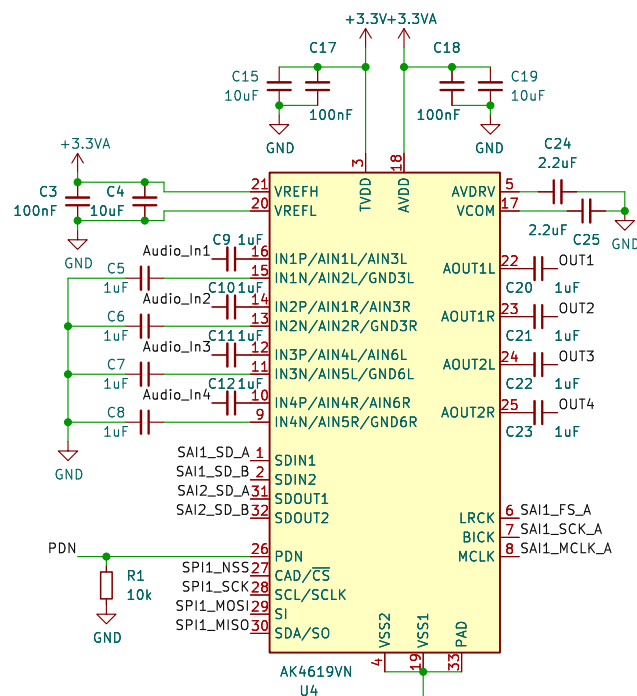
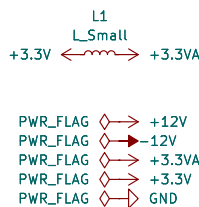
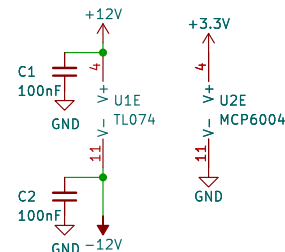
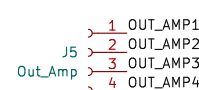
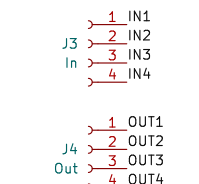
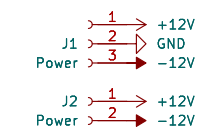
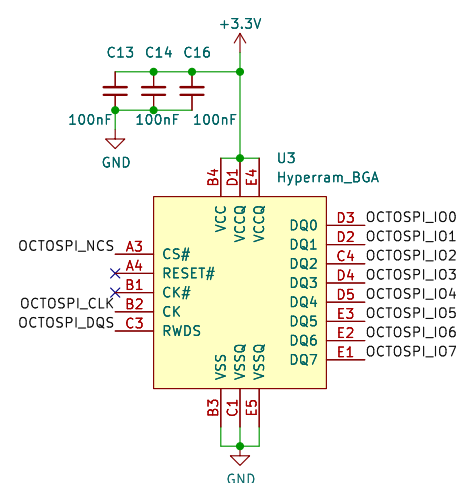


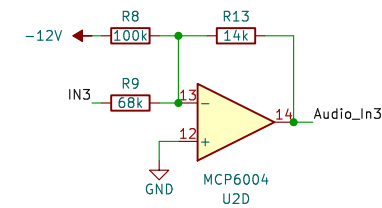
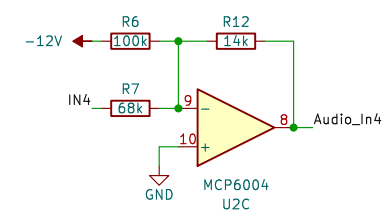
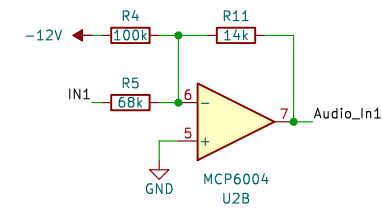
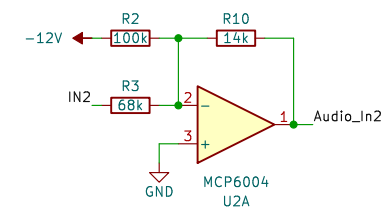
Nucleo Connectors



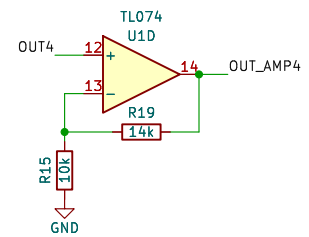
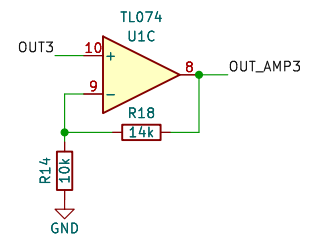
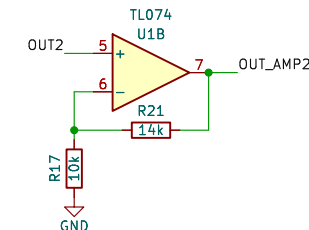
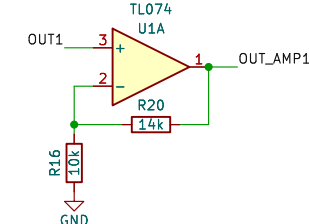
Audio DAC



HyperRAM



$A_v = -R_{FB} / R_{IN}$
 Input: +7V,
 Output: $(-12 * -14k/100k) + (+7 * 14k/68k) = 0.24V$
 Input: -7V
 Output: $(-12 * -14k/100k) + (-7 * 14k/68k) = 3.12V$



DAC Output is 2.83V_{pp}
10k/14k gives gain of $2.4 \times 2.83 = 6.8\text{V}$

Input/Output OpAmps

Mountjoy Modular

Sheet: /

File: _autosave-working.kicad_sch

Title: AK4619 STM32H563 Dev Board

Size: USLegal	Date: 2023-08-23
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Size: 65496	Date: 2023
KiCad E.D.A.	eeschema 7.0.6

Rev: 1.0

Id: 1/1