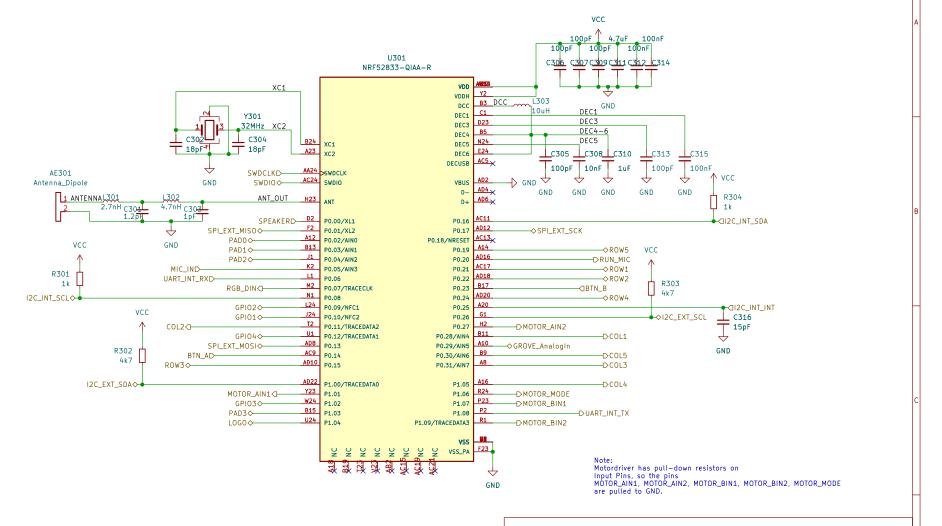


Application Processor



calliope gGmbH

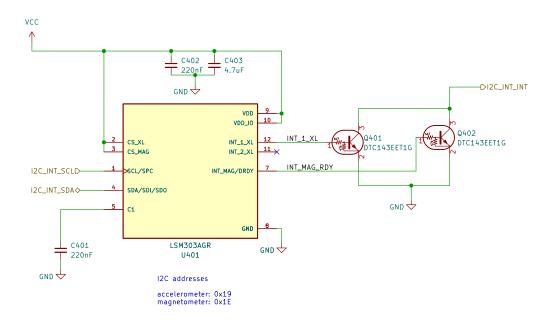
Sheet: /Application/ File: Application.kicad_sch

