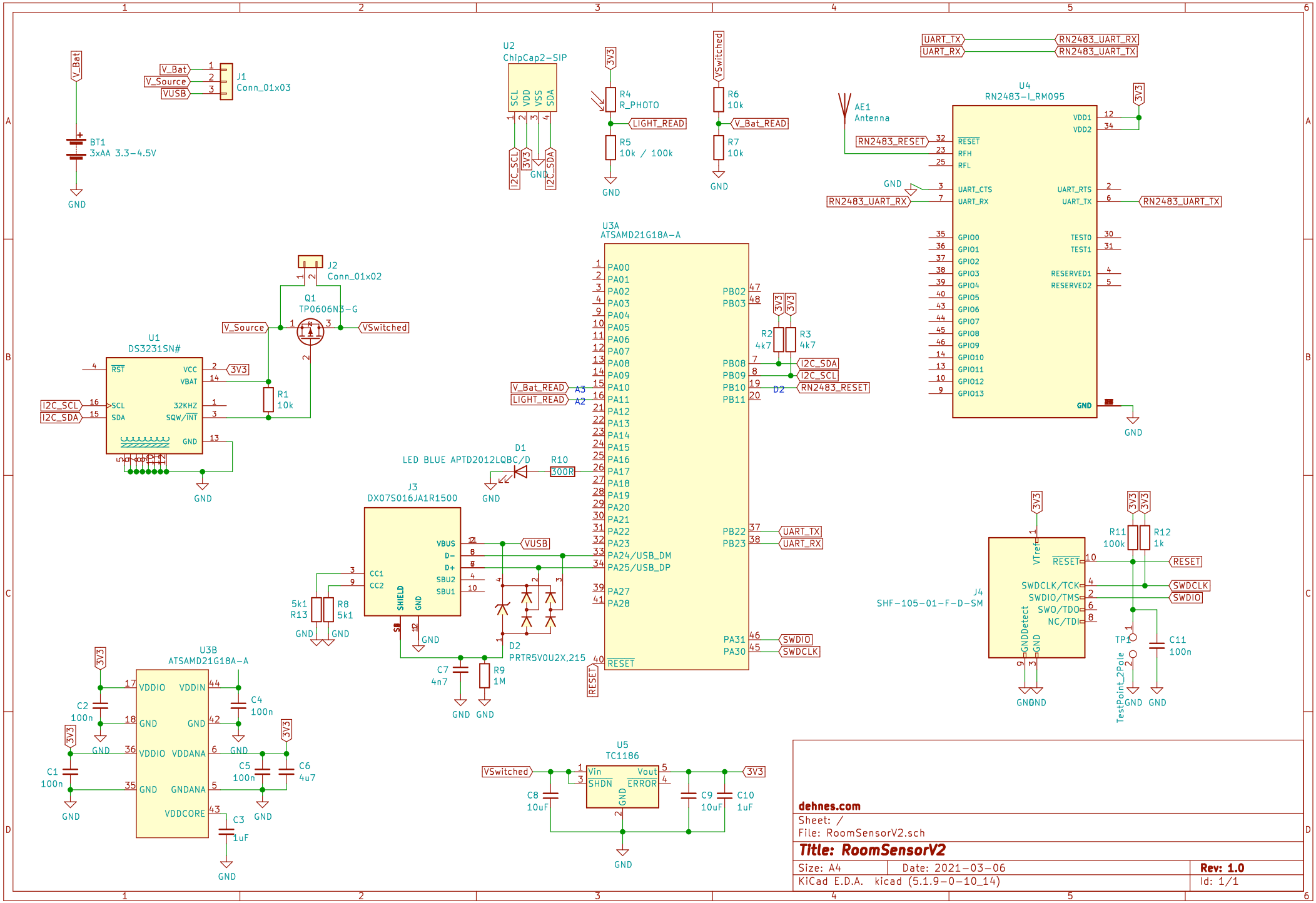
V_Bat
BT1
3xAA 3.3-4.5V
GND
V_Bat
V_Source
VUSB
J1
Conn_01x03
U2
ChipCap2-SIP
SCL
VDD
VSS
SDA
I2C_SCL
3V3
I2C_SDA
3V3
R4
R_PHOTO
LIGHT_READ
R5
10k / 100k
VSwitched
R6
10k
V_Bat_READ
R7
10k
UART_TX
UART_RX
RN2483_UART_RX
RN2483_UART_TX
AE1
Antenna
U4
RN2483-I_RM095
RN2483_RESET
RESET
RFH
RFL
UART_CTS
UART_RX
UART_RTS
UART_TX
VDD1
VDD2
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
TEST0
TEST1
RESERVED1
RESERVED2
GND
J2
Conn_01x02
Q1
TP0606N3-G
V_Source
VSwitched
U1
DS3231SN#
RST
VCC
VBAT
SCL
SDA
32KHZ
SQW/INT
GND
3V3
R1
10k
I2C_SCL
I2C_SDA
U3A
ATSAMD21G18A-A
PA00
PA01
PA02
PA03
PA04
PA05
PA06
PA07
PA08
PA09
PA10
PA11
PA12
PA13
PA14
PA15
PA16
PA17
PA18
PA19
PA20
PA21
PA22
PA23
PA24/USB_DM
PA25/USB_DP
PA27
PA28
RESET
PB02
PB03
PB08
PB09
PB10
PB11
PB22
PB23
PA31
PA30
R2
4k7
R3
4k7
V_Bat_READ
LIGHT_READ
A3
A2
D2
D1
LED BLUE APTD2012LQBC/D
R10
300R
J3
DX07S016JA1R1500
VBUS
D-
D+
SBU2
SBU1
CC1
CC2
SHIELD
GND
VUSB
5k1
R13
R8
5k1
D2
PRTR5V0U2X,215
C7
4n7
R9
1M
SWDIO
SWDCLK
J4
SHF-105-01-F-D-SM
VTref
RESET
SWDCLK/TCK
SWDIO/TMS
SWO/TDO
NC/TDI
GNDDetect
R11
100k
R12
1k
TP1
TestPoint_2Pole
C11
100n
U3B
ATSAMD21G18A-A
VDDIO
VDDIN
GND
VDDANA
GNDANA
VDDCORE
C1
100n
C2
100n
C3
1uF
C4
100n
C5
100n
C6
4u7
U5
TC1186
Vin
Vout
SHDN
ERROR
C8
10uF
C9
10uF
C10
1uF
dehnes.com
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Size: A4
Date: 2021-03-06
Rev: 1.0
KiCad E.D.A. kicad (5.1.9-0-10_14)
Id: 1/1