

Sheet: External Input

Estimated BOM cost: \$0.03

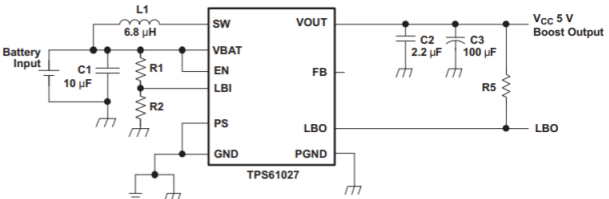


Alt Power Input

File: ExternalInput.sch

Sheet: Boost Converters

Estimated BOM cost: \$0.60



List of Components:  
U1 = TP561027DRC  
L1 = EPCOS B62462-G4682  
C1, C2 = X7R,X5R Ceramic  
C3 = Low ESR Tantalum

Figure 24. Power Supply Solution for Maximum Output Power Operating From a Single Alkaline Cell

Power Conversion


File: Boost.sch

Sheet: Sensors

File: Sensors.sch

Sheet: USB Input

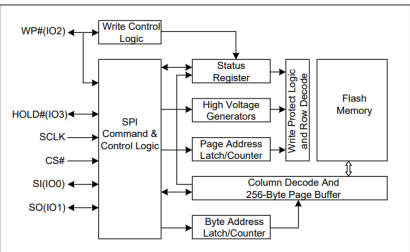
Estimated BOM cost: \$1.00  
(\$0.02 without serial to usb)



USB Input  
(Power/serial)

