

Sheet: External Input

Estimated BOM cost: \$0.03

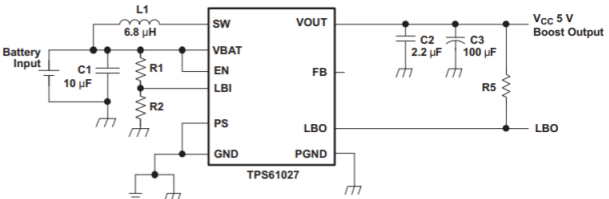


Alt Power Input

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: USB Input

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



USB Input
(Power/serial)

File: USB_Input.sch

Sheet: Sensors

File: Sensors.sch

Sheet: User Input/Output

Estimated BOM cost: \$0.05



User I/O

File: UserInputOutput.sch

Sheet: Programming

Estimated BOM cost: \$0.00

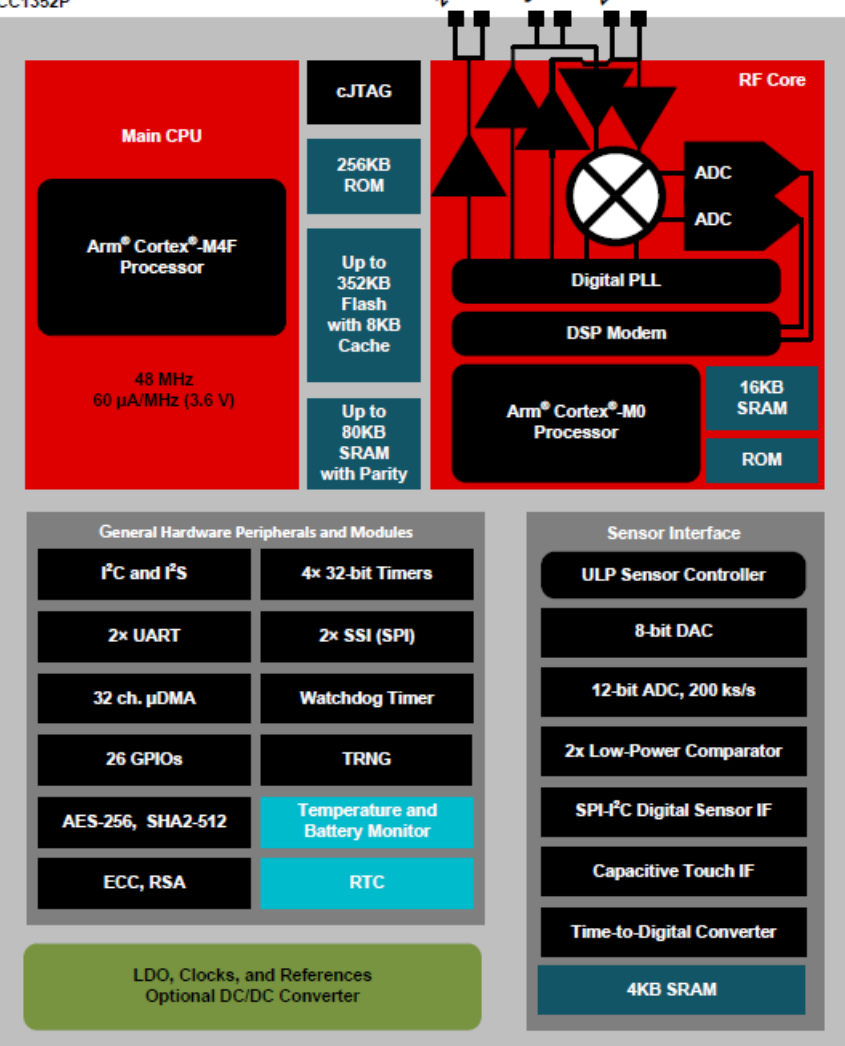


Programming

File: Programming.sch

Sheet: RF

Estimated BOM cost: \$1.27

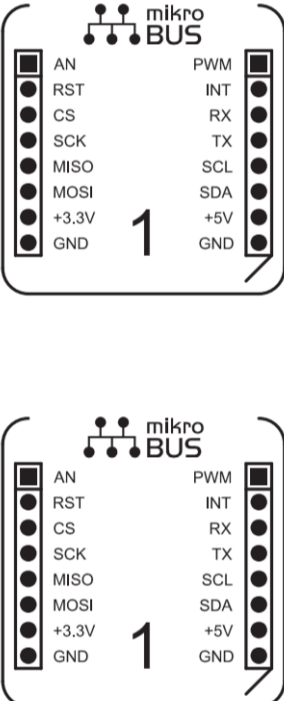


RF and Processor

File: RF.sch

Sheet: MikroBus Click

Estimated BOM cost: \$0.15




MikroBus Headers

File: MikroBusClick.sch

