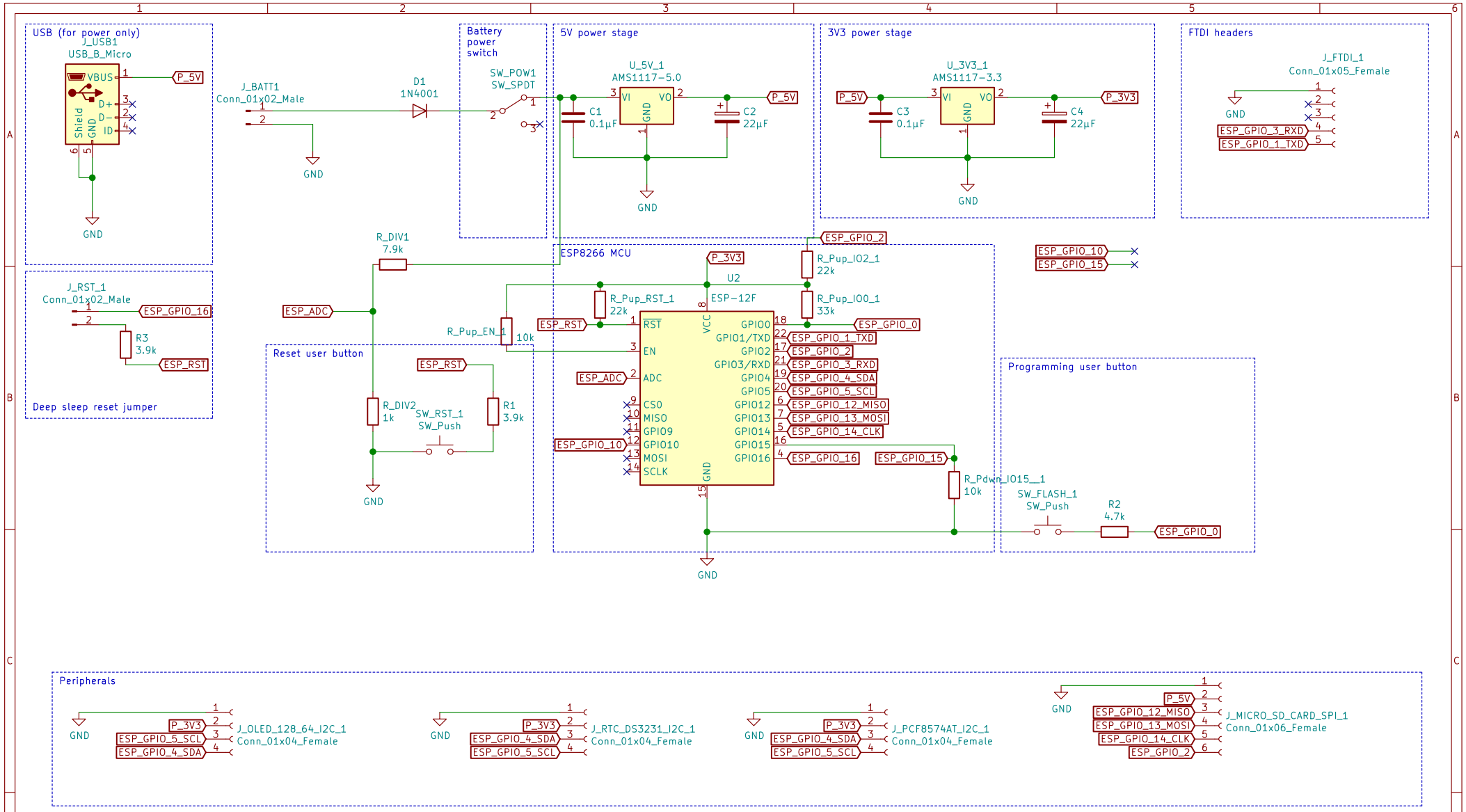
USB (for power only)
J_USB1
USB_B_Micro
VBUS
D+
D-
ID
Shield
GND
P_5V
J_BATT1
Conn_01x02_Male
D1
1N4001
Battery power switch
SW_POW1
SW_SPDT
5V power stage
U_5V_1
AMS1117-5.0
VI
VO
C1
0.1µF
C2
22µF
3V3 power stage
U_3V3_1
AMS1117-3.3
C3
0.1µF
C4
22µF
P_3V3
FTDI headers
J_FTDI_1
Conn_01x05_Female
ESP_GPIO_3_RXD
ESP_GPIO_1_TXD
J_RST_1
Conn_01x02_Male
ESP_GPIO_16
R3
3.9k
ESP_RST
Deep sleep reset jumper
R_DIV1
7.9k
ESP_ADC
R_DIV2
1k
R_Pup_EN_1
10k
Reset user button
SW_RST_1
SW_Push
R1
3.9k
ESP8266 MCU
U2
ESP-12F
R_Pup_RST_1
22k
R_Pup_IO2_1
22k
R_Pup_IO0_1
33k
RST
EN
ADC
CS0
MISO
GPIO9
GPIO10
MOSI
SCLK
VCC
GND
GPIO0
GPIO1/TXD
GPIO2
GPIO3/RXD
GPIO4
GPIO5
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
ESP_GPIO_0
ESP_GPIO_1_TXD
ESP_GPIO_2
ESP_GPIO_3_RXD
ESP_GPIO_4_SDA
ESP_GPIO_5_SCL
ESP_GPIO_12_MISO
ESP_GPIO_13_MOSI
ESP_GPIO_14_CLK
ESP_GPIO_15
ESP_GPIO_10
R_Pdwn_IO15__1
10k
Programming user button
SW_FLASH_1
SW_Push
R2
4.7k
Peripherals
J_OLED_128_64_I2C_1
Conn_01x04_Female
J_RTC_DS3231_I2C_1
Conn_01x04_Female
J_PCF8574AT_I2C_1
Conn_01x04_Female
J_MICRO_SD_CARD_SPI_1
Conn_01x06_Female
ESP_GPIO_10 can only be used in DIO mode /!\
Voltage divider for ADC R_DIV1 7.9k for 1mA R_DIV2 1k for 1V out @ 7.9V in
Added missing GPIO_15 label
www.web-directories.tk
Sheet: /
File: ESP8266_swiss_army_board.sch
Title: ESP8266_swiss_army_board
Size: A4
Date: 2019-10-21
Rev: 1.3
KiCad E.D.A. kicad (5.1.4)-1
Id: 1/1