File: USB\_Input.sch

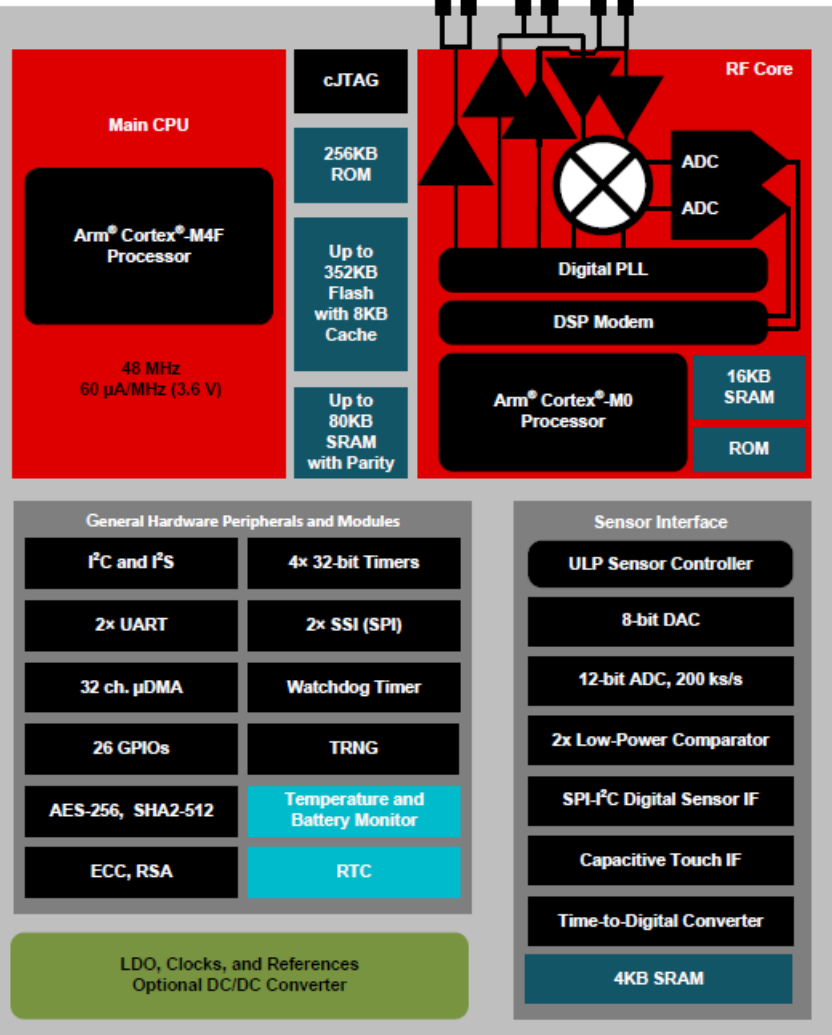
Sheet: SPI FLASH



File: SPI\_FLASH.sch

Sheet: RF

Estimated BOM cost: \$1.27

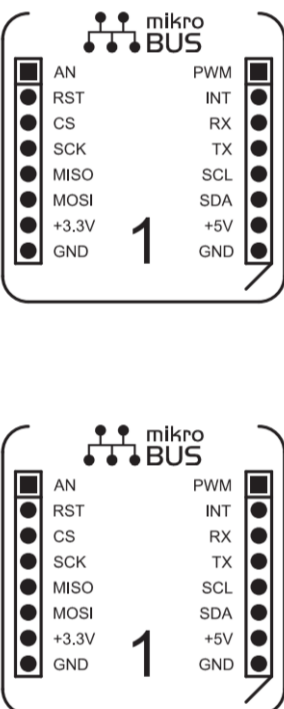


RF and Processor

File: RF.sch

Sheet: MikroBus Click

Estimated BOM cost: \$0.15




MikroBus Headers

File: MikroBusClick.sch

Sheet: Sheet50099F01

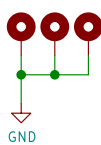