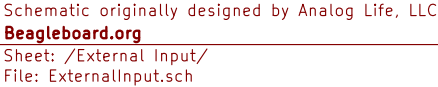
Sheet: Sheet50099F01

Estimated BOM cost: \$0.03



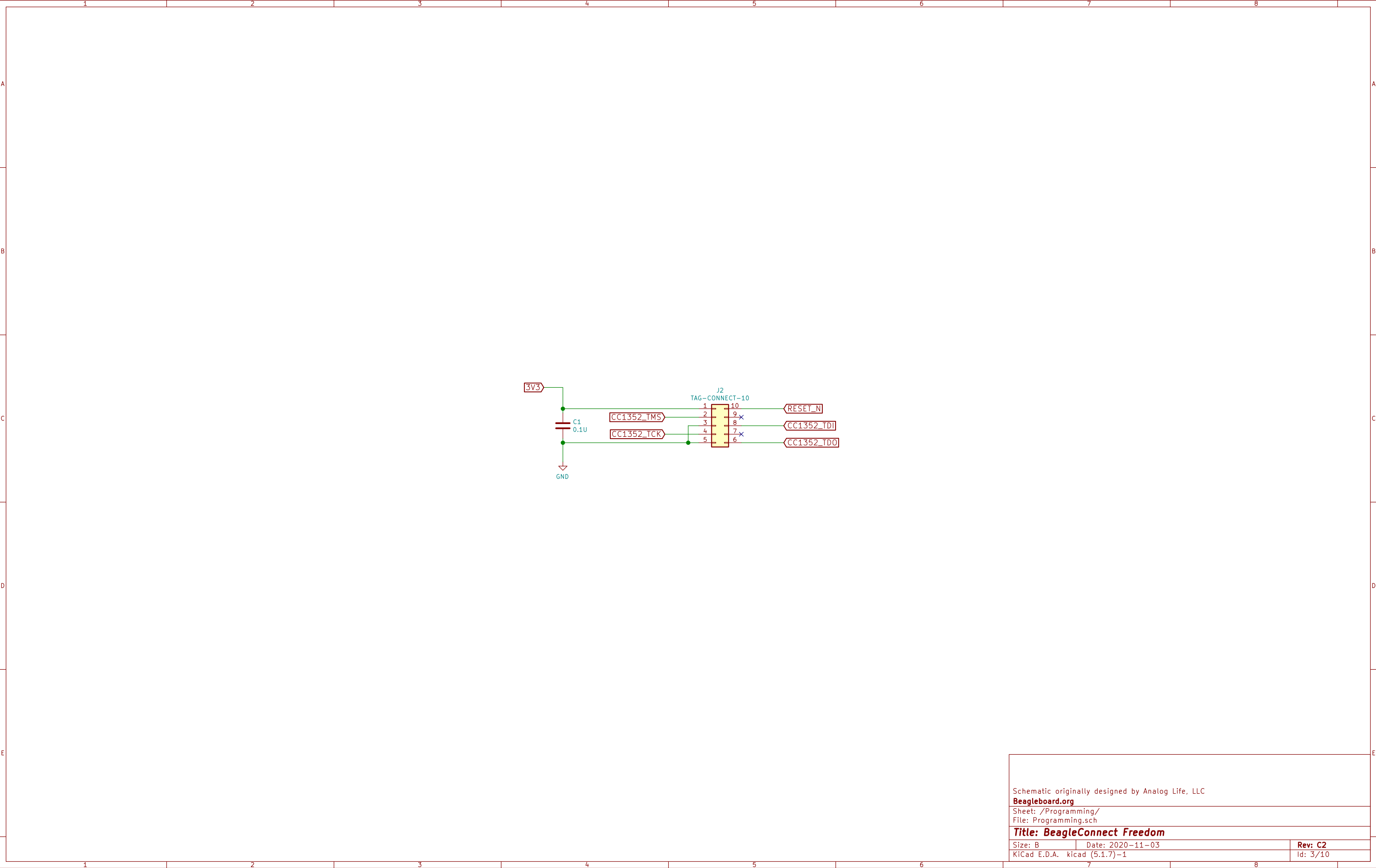
Indicators

File: Indicators.sch



Size: B	Date: 2020-11-03	Rev: C2
KiCad E.D.A. kicad (5.1.7)-1		Id: 2/10

Id: 2/10



Schematic originally designed by Analog Life, LLC

Beagleboard.org

Sheet: /Programming/

File: Programming.sch

