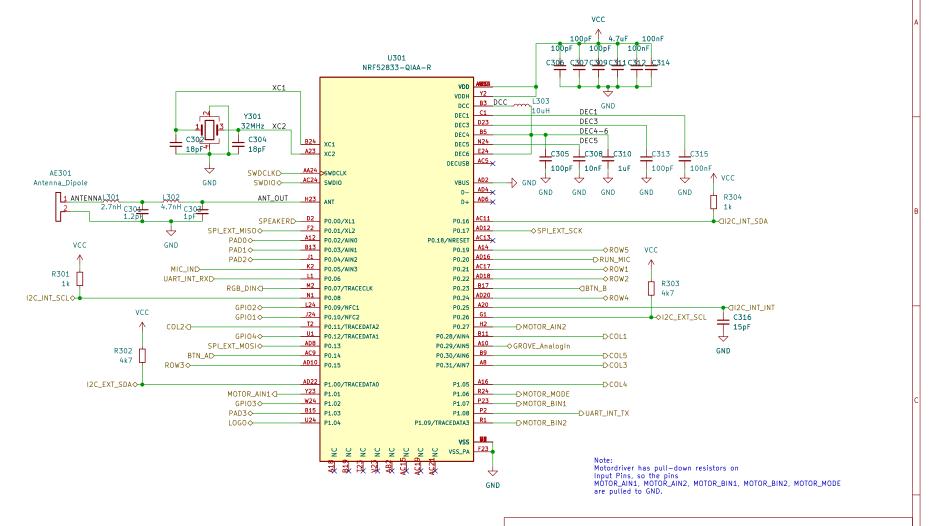


## **Application Processor**



#### calliope gGmbH

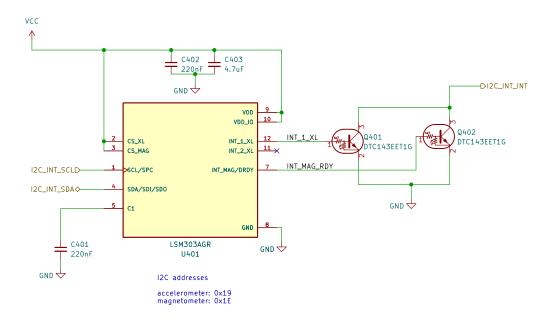
Sheet: /Application/ File: Application.kicad\_sch