Title:	mi	n	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



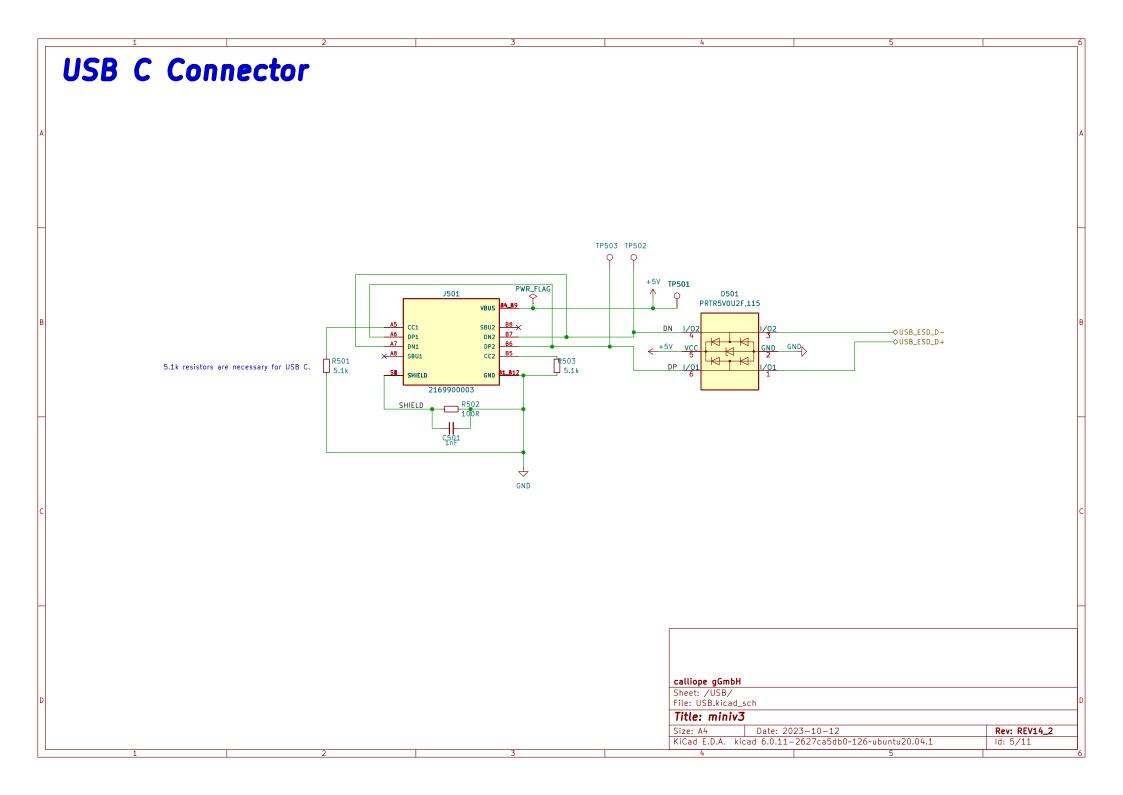
calliope gGmbH

Sheet: /Motion/ File: Motion.kicad_sch

Title: miniv3

 Size: A4
 Date: 2023-10-12
 Rev: REV14_2

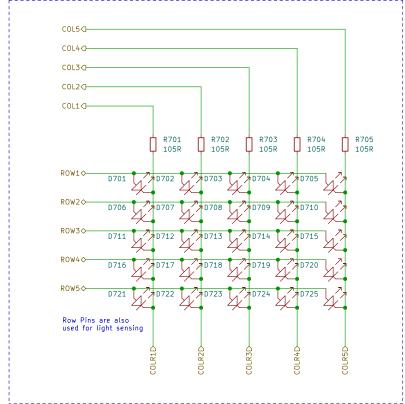
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 Id: 4/11



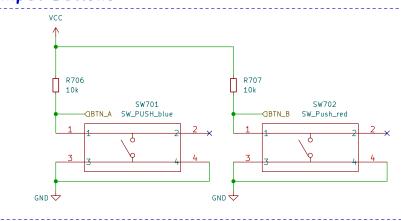
Power and Monitoring **POWER** VCC BAT54T-7-F +5٧ VCOMBINED D602 PWR_FLAG NCP114ASN330T1G BAT60J N/C 4× GNĎ EN D603 S2B-PH-SM4-TB(LF)(SN) BAT60A BAT60A D5V0H1B2_P-7B -DRUN_VBAT_SENSE R605 R604 DTA143ZET1G 10k 100k DTC143EET1G Q603 QVBUS_ABSENT ──\UBAT_SENSE R602 C601 33k # 100nF DTC143EET1G GND GND **MONITORING** 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

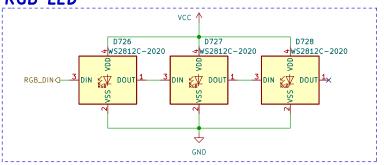
5x5 LED Matrix



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

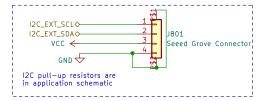
 KiCad E.D.A. kicad 6.0.11-2627ca5db0-126~ubuntu20.04.1
 Id: 7/11

Connectors

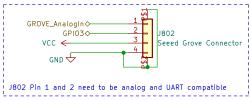
Edge connectors GND 🗸 D5V0H1B2L MountingHole_Pad GND 🕁 M802 MountingHole_Pad PAD0♦ M803 MountingHole_Pad M804 PAD1♦ MountingHole_Pad M805 PAD2♦ MountingHole_Pad M806 PAD3♦ MountingHole_Pad O TP801 LOGO♦

10M resistors for touch sensing

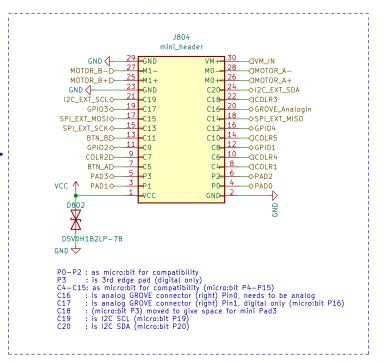
12C Grove Connector



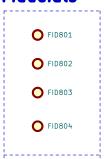
UART/Analog Grove Connector



mini Connector



Fiducials



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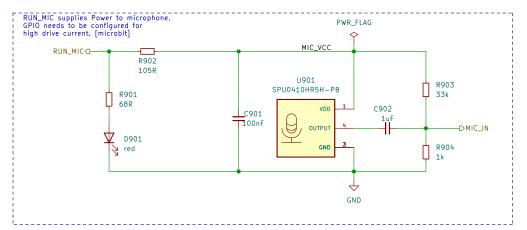
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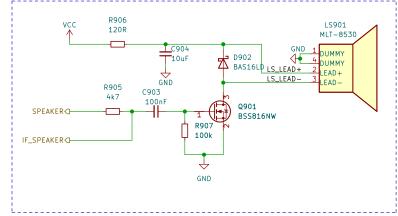
Title: miniv3