Estimated BOM cost: \$0.03



Indicators

File: Indicators.sch

H1 H2 H3



GND

Sheet: User Input/Output

Estimated BOM cost: \$0.05



User I/O

File: UserInputOutput.sch

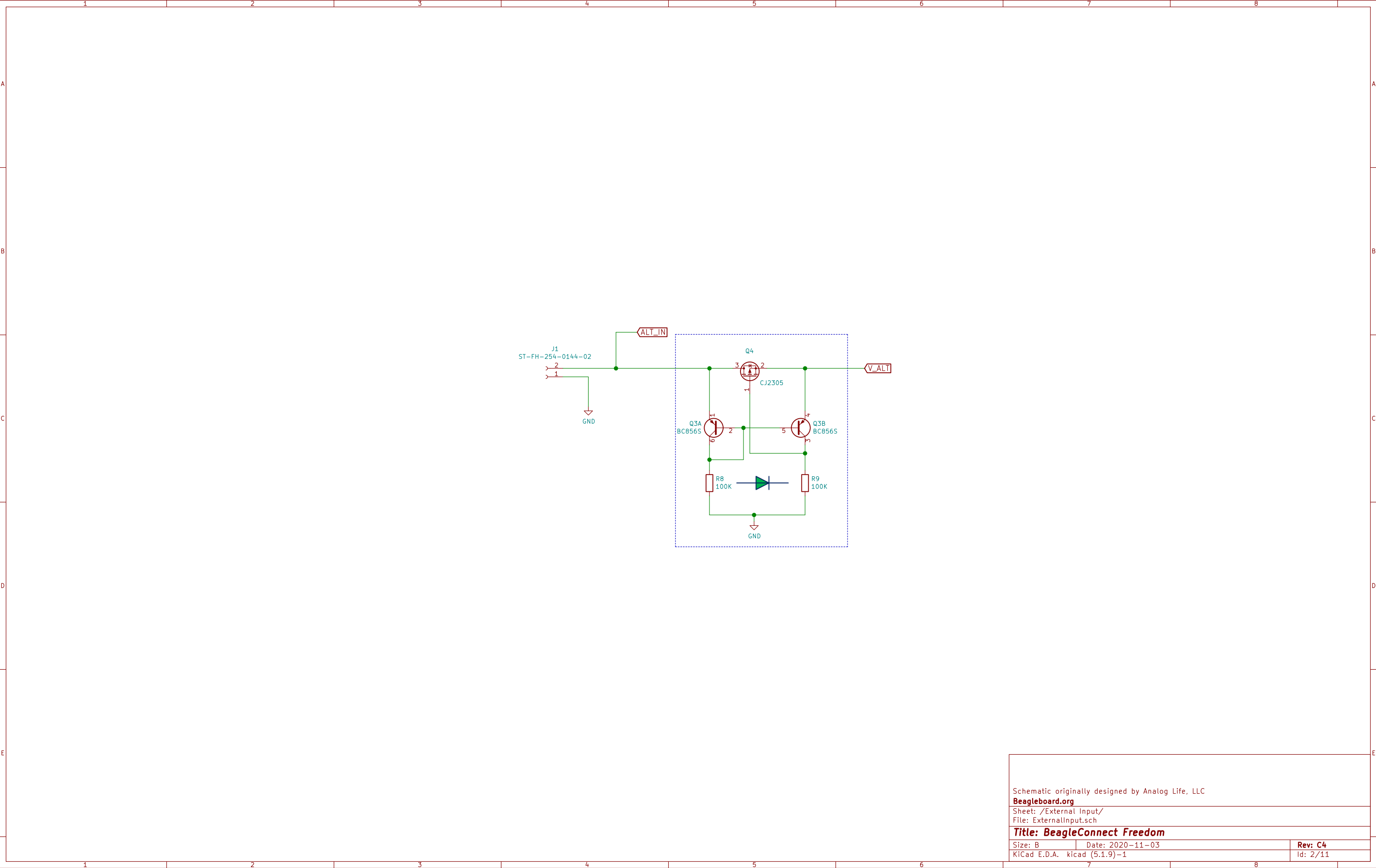
Sheet: Programming

Estimated BOM cost: \$0.00



Programming

File: Programming.sch



Schematic originally designed by Analog Life, LLC

**Beagleboard.org**

Sheet: /External Input/

