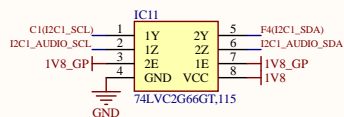


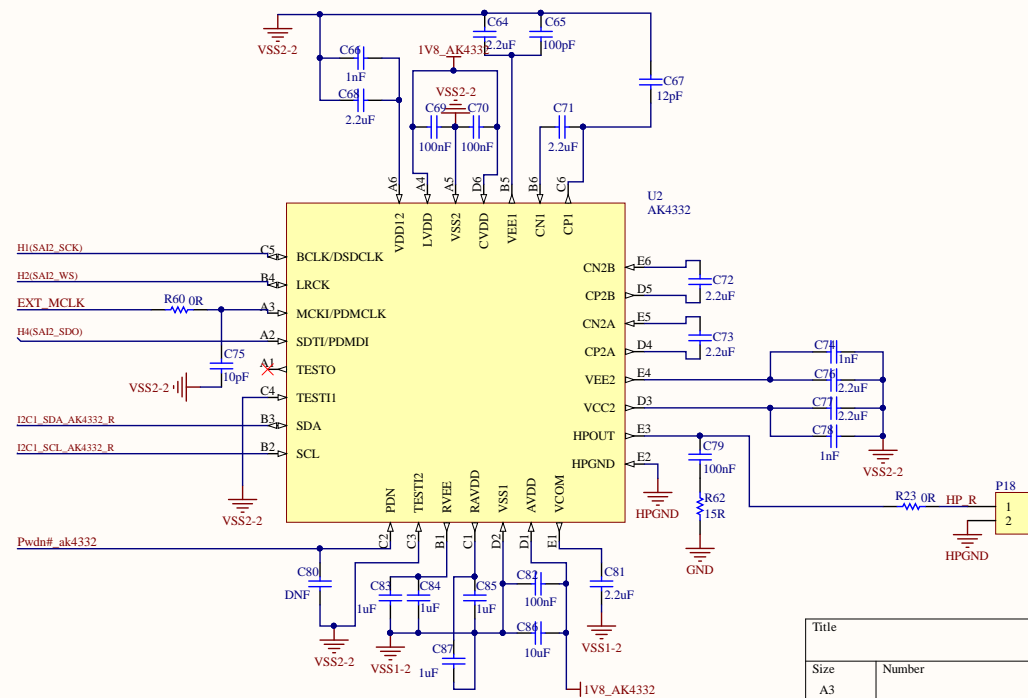
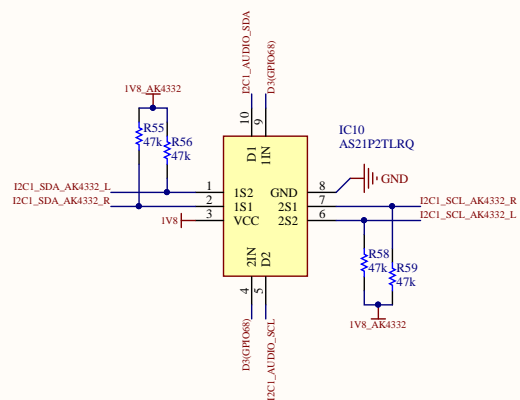
I2C ISOLATION

to avoid I2C bus being pulled low by AK4332 in case its power supply (1V8_AK4332) is switched off (1V8 is always on and 1V8_GP is equivalent to 1V8_AK4332)



