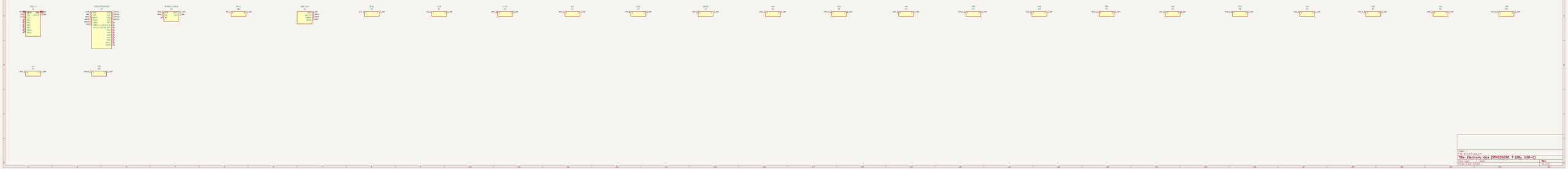

USB-C
J1
VBUS
CC1
CC2
DP1
DP2
DN1
DN2
SBU1
SBU2
GND
SHIELD
A5
B5
A6
B6
A7
B7
A8
B8
SH
GND
GND
STM32G030F6P6
U1
+3V3
GND
NRST
SWDIO
SWCLK
BTN
VDD
VSS
NRST
PA13
PA14
PB6
PA0
PA1
PA2
PA3
PB7
PC14-OSC32_IN
PC15-OSC32_OUT
PA4
PA5
PA6
PA7
PB0
PA11
PA12
GPIO_C
GPIO_A
GPIO_B
GPIO_S
RT9013-33GB
U2
VBUS
VBUS
VIN
EN
NC
VOUT
GND
+3V3
GND
ROLL
SW1
BTN
A
B
GND
SWD 1x4
J2
GND
SWCLK
SWDIO
NRST
5.1k
R1
CC1
GND
5.1k
R2
CC2
GND
4.7uF
C1
VBUS
GND
1uF
C2
VBUS
GND
10uF
C3
+3V3
GND
100nF
C5
+3V3
GND
red
D1
LED1
GND
330
R3
GPIO_A
LED1
red
D2
LED2
GND
330
R4
GPIO_B
LED2
red
D3
LED3
GND
330
R5
GPIO_S
LED3
red
D4
LED4
GND
330
R6
GPIO_C
LED4
red
D5
LED5
GND
330
R7
GPIO_S
LED5
red
D6
LED6
GND
330
R8
GPIO_B
LED6
red
D7
LED7
GND
330
R9
GPIO_A
LED7

Sheet: /
File: board.kicad_sch

Title: Electronic dice (STM32G030, 7 LEDs, USB-C)

Size: User
Date:
Rev:
KiCad E.D.A. 10.0.6
Id: 1/1