File: ExternalInput.sch

**Title: BeagleConnect Freedom**

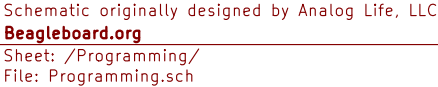
Size: B

Date: 2020-11-03

Rev: C4

KiCad E.D.A. kicad (5.1.9)-1

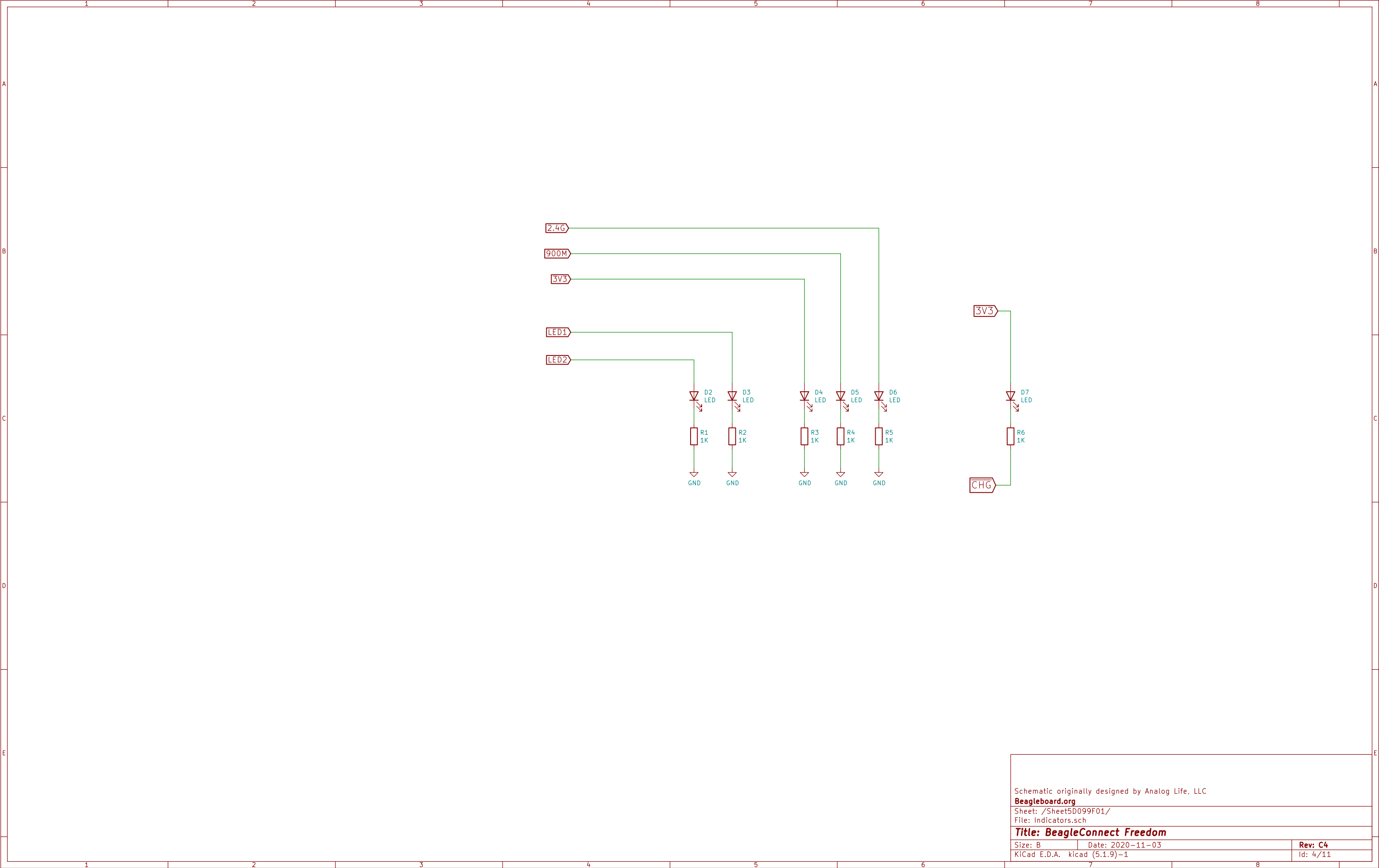
Id: 2/11



Size: B	Date: 2020-11-03	Rev: C4
KiCad E.D.A. kicad (5.1.9)-1		Id: 3/11

Rev: C4

d: 3/11



Schematic originally designed by Analog Life, LLC

