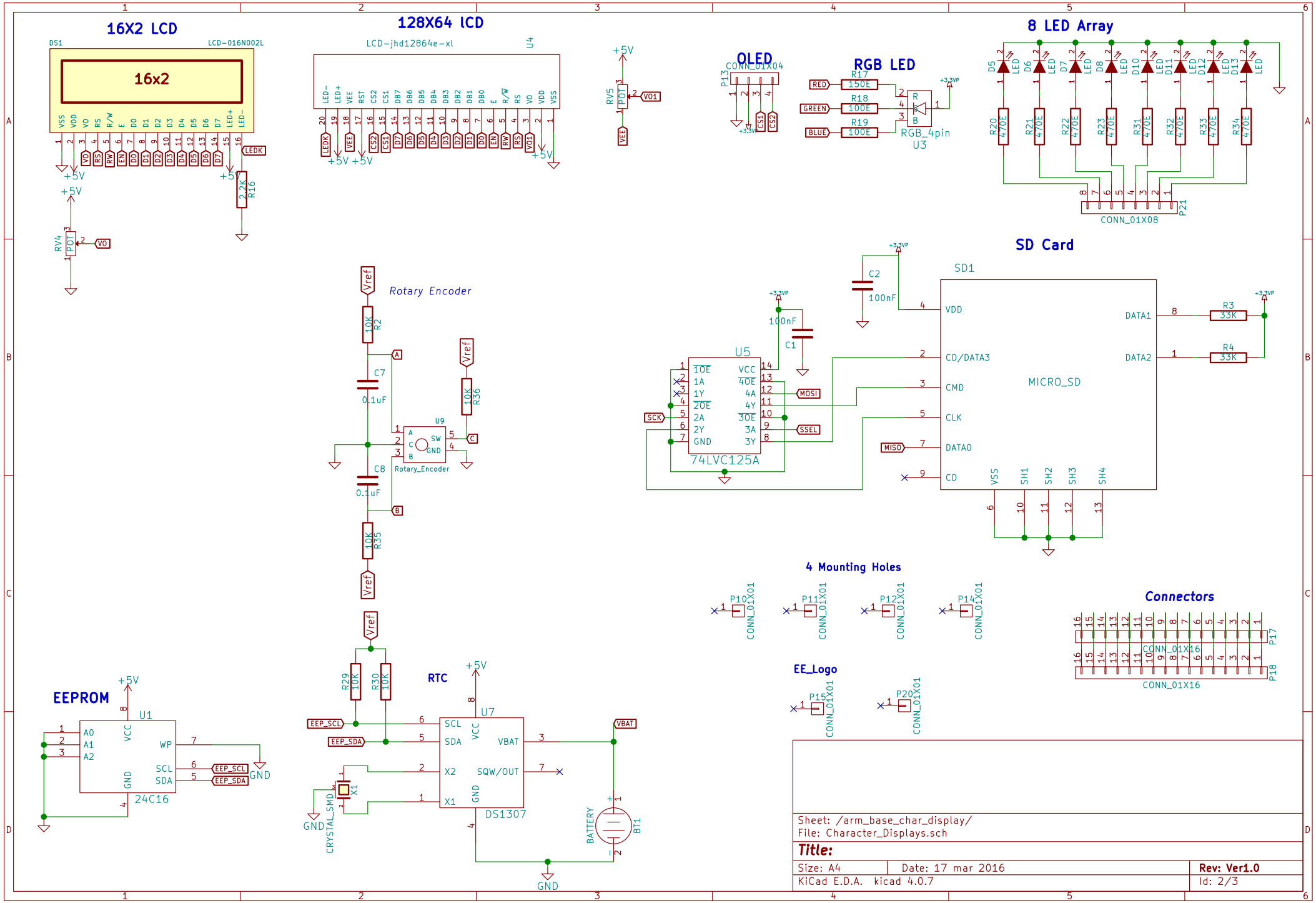
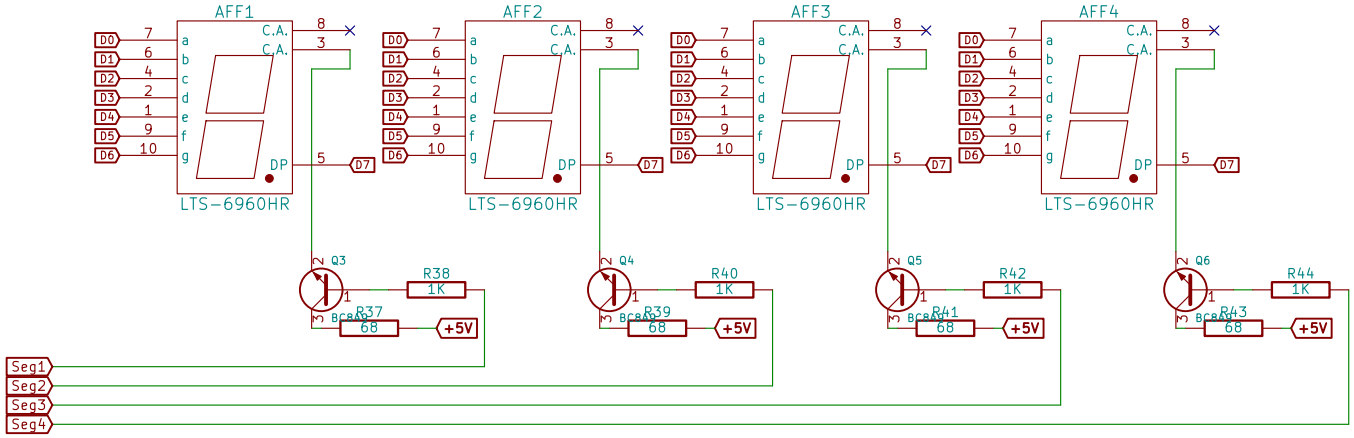
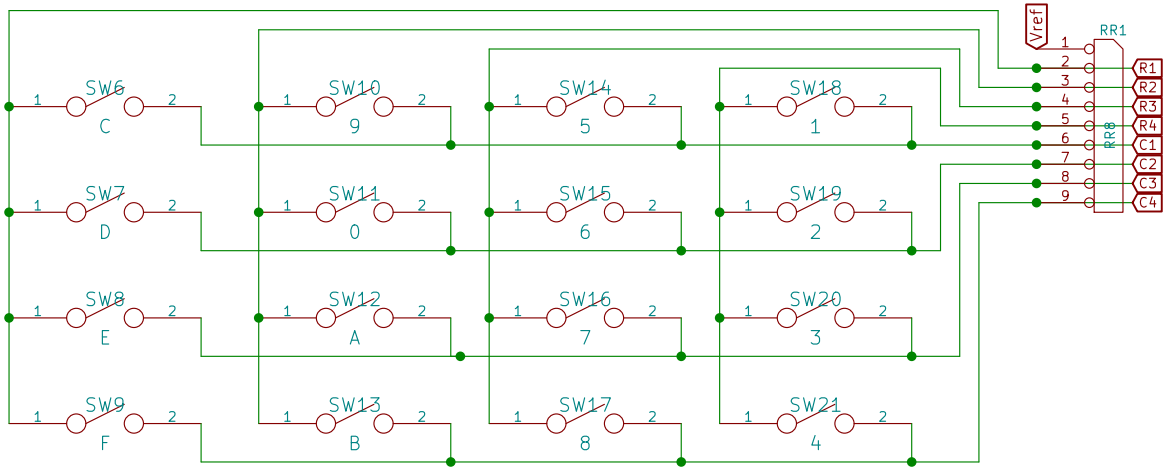