 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

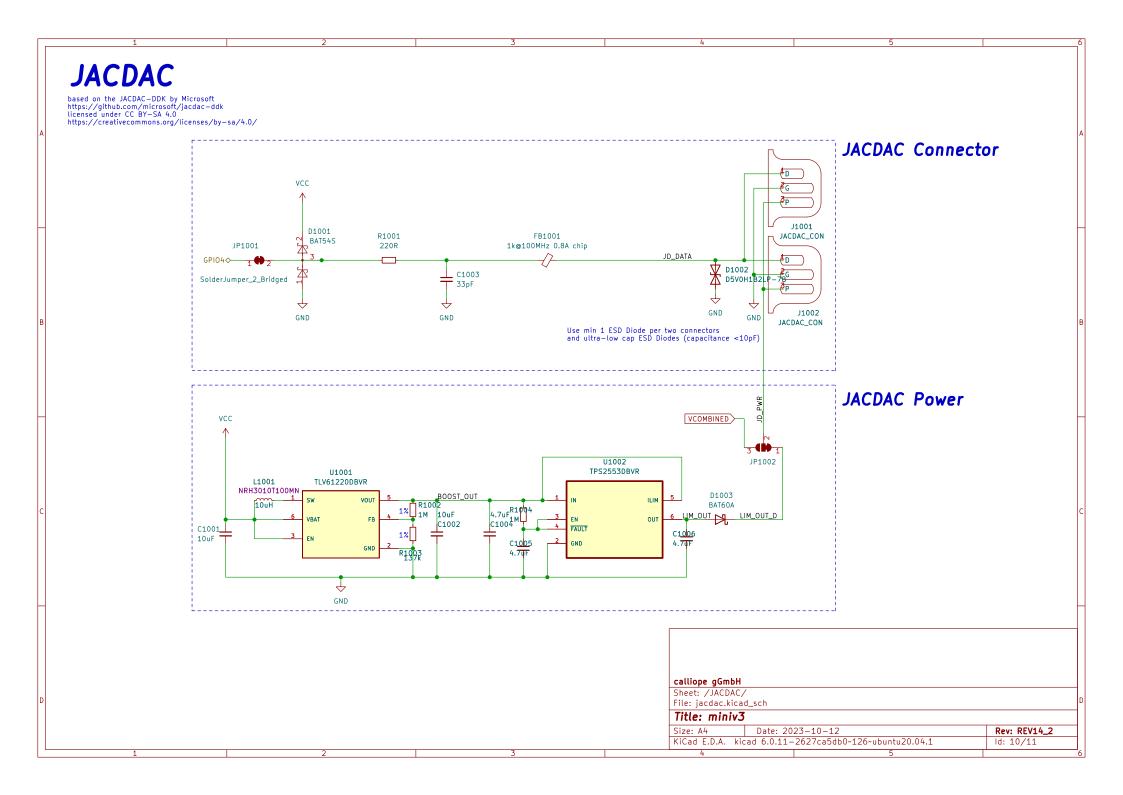
calliope	aGmbH

Sheet: /Speaker_and_microphone/ File: speakerandmicrophone.kicad_sch

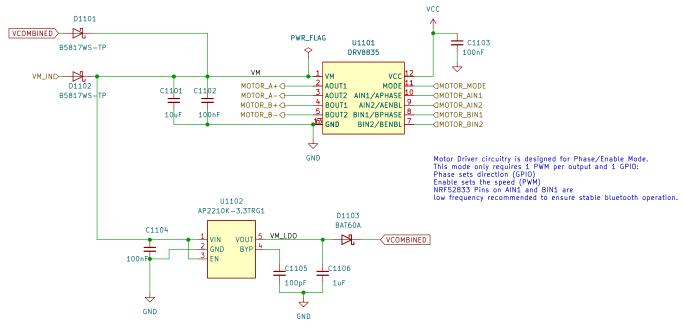
Title: miniv3

 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

Sheet: /Motor Driver/ File: motor.kicad_sch

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 Size: A4
 Date: 2023-10-12
 Rev: REV14_2

 KiCad E.D.A. kicad 6.0.11-2627ca5db0~126~ubuntu20.04.1
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