I2C MUX

because we have 2x AK4332 and this IC supports only 1 I2C Slave address

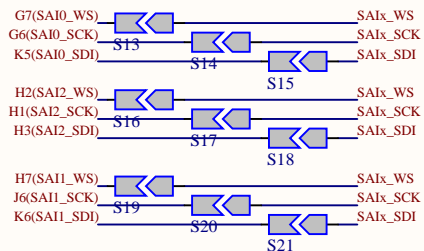
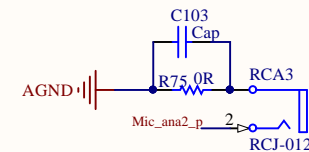
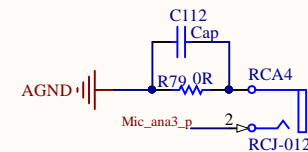
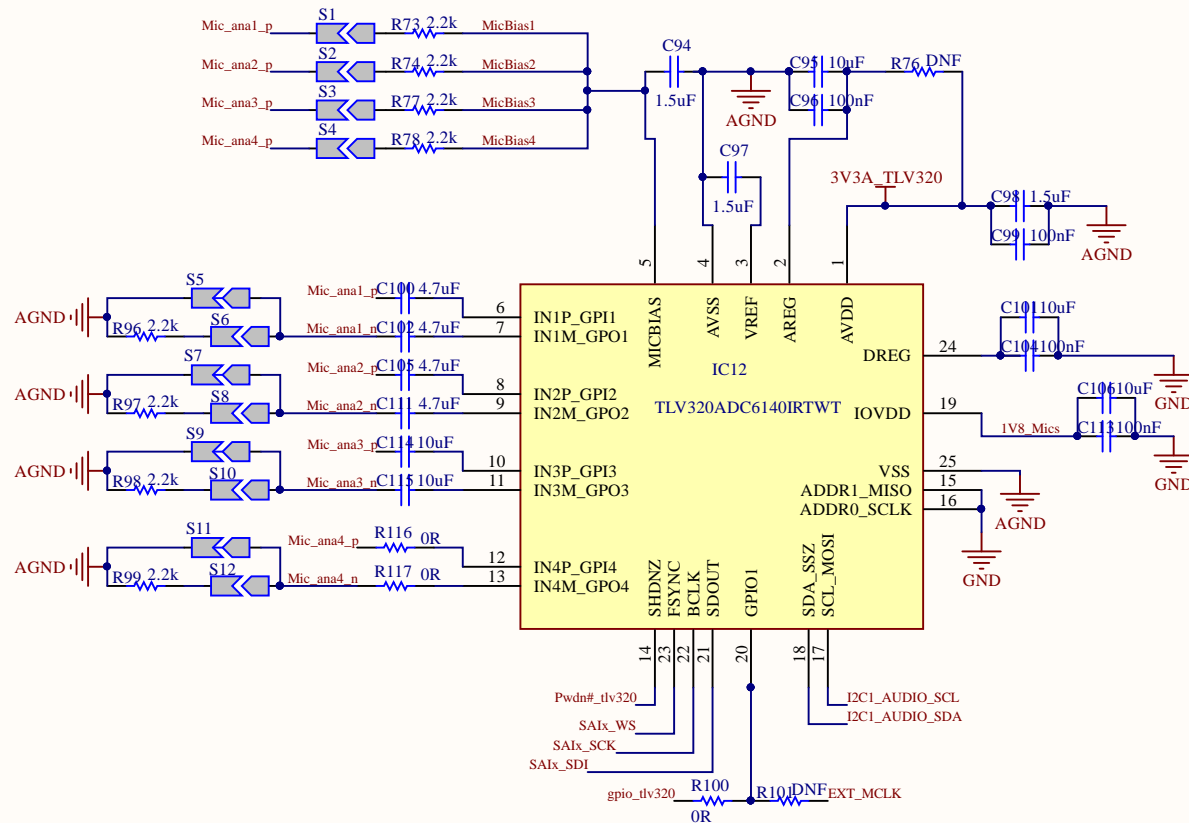


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Optional RCA connectors to input single-ended analog line level (2 channels) - Assy option on back side

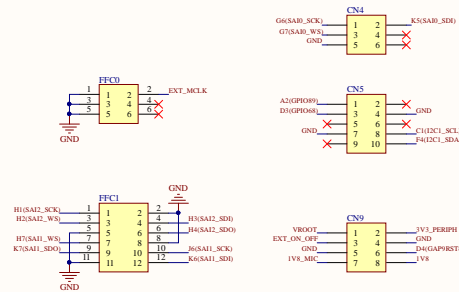
W1 to W12 are jumpers to cope with different type of mics (analog MEMS, analog ECM, PDM), single-ended or differential.

