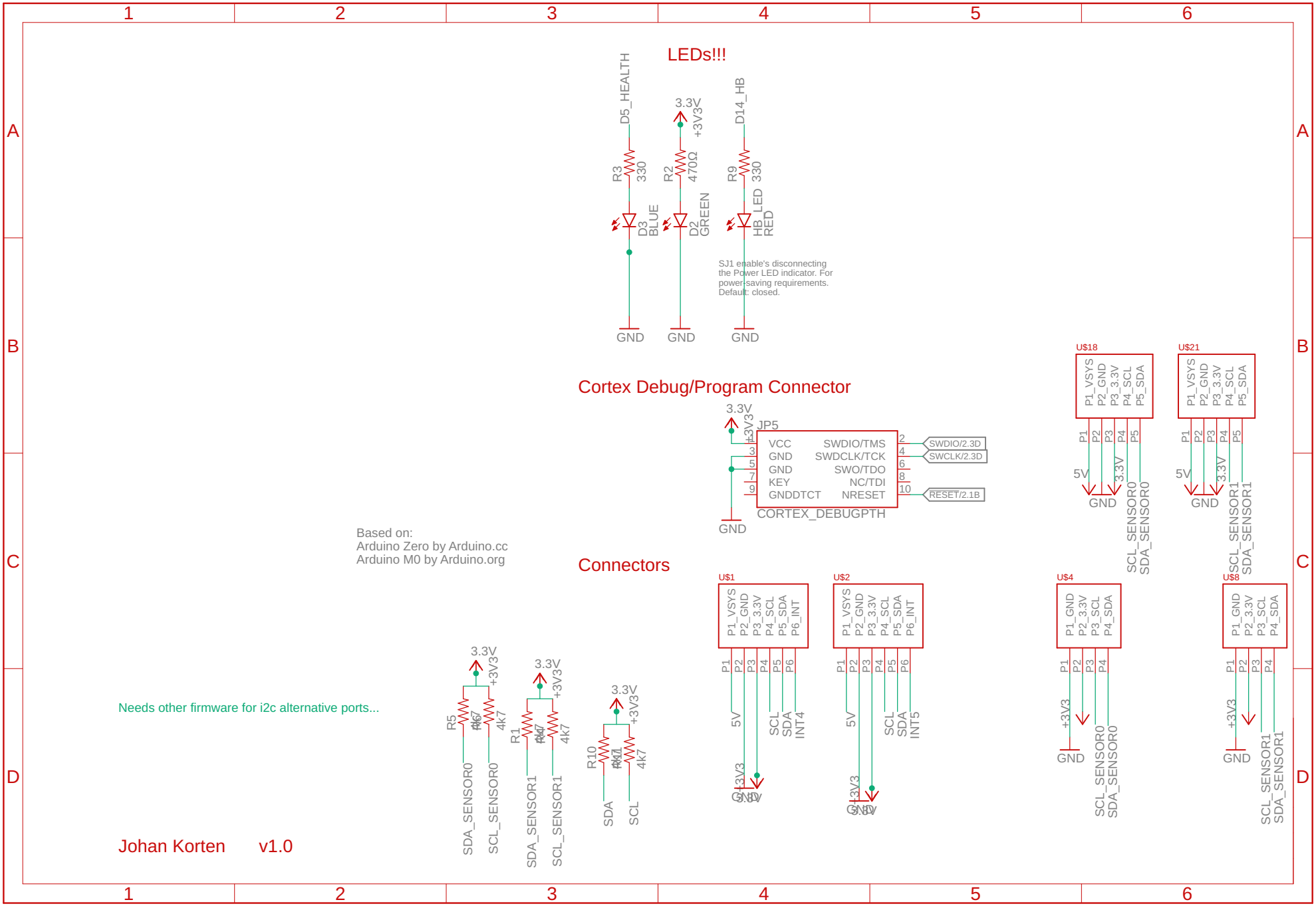
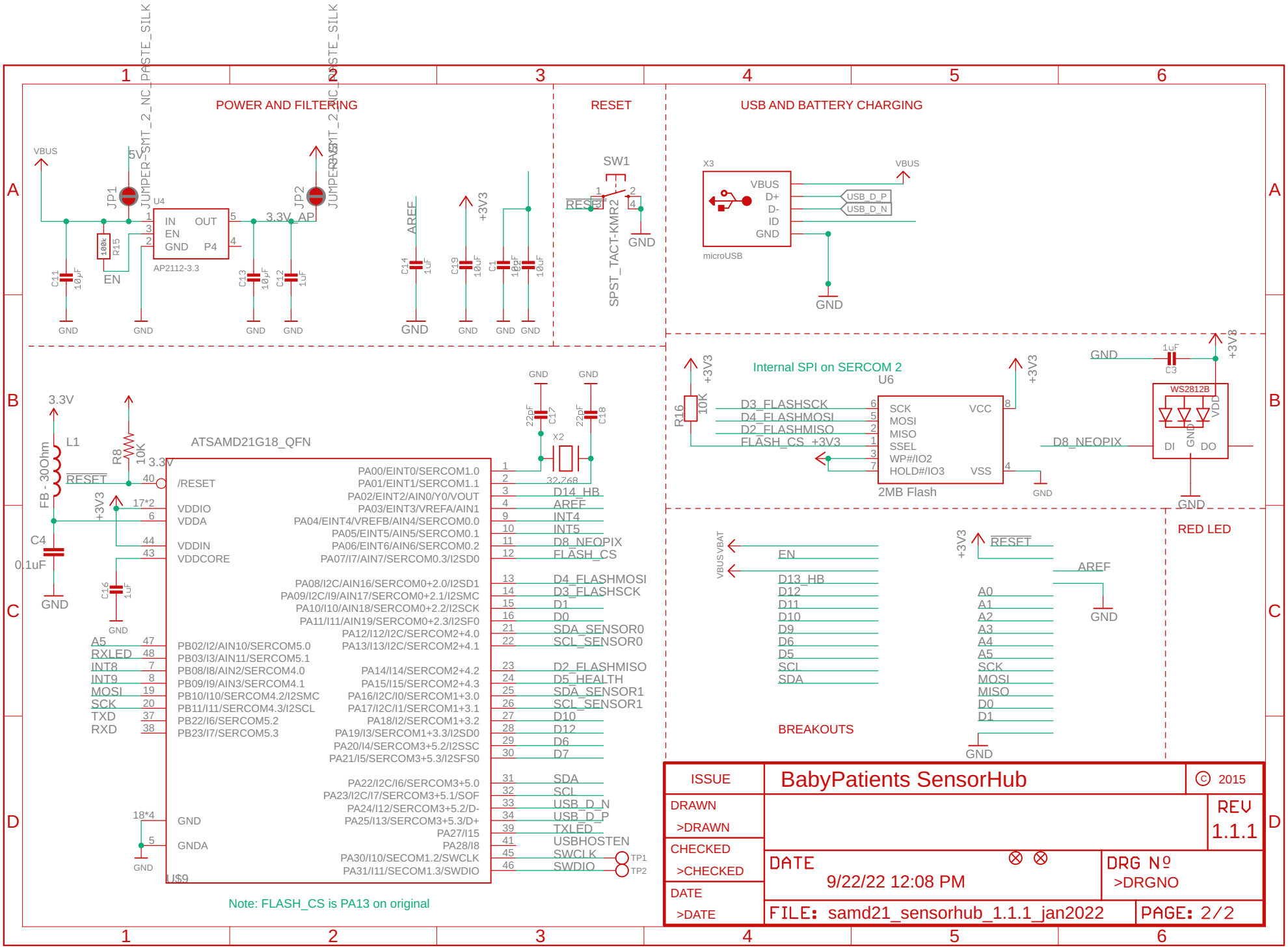

LEDs!!!
D5_HEALTH
R3
330
D3
BLUE
3.3V
+3V3
R2
470Ω
D2
GREEN
D14_HB
R9
330
HB_LED
RED
SJ1 enable's disconnecting the Power LED indicator. For power-saving requirements. Default: closed.
GND
Cortex Debug/Program Connector
JP5
VCC
GND
GND
KEY
GNDDTCT
SWDIO/TMS
SWDCLK/TCK
SWO/TDO
NC/TDI
NRESET
SWDIO/2.3D
SWCLK/2.3D
RESET/2.1B
CORTEX_DEBUGPTH
Based on:
Arduino Zero by Arduino.cc
Arduino M0 by Arduino.org
Connectors
U$18
U$21
P1_VSYS
P2_GND
P3_3.3V
P4_SCL
P5_SDA
5V
SCL_SENSOR0
SDA_SENSOR0
SCL_SENSOR1
SDA_SENSOR1
U$1
U$2
U$4
U$8
P6_INT
INT4
INT5
P1_GND
P2_3.3V
P3_SCL
P4_SDA
R5
R1
R10
4k7
SDA
SCL
Needs other firmware for i2c alternative ports...
