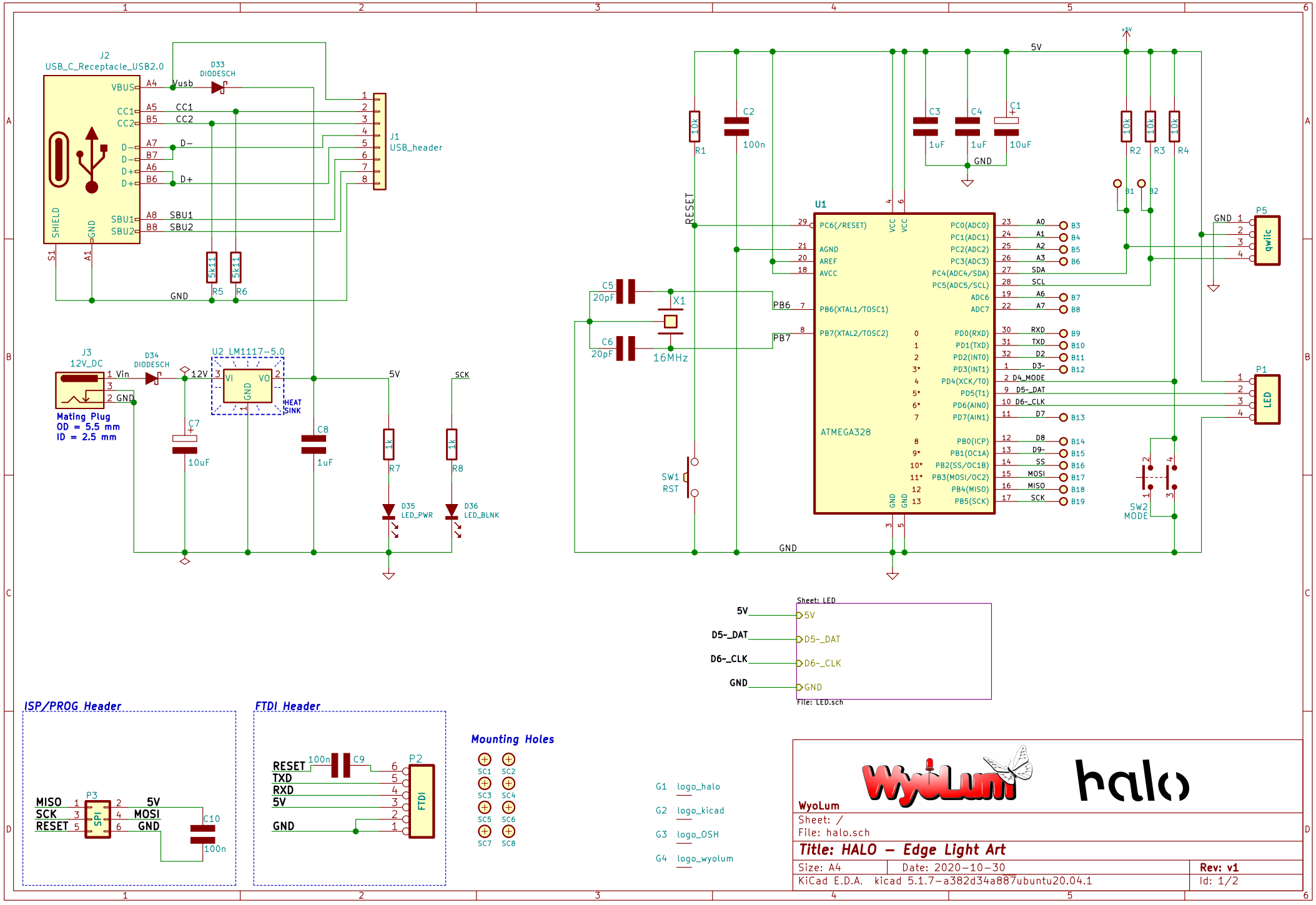
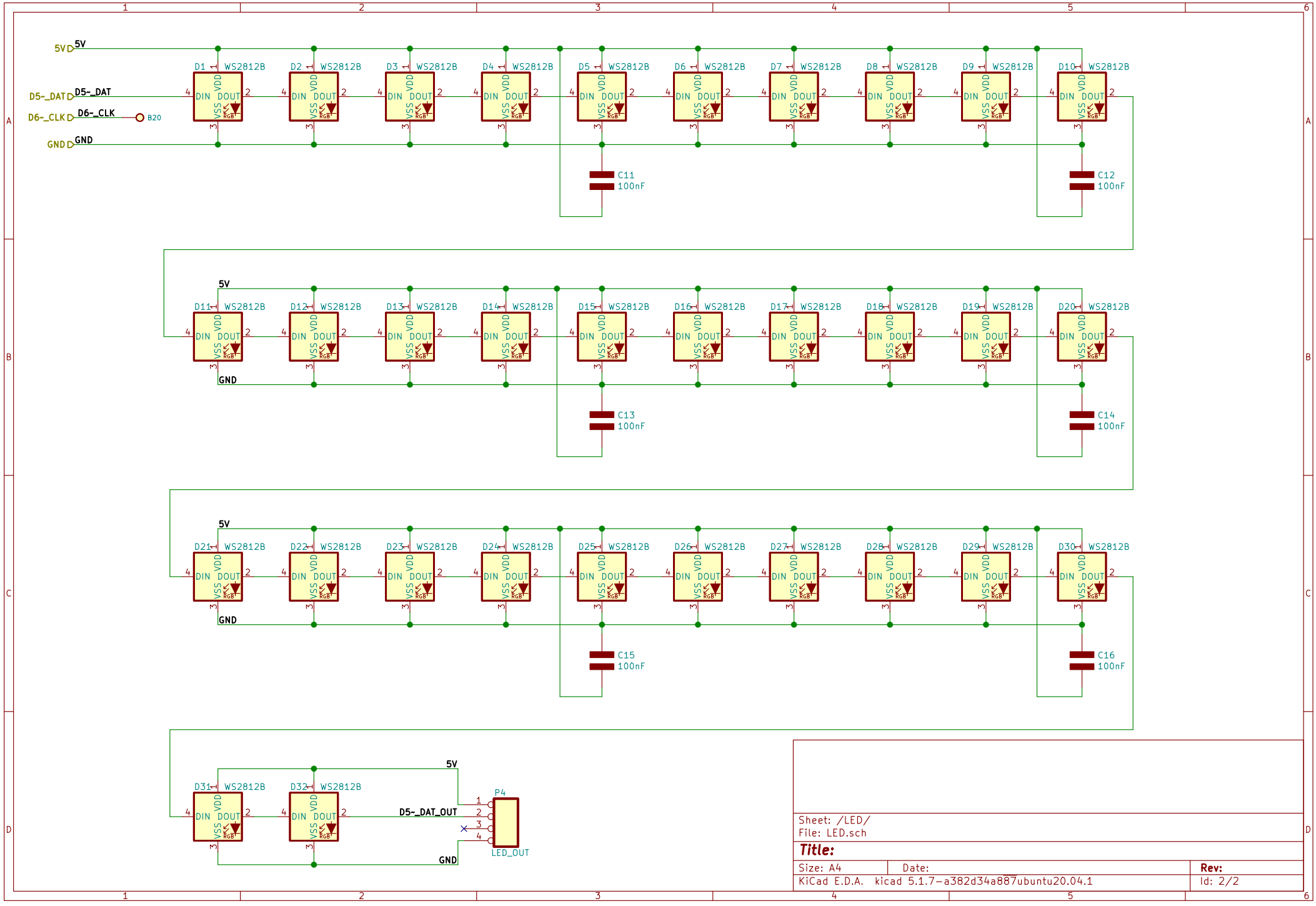

J2
USB_C_Receptacle_USB2.0
D33
DIODESCH
VBUS
CC1
CC2
D-
D-
D+
D+
SHIELD
GND
SBU1
SBU2
Vusb
CC1
CC2
D-
D+
SBU1
SBU2
J1
USB_header
5k11
R5
5k11
R6
GND
J3
12V_DC
Vin
GND
Mating Plug
OD = 5.5 mm
ID = 2.5 mm
D34
DIODESCH
12V
U2 LM1117-5.0
VI
VO
GND
HEAT SINK
C7
10uF
C8
1uF
5V
SCK
1k
R7
1k
R8
D35
LED_PWR
D36
LED_BLNK
10k
R1
C2
100n
RESET
C3
1uF
C4
1uF
C1
10uF
GND
10k
R2
10k
R3
10k
R4
B1
B2
U1
PC6(/RESET)
AGND
AREF
AVCC
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
ATMEGA328
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
ADC6
ADC7
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
A0
A1
A2
A3
SDA
SCL
A6
A7
RXD
TXD
D2
D3~
D4_MODE
D5~_DAT
D6~_CLK
D7
D8
D9~
SS
MOSI
MISO
SCK
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
B16
B17
B18
B19
C5
20pF
C6
20pF
X1
16MHz
PB6
PB7
SW1
RST
SW2
MODE
P5
qwiic
P1
LED
Sheet: LED
5V
D5~_DAT
D6~_CLK
GND
File: LED.sch