T	itl	e:	m	in	iv3

 Size: A4
 Date: 2023-10-12
 Rev: REV14\_2

 KiCad E.D.A. kicad 6.0.11-2627ca5db0-126-ubuntu20.04.1
 Id: 3/11

# Accelerometer and Magnetometer



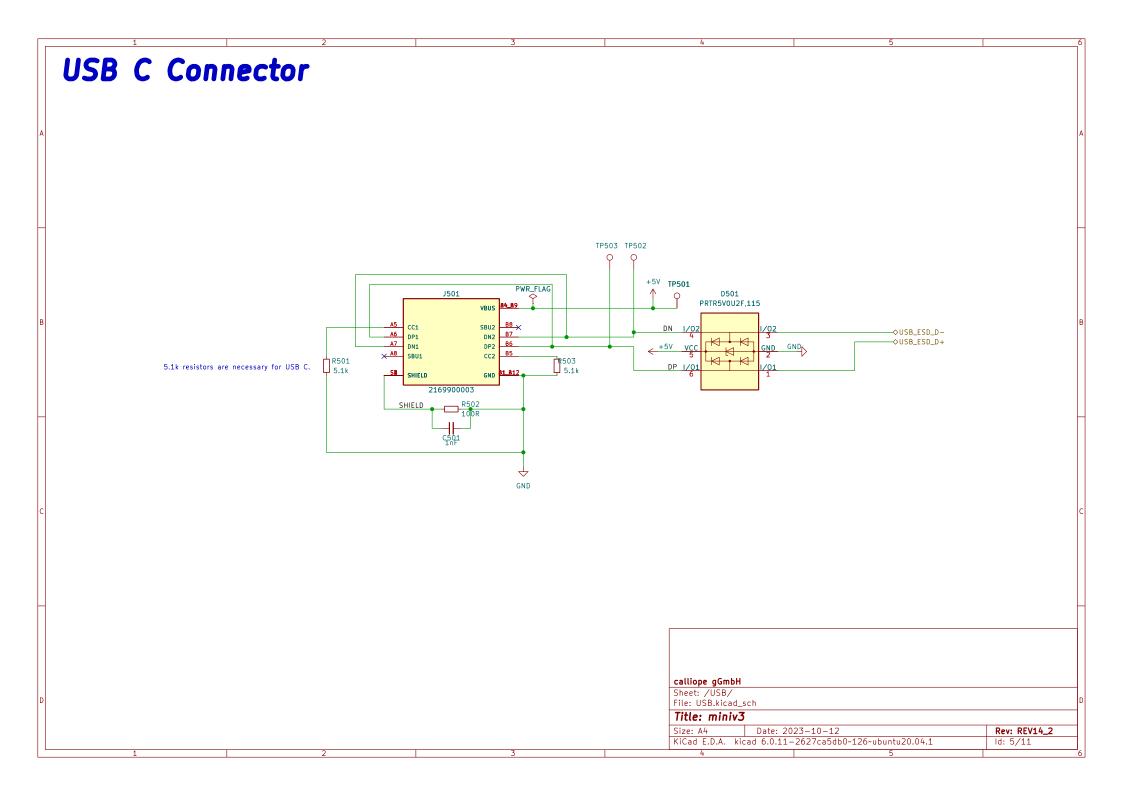
#### calliope gGmbH

Sheet: /Motion/ File: Motion.kicad\_sch

#### Title: miniv3

 Size: A4
 Date: 2023-10-12
 Rev: REV14\_2

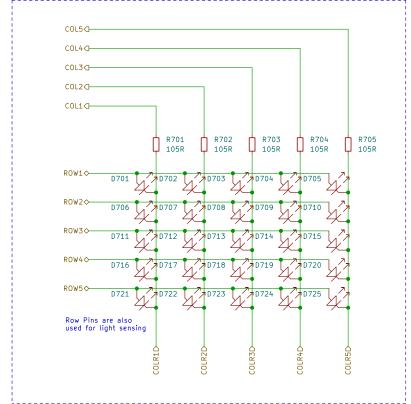
 KiCad E.D.A. kicad 6.0.11-2627ca5db0~126~ubuntu20.04.1
 Id: 4/11



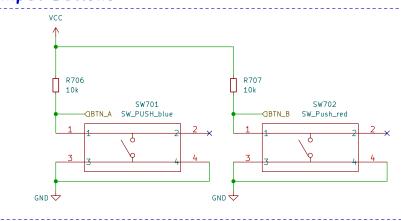
### Power and Monitoring **POWER** VCC BAT54T-7-F +5٧ VCOMBINED D602 PWR\_FLAG NCP114ASN330T1G BAT60J N/C 4× GNĎ EN D603 S2B-PH-SM4-TB(LF)(SN) BAT60A BAT60A D5V0H1B2\_P-7B -DRUN\_VBAT\_SENSE R605 R604 DTA143ZET1G 10k 100k DTC143EET1G Q603 QVBUS\_ABSENT ──\UBAT\_SENSE R602 C601 33k # 100nF DTC143EET1G GND GND **MONITORING** calliope gGmbH Sheet: /Power\_and\_Monitoring/ File: Power.kicad\_sch Title: miniv3 Size: A4 Date: 2023-10-12 Rev: REV14\_2 KiCad E.D.A. kicad 6.0.11-2627ca5db0~126~ubuntu20.04.1 ld: 6/11

## LEDs and buttons

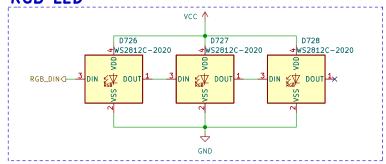
### 5x5 LED Matrix



## Input Buttons



### RGB LED



#### calliope gGmbH

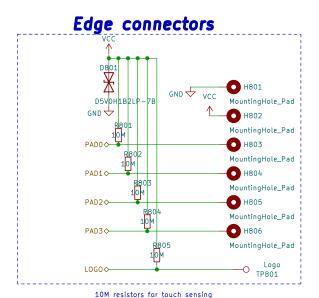
Sheet: /LEDs\_and\_buttons/ File: ledsandbuttons.kicad\_sch

#### Title: miniv3

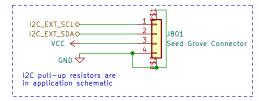
 Size: A4
 Date: 2023-10-12
 Rev: REV14\_2

 KiCad E.D.A. kicad 6.0.11-2627ca5db0~126~ubuntu20.04.1
 Id: 7/11

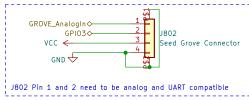
## **Connectors**



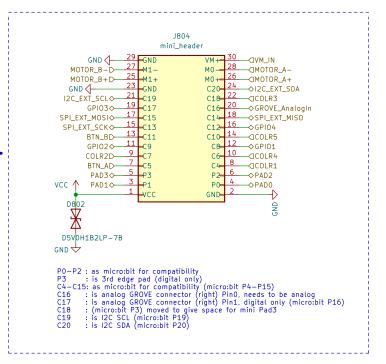
#### 12C Grove Connector



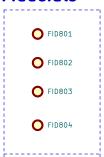
## **UART/Analog Grove Connector**



#### mini Connector



### **Fiducials**



calliope gGmbH

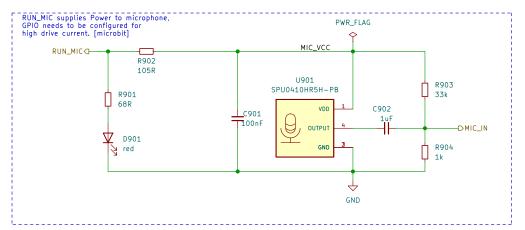
Sheet: /Connectors/ File: connectors.kicad\_sch