Note: ADC inputs #1 to #3 are AC-coupled while input #4 is DC-coupled

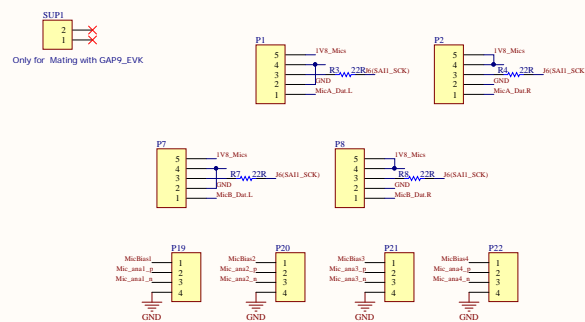


Title		
ANALOG LINE-IN + MIC		
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GAP9_EVK HEADERS+FFC

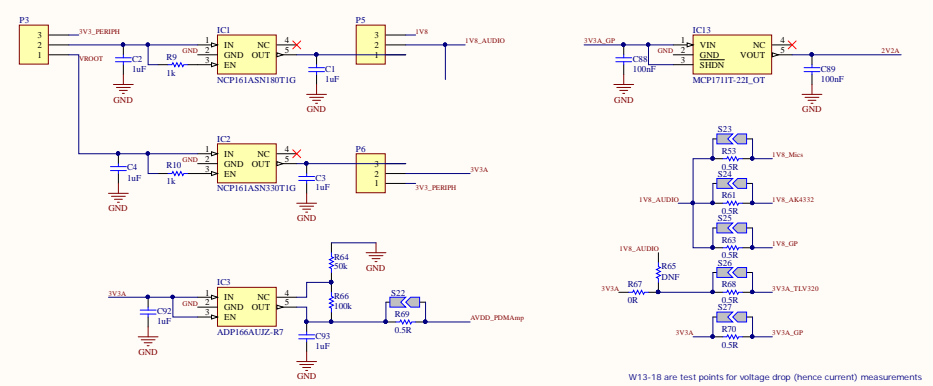


EDGE HEADERS



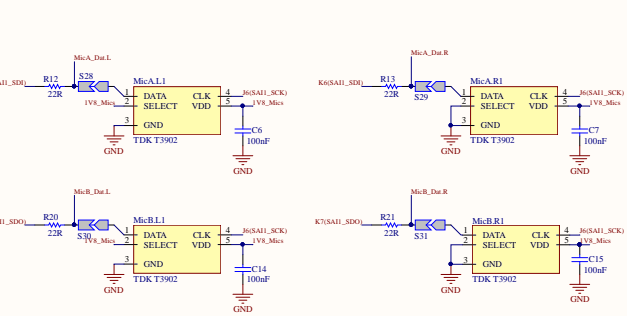
POWER MANAGEMENT

Inputs to Audio Add-On are 1V8 (always on, from LDO or buck DC-DC on GAP9_EVK), 3V3_PERIPH (switchable), VROOT (always on, direct from battery/ext'l supply)



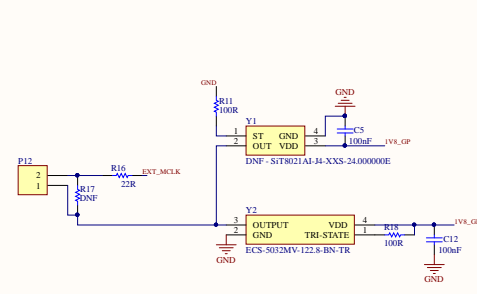
ON-BOARD PDM MICS

DNF / Remove / disconnect (remove 22R below) if using external PDM mic son SAI1 headers (P1, P2, P7, P8 above)