Title: BeagleConnect Freedom

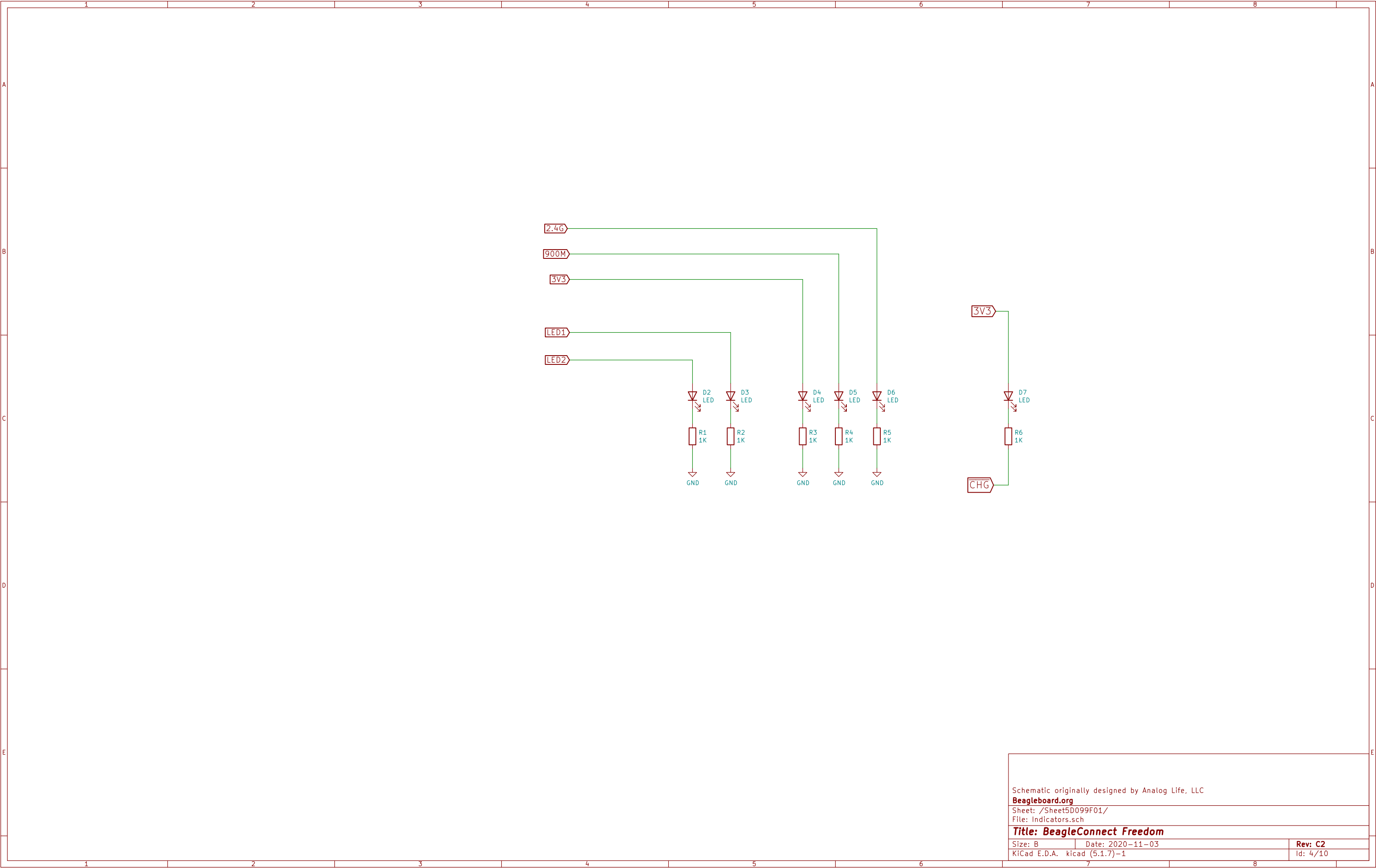
Size: B

Date: 2020-11-03

Rev: C2

KiCad E.D.A. kicad (5.1.7)-1

Id: 3/10



Schematic originally designed by Analog Life, LLC

Beagleboard.org

Sheet: /Sheet5D099F01/

File: Indicators.sch

Title: BeagleConnect Freedom

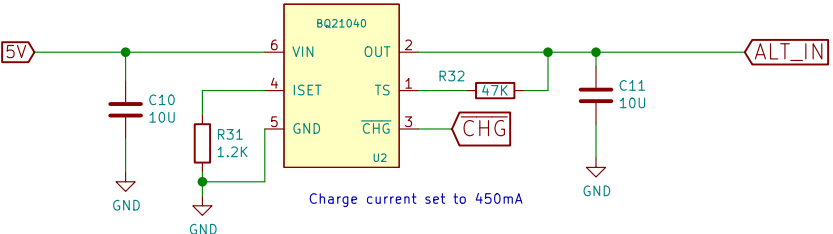
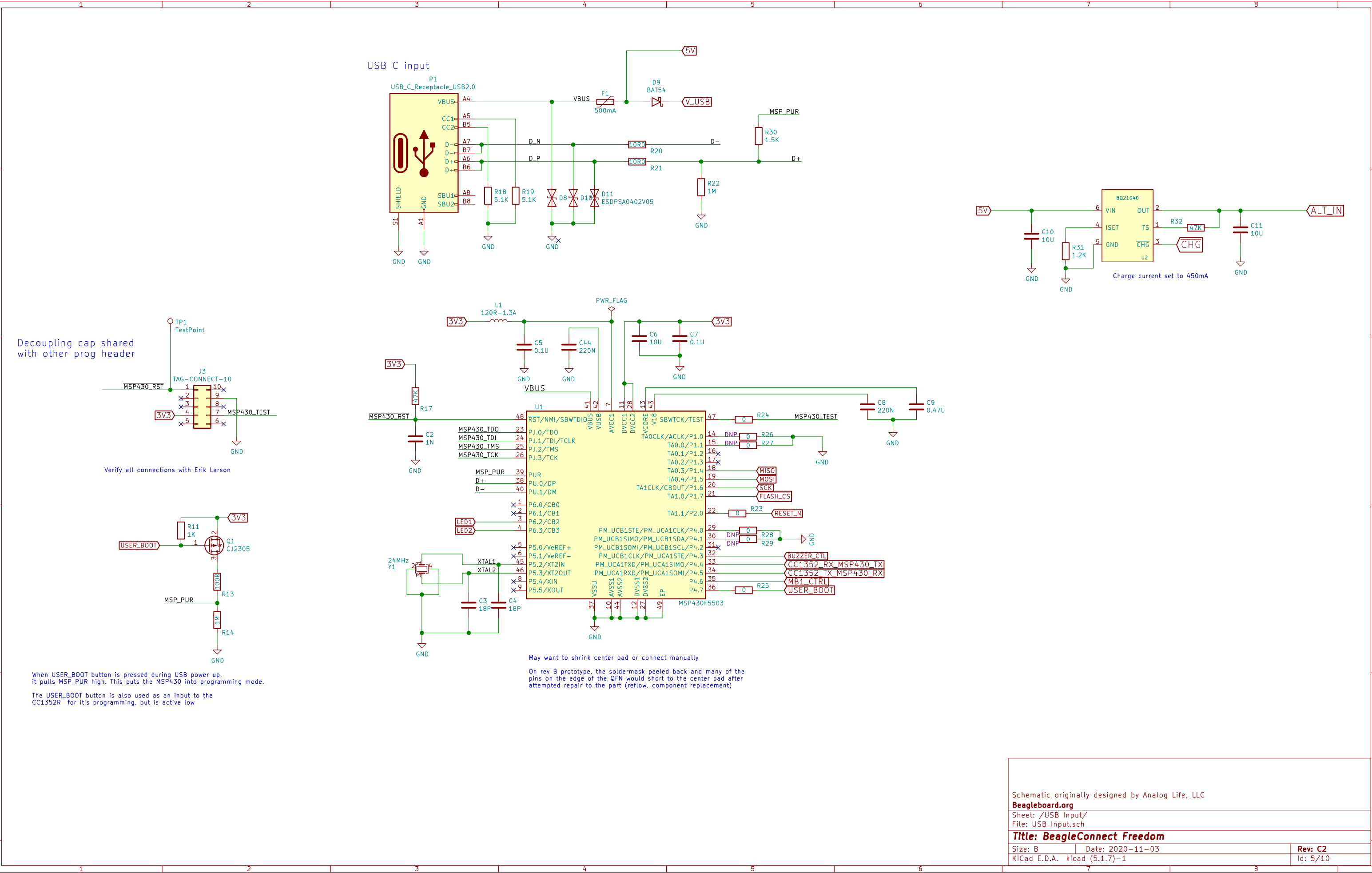
Size: B