**Beagleboard.org**

Sheet: /Sheet5D099F01/

File: Indicators.sch

**Title: BeagleConnect Freedom**

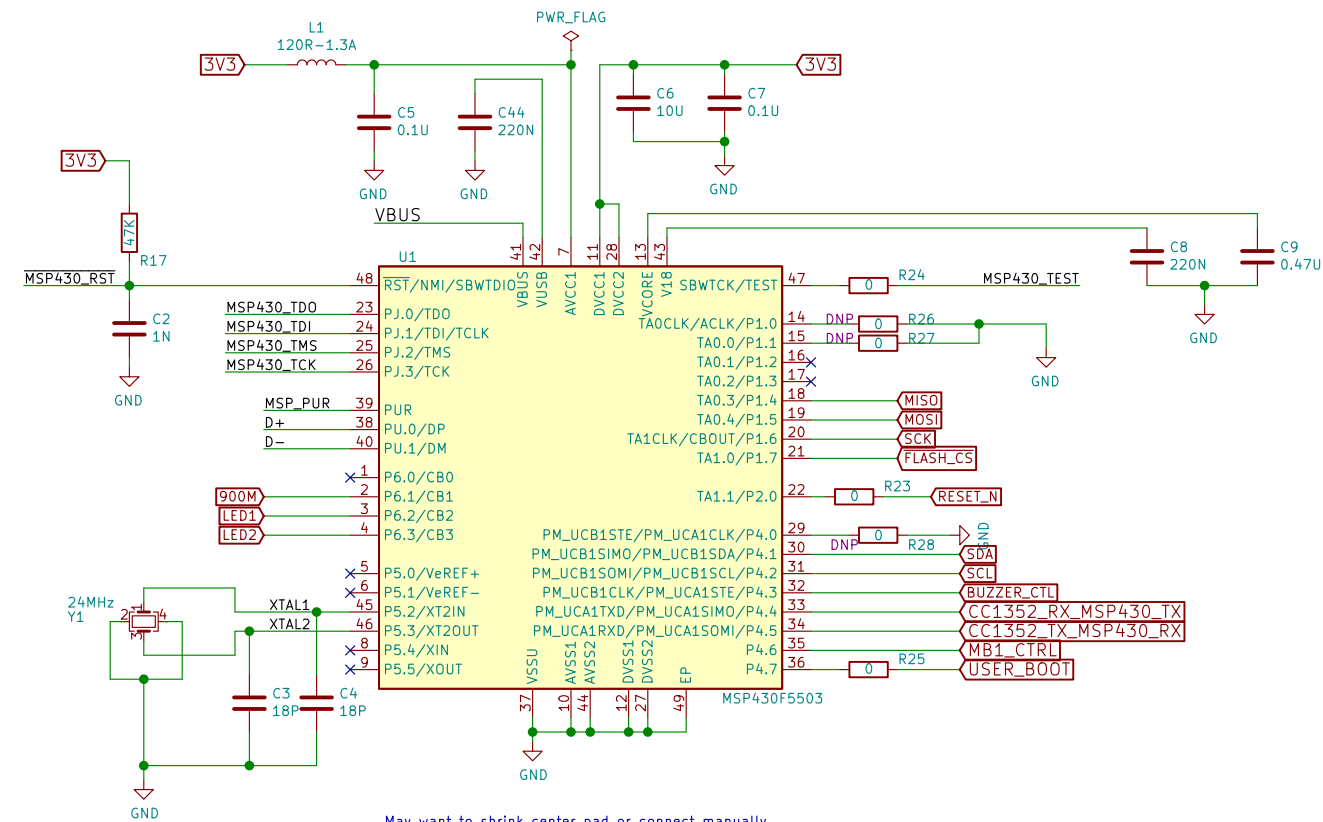
Size: B

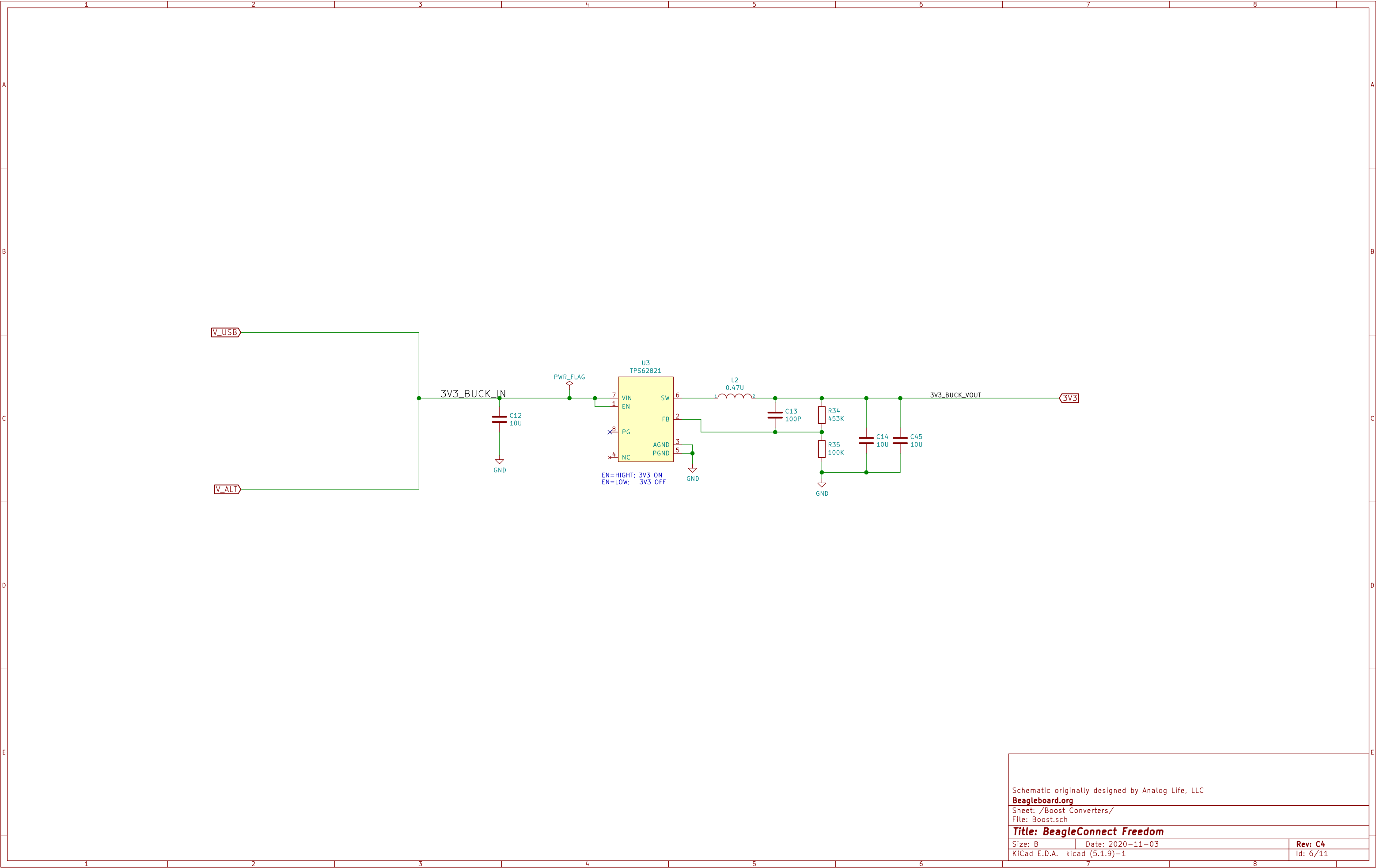
Date: 2020-11-03

Rev: C4

KiCad E.D.A. kicad (5.1.9)-1

Id: 4/11





Schematic originally designed by Analog Life, LLC

**Beagleboard.org**

Sheet: /Boost Converters/

File: Boost.sch