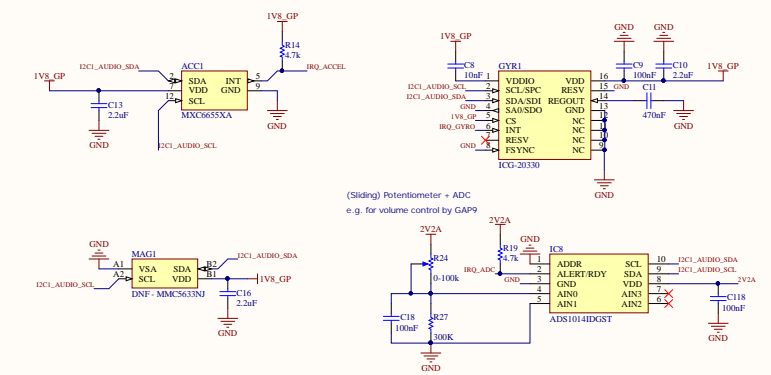


OPTIONAL CLOCK GEN.

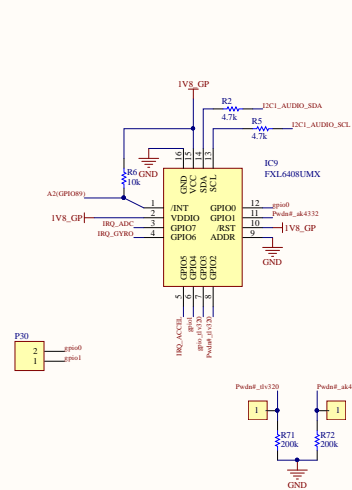
May use up to 24.576MHz



MOTION SENSORS AND UI

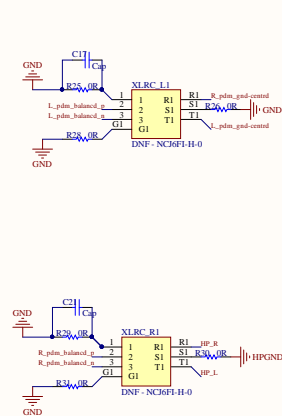
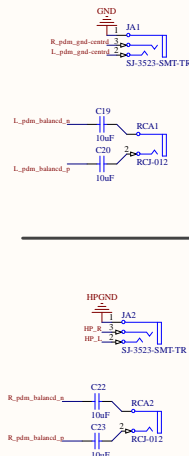


GPIO EXPANDER



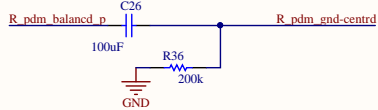
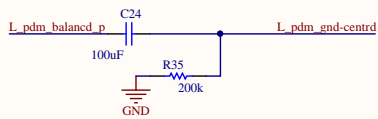
AUDIO OUTPUTS

- One 3.5mm stereo jack for each of the 2 possible audio out paths (AK43332/Minimal Latency PDMamp)
- 2 RCA outputs for L+R balanced (diffT) outputs from Minimal Latency PDMamp
- Optional (not fitted by default as quite bulky) XLR+-6.35mm jack Combo - assy option bottom side