Date: 2020-11-03

Rev: C2

KiCad E.D.A. kicad (5.1.7)-1

Id: 4/10



Schematic originally designed by Analog Life, LLC

Beagleboard.org

Sheet: /USB Input/

File: USB_Input.sch

Title: BeagleConnect Freedom

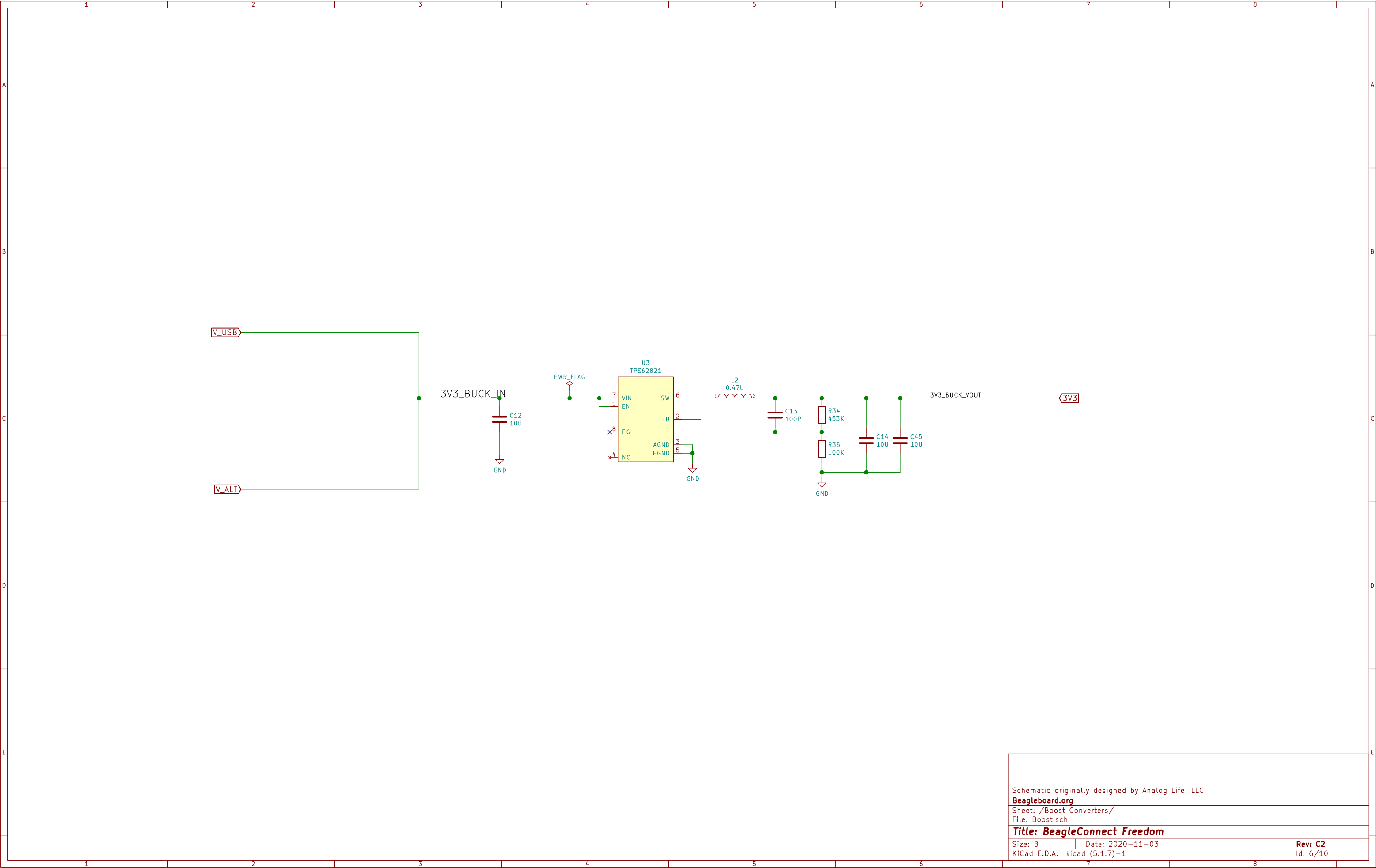
Size: B

Date: 2020-11-03

Rev: C2

KiCad E.D.A. kicad (5.1.7)-1

Id: 5/10



Schematic originally designed by Analog Life, LLC