**Title: BeagleConnect Freedom**

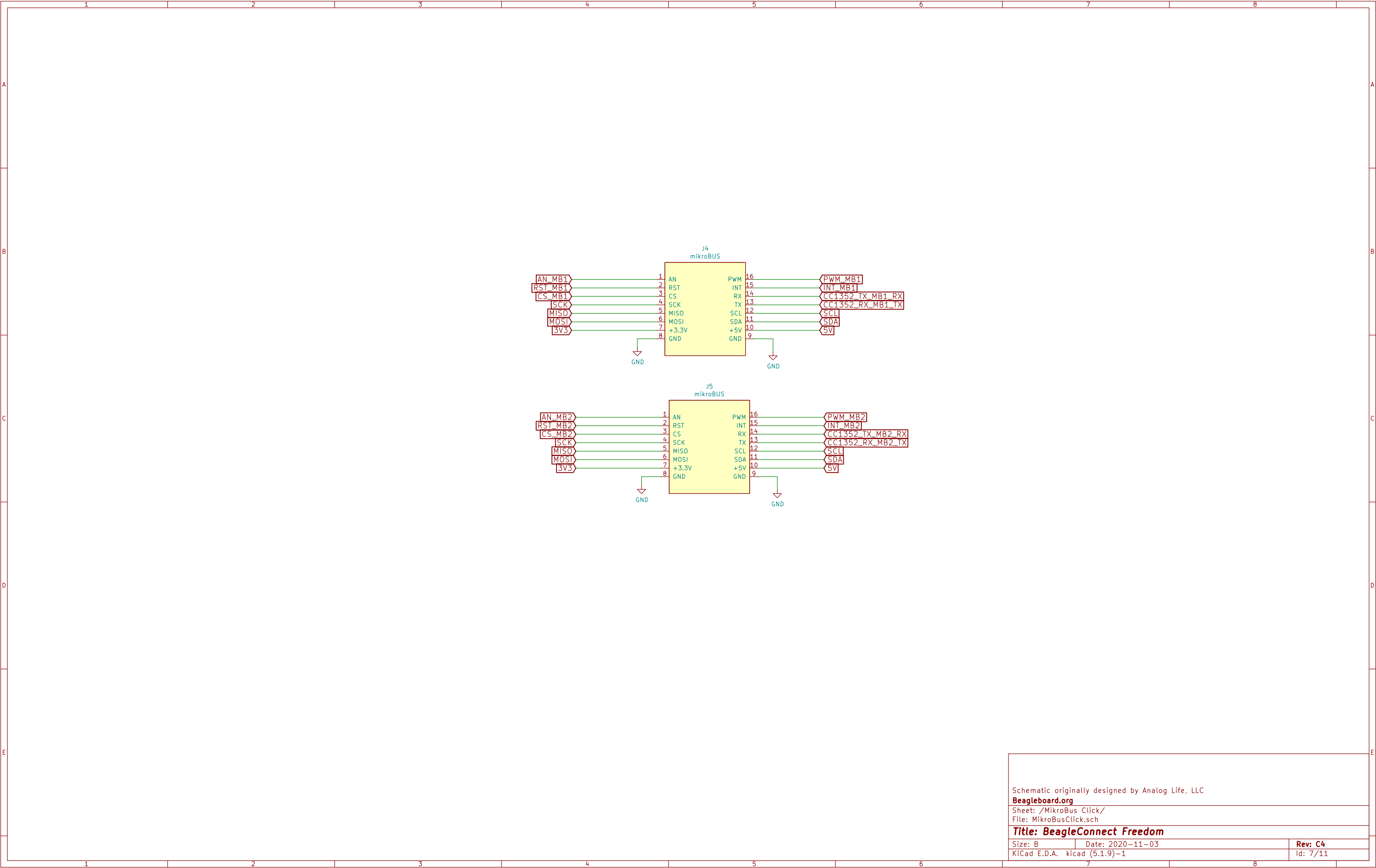
Size: B

Date: 2020-11-03

Rev: C4

KiCad E.D.A. kicad (5.1.9)-1

Id: 6/11



Schematic originally designed by Analog Life, LLC

**Beagleboard.org**

Sheet: /MikroBus Click/

File: MikroBusClick.sch

**Title: BeagleConnect Freedom**

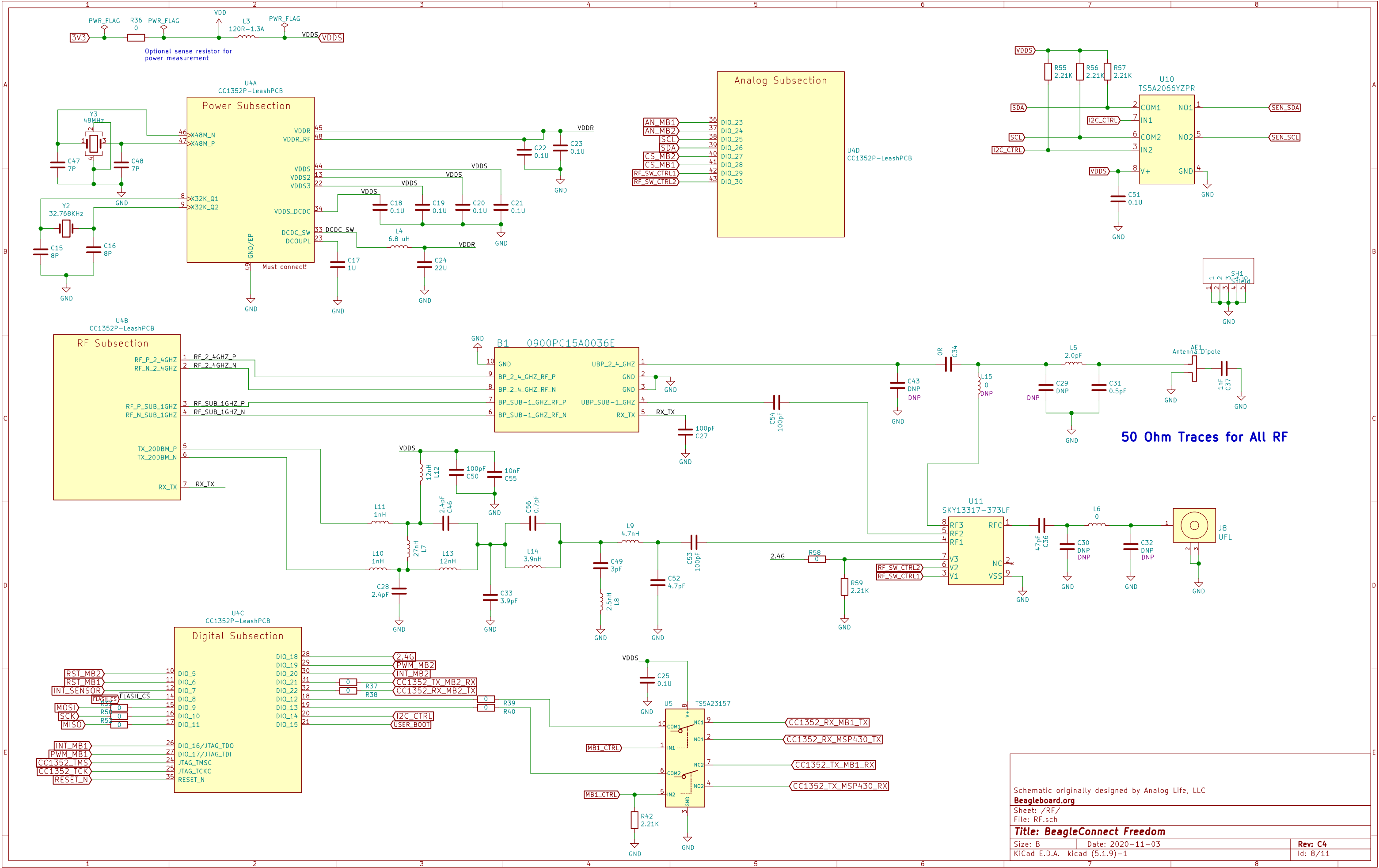
Size: B

Date: 2020-11-03

Rev: C4

KiCad E.D.A. kicad (5.1.9)-1