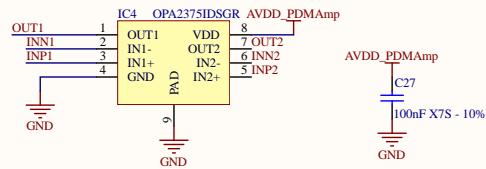


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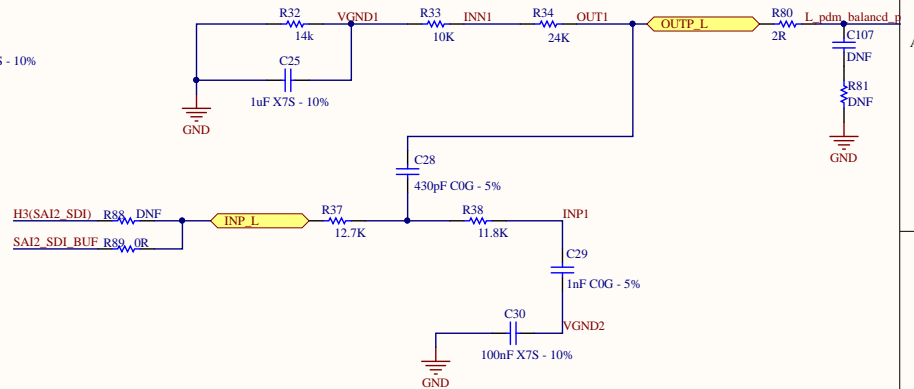
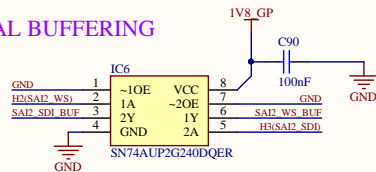
Diff to Single - GND-Ref'd conversion



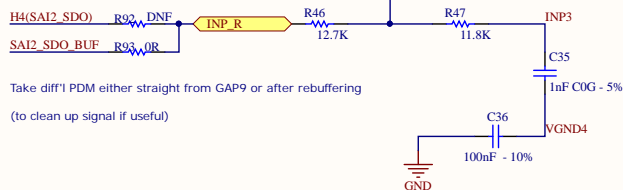
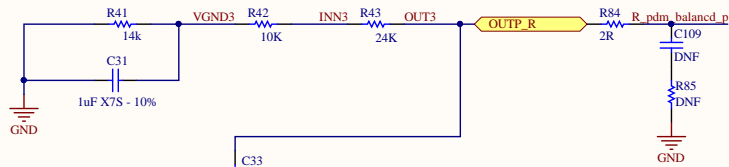
DIFFERENTIAL INPUT LEFT



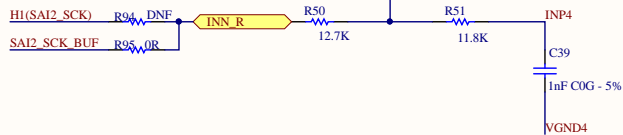
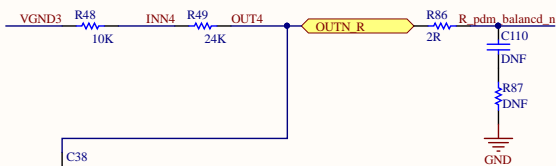
OPTIONAL BUFFERING



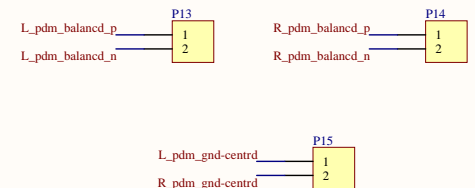
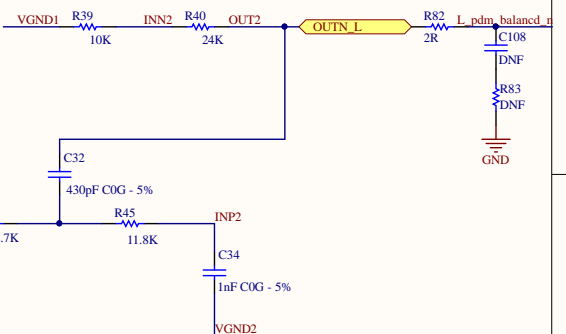
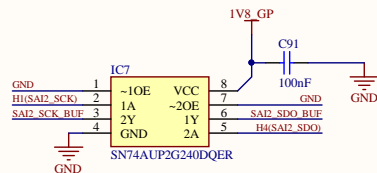
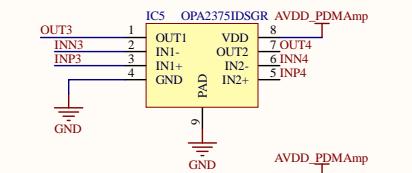
DIFFERENTIAL INPUT RIGHT



Take diff'l PDM either straight from GAP9 or after rebuffering
(to clean up signal if useful)



OPTIONAL INPUT BUFFERING



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