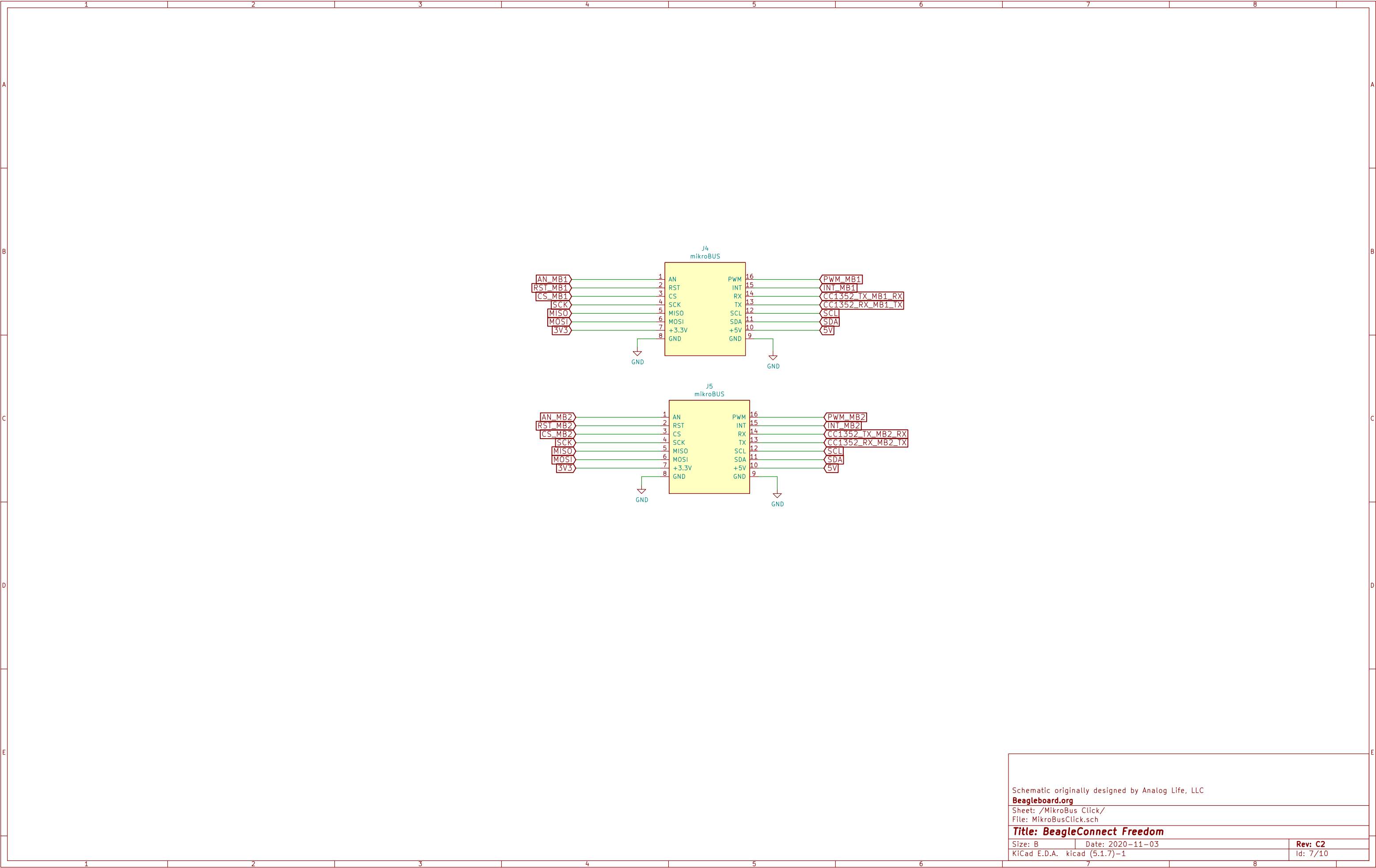
Beagleboard.org

Sheet: /Boost Converters/

File: Boost.sch

Title: BeagleConnect Freedom

Size: B	Date: 2020-11-03	Rev: C2
KiCad E.D.A. kicad (5.1.7)-1		Id: 6/10



Schematic originally designed by Analog Life, LLC

Beagleboard.org

Sheet: /MikroBus Click/

File: MikroBusClick.sch

Title: BeagleConnect Freedom