Id: 7/11



Schematic originally designed by Analog Life, LLC

Beagleboard.org

Sheet: /RF/

File: RF.sch

Title: BeagleConnect Freedom

Size: B

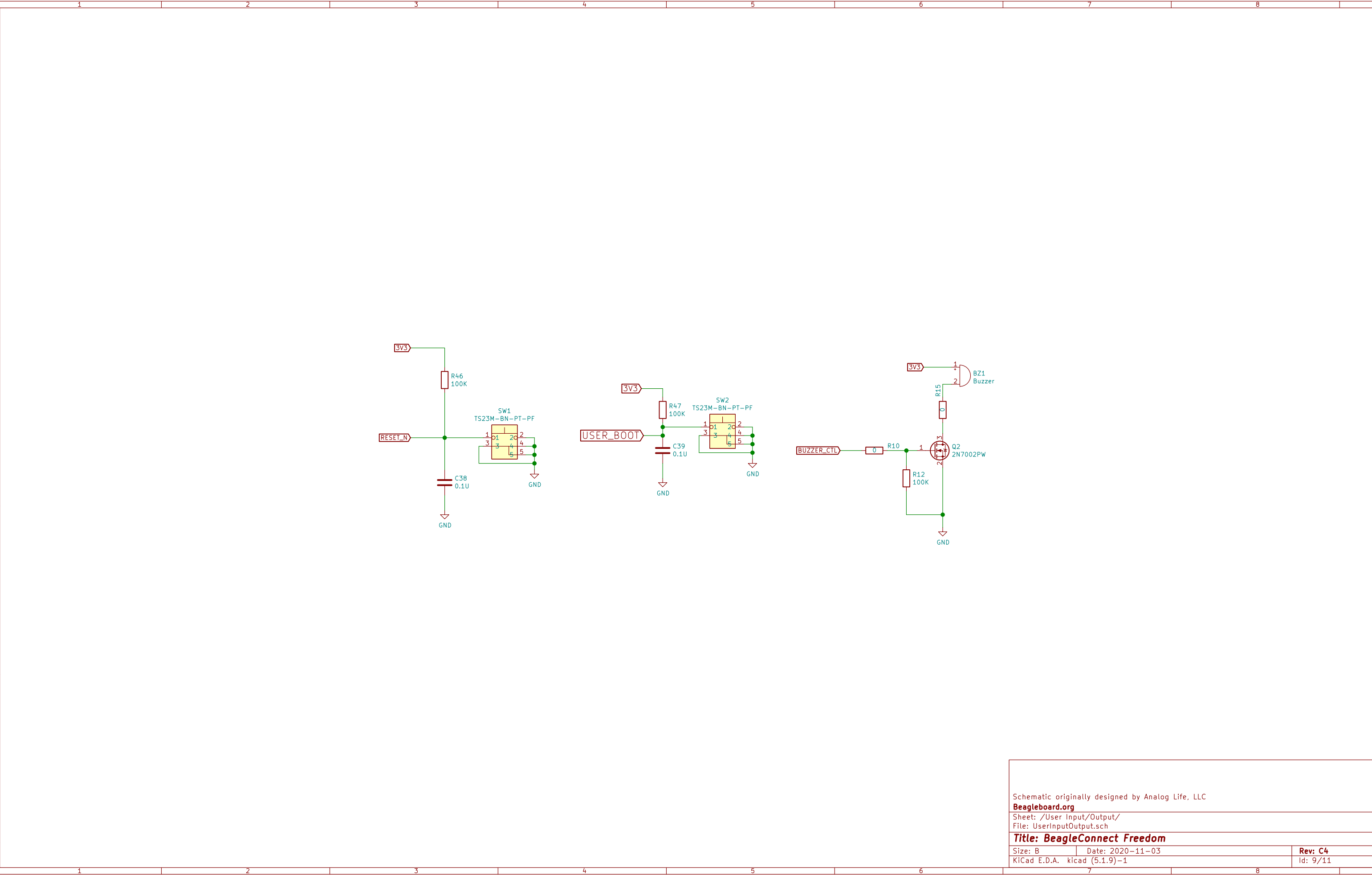
Date: 2020-11-03

Rev: C4

KiCad E.D.A. kicad (5.1.9)-1

Id: 8/11





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**Beagleboard.org**

Sheet: /User Input/Output/

File: UserInputOutput.sch