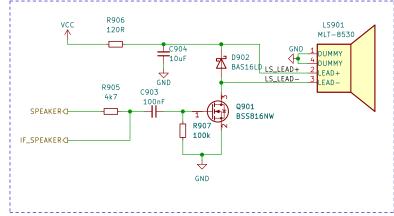
Title: miniv3

 Size: A4
 Date: 2023-10-12
 Rev: REV14\_2

 KiCad E.D.A. kicad 6.0.11-2627ca5db0~126~ubuntu20.04.1
 Id: 8/11

# Speaker and microphone





Microphone

Speaker

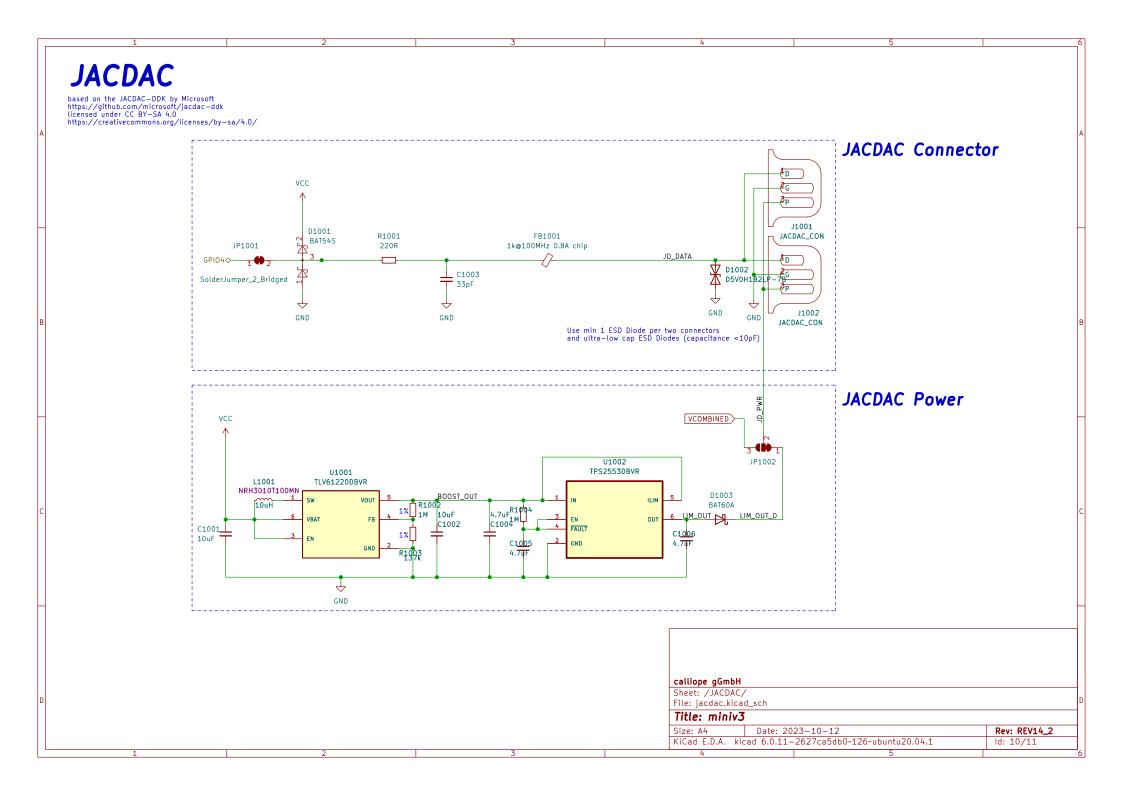
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Sheet: /Speaker\_and\_microphone/ File: speakerandmicrophone.kicad\_sch

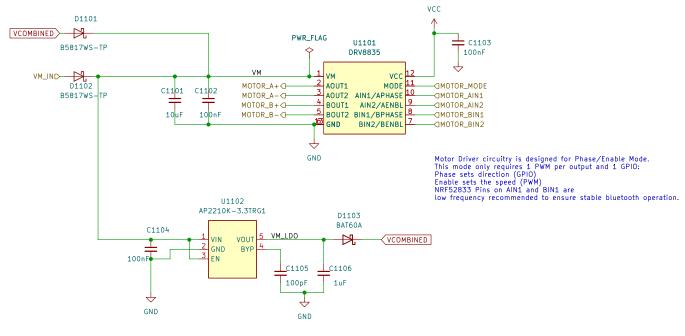
Title: miniv3

 Size: A4
 Date: 2023-10-12
 Rev: REV14\_2

 KiCad E.D.A. kicad 6.0.11-2627ca5db0-126~ubuntu20.04.1
 Id: 9/11



## **Motor Driver**



This LDO supplies the Board when only VM present (no connected battery)

calliope gGmbH
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Sheet: /Motor Driver/ File: motor.kicad\_sch

	le:		<b>V</b> 3

 Size: A4
 Date: 2023-10-12
 Rev: REV14\_2

 KiCad E.D.A. kicad 6.0.11-2627ca5db0~126~ubuntu20.04.1
 Id: 11/11