POWER SUPPLY
CON1
BARREL_JACK
SW1
Power
9/12V
C3
100uF/25V
IC1
LM1117
IC2
LM1117
GND
+5V
+3.3VP
1n4148
D1
D2
PWR
R5
470E
WiFi ESP01
P4
W_RX
ESP_Boot
Gpio2
ESP_RST
W_TX
CONN_02X04
ESPBoot
D9
470E
R6
Bluetooth
P1
State
B_RX
B_TX
EN/Key
CONN_01X06
Ultrasonic
P7
Trig
Echo
CONN_01X04
ADXL335
P9
X
Y
Z
CONN_01X05
ADC
Vref
TEMP
RV1
POT
LIGHT
10k
R14
R15
Photores
P22
P23
P24
CONN_02X04
Relay
K1
COIL1
COIL2
NC
MAIN
NO
1N4004
D4
RLY
1K
R8
BC849
Q1
D3
RL2
1K
R13
P8
CONN_01X03
arm_base_char_display
Character_Displays.sch
7Segment
file57AF0630.sch
P2
P6
P16
P3
CONN_01X32
DTR
RTS
TX
RX
RS
RW
EN
D0
D1
D2
D3
D4
D5
D6
D7
CS1
CS2
Seg1
Seg2
Seg3
Seg4
R1
R2
R3
R4
C1
C2
C3
C4
Buzzer
VBAT
D+
D-
MOSI
MISO
SCK
SSEL
Trig
Echo
POT
TEMP
LIGHT
X
Y
Z
RED
GREEN
BLUE
M1a
M1b
M2a
M2b
RLY
EEP_SDA
EEP_SCL
S1
S2
A
B
C
P5
P19
User_Switches
SW2
SW3
SW_PUSH
S1
S2
10K
R10
R11
JUMPER3
JP6
Buzzer
R9
BC849
Q2
SG1
BUZZERPTH
IC3
L293D
L293D Driver
1,2EN
1A
1Y
GND1
GND2
2Y
2A
VCC2
VCC1
4A
4Y
GND3
GND4
3Y
3A
3,4EN
M1a
M1c
M1d
M2a
M2c
M2d
M1b
9/12V
m1
JP2
JP3
USB Connector
CON2
VBUS
D-
D+
ID
SGND
SGND1
USB-MICRO-B-RESCUE-ARM_Base_Board
CON3
SHELL1
SHELL2
SHELL3
SHELL4
USB-MICRO-B
USB to Serial
CP2102
U2
DCD
RI
GND
D+
D-
VDD
REGIN
VBUS
RST
SUSPEND
NC
DTR
DSR
TXD
RXD
RTS
CTS
470E
R1
R12
C5
C6
0.1uF
ESP_Switches
SW4
SW5
R7
R28
ESP_RST
ESP_Boot
www.exploreembedded.com
Explore Embedded
Sheet: /
File: One Base Board.sch
Title: oneMicro base Board
Size: A4
Date: 17 mar 2016
Rev: Ver1.0
KiCad E.D.A. kicad 4.0.7
Id: 1/3