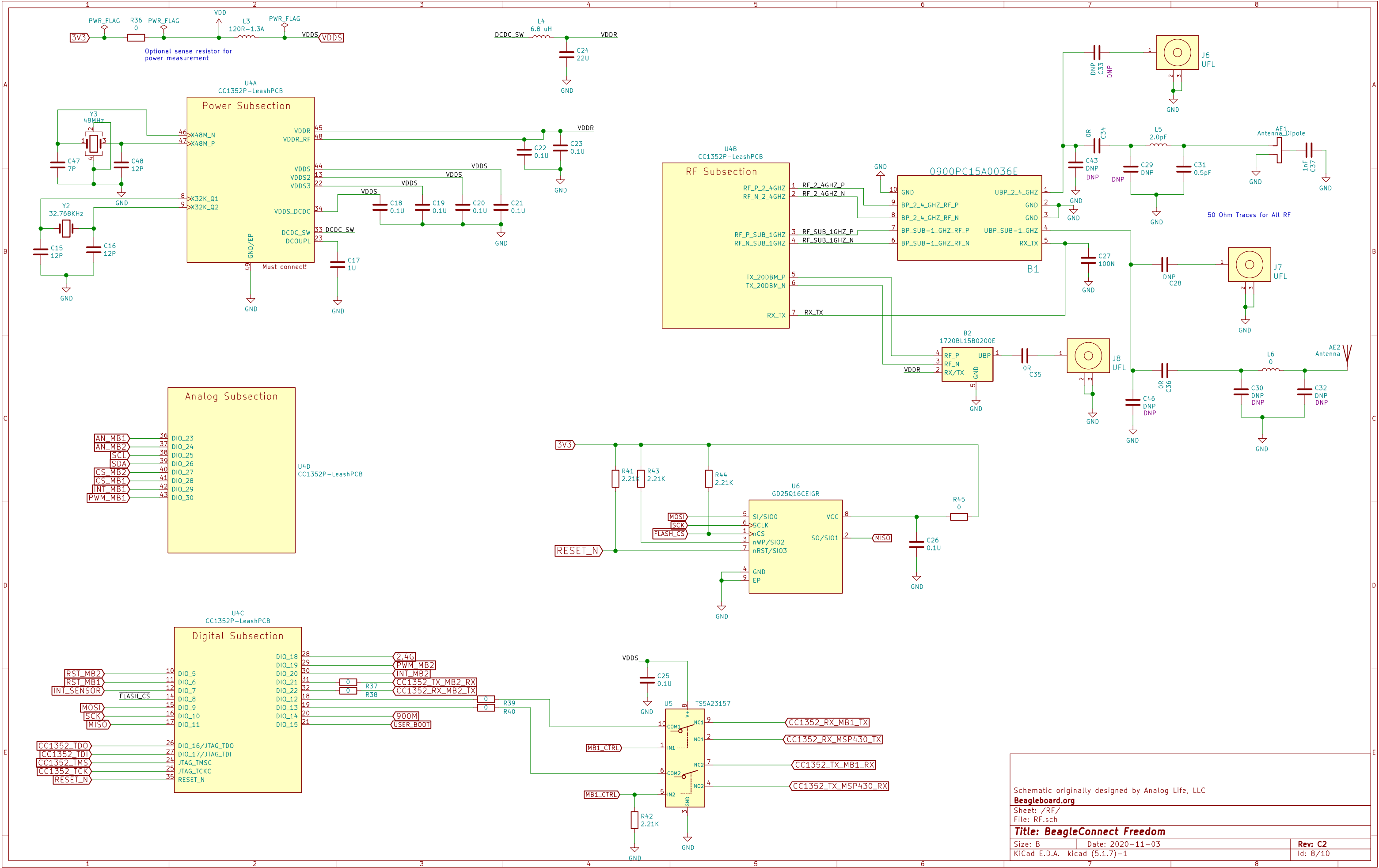
Size: B

Date: 2020-11-03

Rev: C2

KiCad E.D.A. kicad (5.1.7)-1

Id: 7/10



Schematic originally designed by Analog Life, LLC

Beagleboard.org

Sheet: /RF/

File: RF.sch

Title: BeagleConnect Freedom

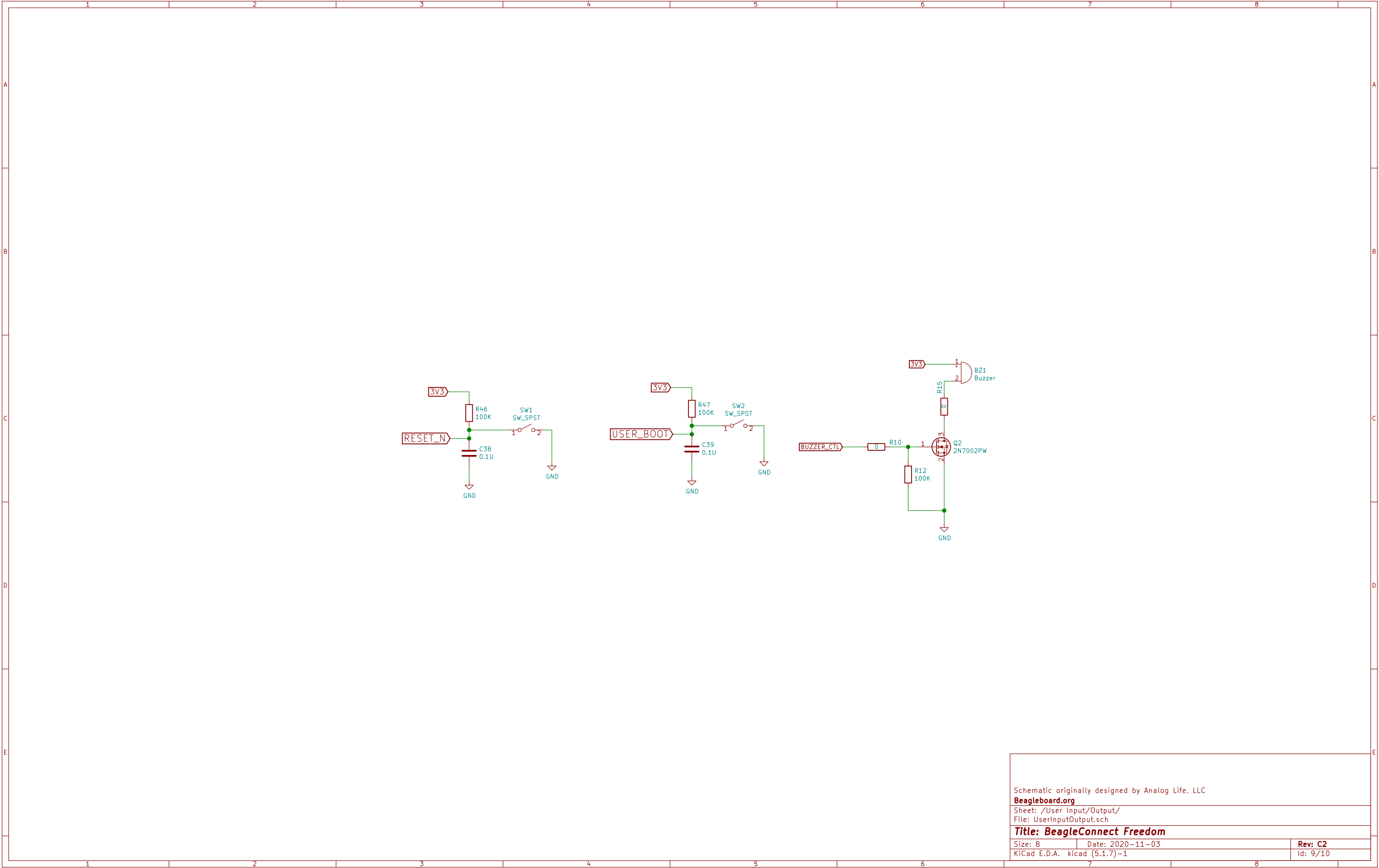
Size: B

Date: 2020-11-03

Rev: C2

KiCad E.D.A. kicad (5.1.7)-1