**Title: BeagleConnect Freedom**

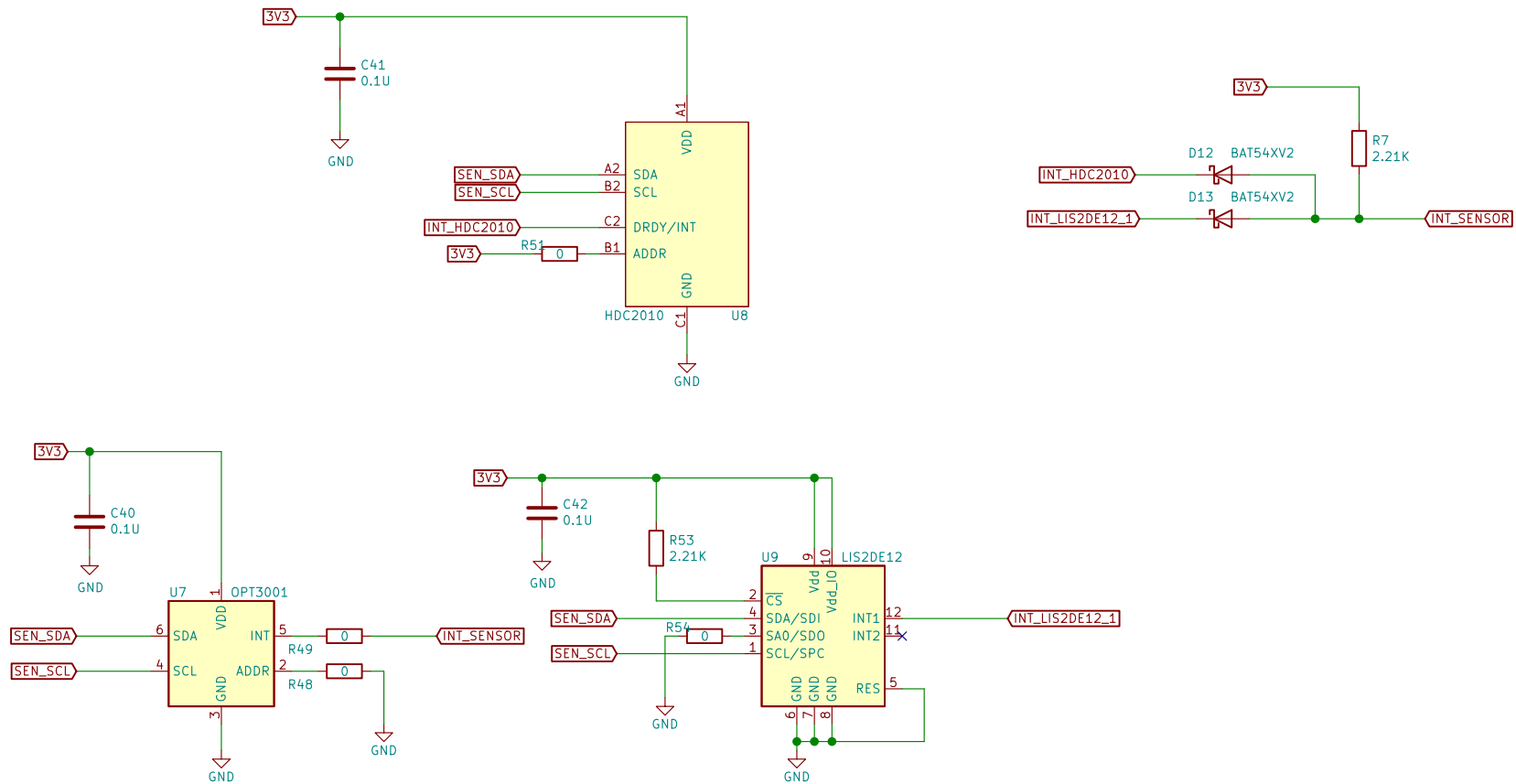
Size: B

Date: 2020-11-03

Rev: C4

KiCad E.D.A. kicad (5.1.9)-1

Id: 9/11



Schematic originally designed by Analog Life, LLC

**Beagleboard.org**

Sheet: /Sensors/

File: Sensors.sch

**Title: BeagleConnect Freedom**

Size: A4 Date: 2020-11-03

KiCad E.D.A. kicad (5.1.9)-1

**Rev: C4**

Id: 10/11

Id: 11/11