ISP/PROG Header
P3
SPI
MISO
SCK
RESET
5V
MOSI
GND
C10
100n
FTDI Header
P2
FTDI
RESET
TXD
RXD
5V
GND
100n
C9
Mounting Holes
SC1
SC2
SC3
SC4
SC5
SC6
SC7
SC8
G1 logo_halo
G2 logo_kicad
G3 logo_OSH
G4 logo_wyolum
WyoLum
halo
Sheet: /
File: halo.sch
Title: HALO – Edge Light Art
Size: A4
Date: 2020-10-30
Rev: v1
KiCad E.D.A. kicad 5.1.7-a382d34a887ubuntu20.04.1
Id: 1/2


5V
D5~_DAT
D6~_CLK
GND
B20
D1 WS2812B
D2 WS2812B
D3 WS2812B
D4 WS2812B
D5 WS2812B
D6 WS2812B
D7 WS2812B
D8 WS2812B
D9 WS2812B
D10 WS2812B
C11 100nF
C12 100nF
D11 WS2812B
D12 WS2812B
D13 WS2812B
D14 WS2812B
D15 WS2812B
D16 WS2812B
D17 WS2812B
D18 WS2812B
D19 WS2812B
D20 WS2812B
C13 100nF
C14 100nF
D21 WS2812B
D22 WS2812B
D23 WS2812B
D24 WS2812B
D25 WS2812B
D26 WS2812B
D27 WS2812B
D28 WS2812B
D29 WS2812B
D30 WS2812B
C15 100nF
C16 100nF
D31 WS2812B
D32 WS2812B
D5~_DAT_OUT
P4
LED_OUT
Sheet: /LED/
File: LED.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 5.1.7-a382d34a887ubuntu20.04.1
Id: 2/2