16X2 LCD
DS1
LCD-016N002L
16x2
VSS VDD VO RS R/W E D0 D1 D2 D3 D4 D5 D6 D7 LED+ LED-
LEDK
+5V
2.2K R16
RV4 POT
128X64 LCD
LCD-jhd12864e-xl
U4
LED- LED+ VEE RST CS2 CS1 DB7 DB6 DB5 DB4 DB3 DB2 DB1 DB0 E R/W RS VO VDD VSS
LEDK VEE CS2 CS1
RV5 POT
VO1
VEE
OLED
CONN_01X04
P13
CS1 CS2
RGB LED
RED
GREEN
BLUE
R17 150E
R18 100E
R19 100E
RGB_4pin
U3
8 LED Array
D5 D6 D7 D8 D10 D11 D12 D13
R20 470E
R21 470E
R22 470E
R23 470E
R31 470E
R32 470E
R33 470E
R34 470E
CONN_01X08
P21
SD Card
SD1
MICRO_SD
VDD
CD/DATA3
CMD
CLK
DATA0
CD
DATA1
DATA2
VSS SH1 SH2 SH3 SH4
R3 33K
R4 33K
C2 100nF
C1 100nF
U5
74LVC125A
SCK
MOSI
SSEL
MISO
Rotary Encoder
Vref
R2 10K
C7 0.1uF
C8 0.1uF
R35 10K
R36 10K
U9
Rotary_Encoder
A B C SW GND
4 Mounting Holes
P10 P11 P12 P14
CONN_01X01
Connectors
P17 P18
CONN_01X16
EE_Logo
P15 P20
EEPROM
U1
24C16
A0 A1 A2 VCC WP SCL SDA GND
EEP_SCL
EEP_SDA
GND
RTC
U7
DS1307
SCL SDA VCC VBAT X2 X1 SQW/OUT GND
R29 10K
R30 10K
X1
CRYSTAL_SMD
BATTERY
BT1
VBAT
Sheet: /arm_base_char_display/
File: Character_Displays.sch
Title:
Size: A4
Date: 17 mar 2016
Rev: Ver1.0
KiCad E.D.A. kicad 4.0.7
Id: 2/3

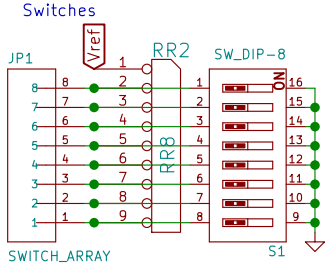
7Segments



4x4 Key Pad



Switches



Sheet: /7Segment/
File: file57AF0630.sch

Title:

Size: A4	Date: 28 jun 2015	**Rev:**
KiCad E.D.A. kicad 4.0.7		Id: 3/3