Id: 8/10



Schematic originally designed by Analog Life, LLC

Beagleboard.org

Sheet: /User Input/Output/

File: UserInputOutput.sch

Title: BeagleConnect Freedom

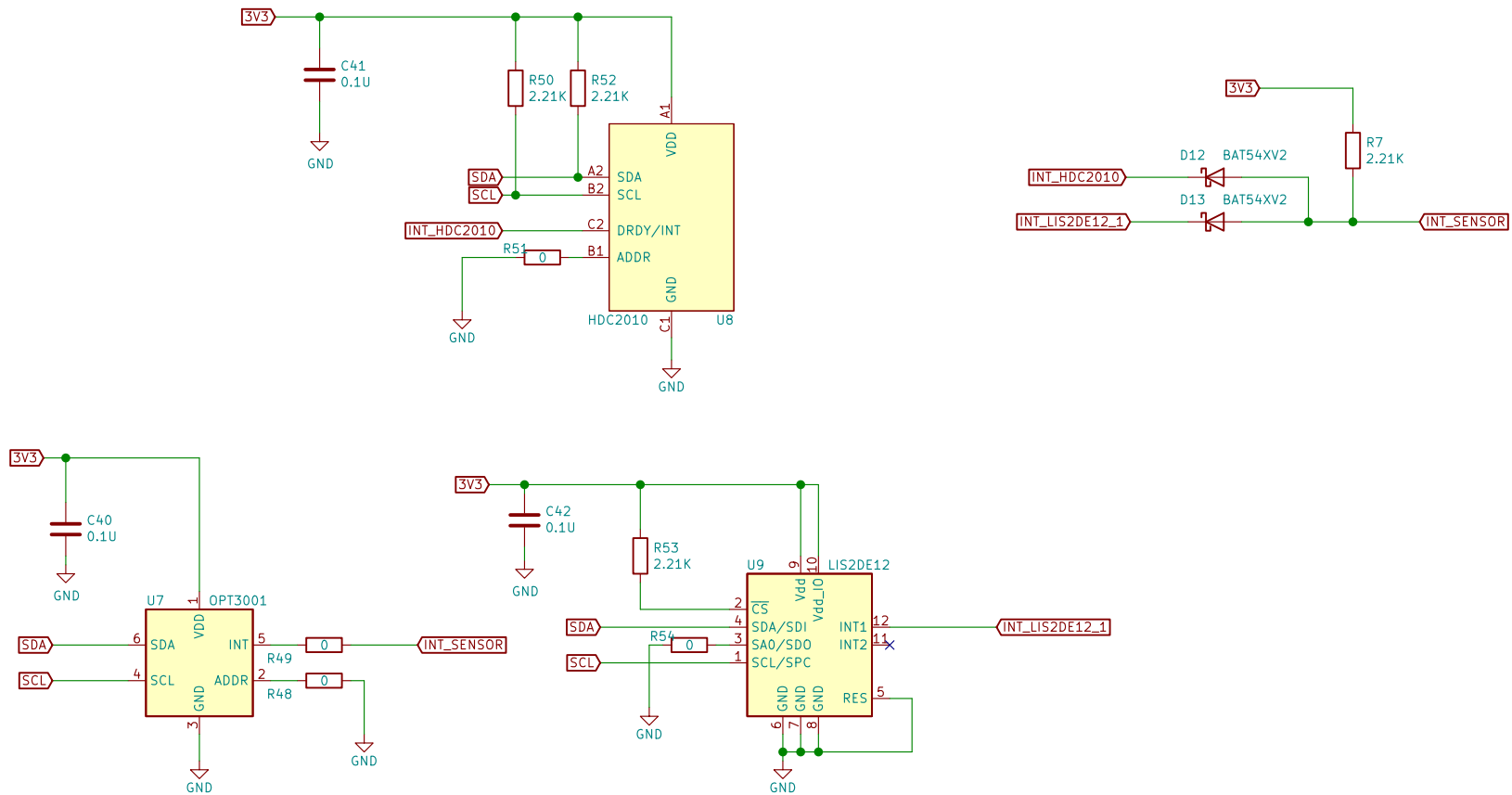
Size: B

Date: 2020-11-03

Rev: C2

KiCad E.D.A. kicad (5.1.7)-1

Id: 9/10



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 (5.1.7)-1

Rev: C2

Id: 10/10