Johan Korten
v1.0


POWER AND FILTERING
RESET
USB AND BATTERY CHARGING
VBUS
5V
JP1
JUMPER-SMT_2_NC_PASTE_SILK
U4
IN
OUT
EN
GND
P4
AP2112-3.3
3.3V_AP
JP2
JUMPER-SMT_2_NC_PASTE_SILK
R15
100k
EN
C11
10µF
C13
10µF
C12
1uF
GND
AREF
C14
1uF
+3V3
C19
10uF
C1
10uF
10uF
SW1
RESET
SPST_TACT-KMR2
X3
VBUS
D+
D-
ID
GND
USB_D_P
USB_D_N
microUSB
3.3V
L1
FB - 30Ohm
R8
10K
RESET
+3V3
C4
0.1uF
C16
1uF
ATSAMD21G18_QFN
/RESET
VDDIO
VDDA
VDDIN
VDDCORE
GND
GNDA
U$9
PA00/EINT0/SERCOM1.0
PA01/EINT1/SERCOM1.1
PA02/EINT2/AIN0/Y0/VOUT
PA03/EINT3/VREFA/AIN1
PA04/EINT4/VREFB/AIN4/SERCOM0.0
PA05/EINT5/AIN5/SERCOM0.1
PA06/EINT6/AIN6/SERCOM0.2
PA07/I7/AIN7/SERCOM0.3/I2SD0
PA08/I2C/AIN16/SERCOM0+2.0/I2SD1
PA09/I2C/I9/AIN17/SERCOM0+2.1/I2SMC
PA10/I10/AIN18/SERCOM0+2.2/I2SCK
PA11/I11/AIN19/SERCOM0+2.3/I2SF0
PA12/I12/I2C/SERCOM2+4.0
PA13/I13/I2C/SERCOM2+4.1
PA14/I14/SERCOM2+4.2
PA15/I15/SERCOM2+4.3
PA16/I2C/I0/SERCOM1+3.0
PA17/I2C/I1/SERCOM1+3.1
PA18/I2/SERCOM1+3.2
PA19/I3/SERCOM1+3.3/I2SD0
PA20/I4/SERCOM3+5.2/I2SSC
PA21/I5/SERCOM3+5.3/I2SFS0
PA22/I2C/I6/SERCOM3+5.0
PA23/I2C/I7/SERCOM3+5.1/SOF
PA24/I12/SERCOM3+5.2/D-
PA25/I13/SERCOM3+5.3/D+
PA27/I15
PA28/I8
PA30/I10/SECOM1.2/SWCLK
PA31/I11/SECOM1.3/SWDIO
PB02/I2/AIN10/SERCOM5.0
PB03/I3/AIN11/SERCOM5.1
PB08/I8/AIN2/SERCOM4.0
PB09/I9/AIN3/SERCOM4.1
PB10/I10/SERCOM4.2/I2SMC
PB11/I11/SERCOM4.3/I2SCL
PB22/I6/SERCOM5.2
PB23/I7/SERCOM5.3
A5
RXLED
INT8
INT9
MOSI
SCK
TXD
RXD
D14_HB
AREF
INT4
INT5
D8_NEOPIX
FLASH_CS
D4_FLASHMOSI
D3_FLASHSCK
D1
D0
SDA_SENSOR0
SCL_SENSOR0
D2_FLASHMISO
D5_HEALTH
SDA_SENSOR1
SCL_SENSOR1
D10
D12
D6
D7
SDA
SCL
USB_D_N
USB_D_P
TXLED
USBHOSTEN
SWCLK
SWDIO
TP1
TP2
X2
32.768
C17
22pF
C18
22pF
Note: FLASH_CS is PA13 on original
Internal SPI on SERCOM 2
U6
R16
10K
D3_FLASHSCK
D4_FLASHMOSI
D2_FLASHMISO
FLASH_CS
SCK
MOSI
MISO
SSEL
WP#/IO2
HOLD#/IO3
VCC
VSS
2MB Flash
D8_NEOPIX
WS2812B
DI
DO
VDD
C3
1uF
+3V3
RED LED
VBUS/VBAT
EN
D13_HB
D12
D11
D10
D9
D6
D5
SCL
SDA
RESET
AREF
A0
A1
A2
A3
A4
A5
SCK
MOSI
MISO
D0
D1
BREAKOUTS
ISSUE
BabyPatients SensorHub
© 2015
DRAWN
>DRAWN
CHECKED
>CHECKED
DATE
>DATE
REV
1.1.1
DATE
9/22/22 12:08 PM
DRG Nº
>DRGNO
FILE: samd21_sensorhub_1.1.1_jan2022
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