Arithmetic Module

8bit Arithmetic Module provides ADD, ADC, SUB, SBB, INC, DEC

DEC A: MUX_SEL: 1, TC: 0, CI: 0

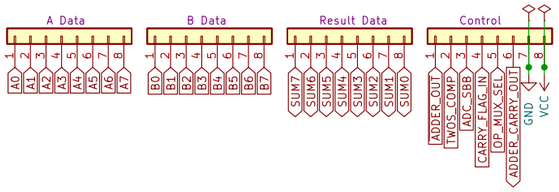
A – B: MUX_SEL: 0, TC: 1, CI: 1

A + B: MUX_SEL: 0, TC: 0, CI: 0

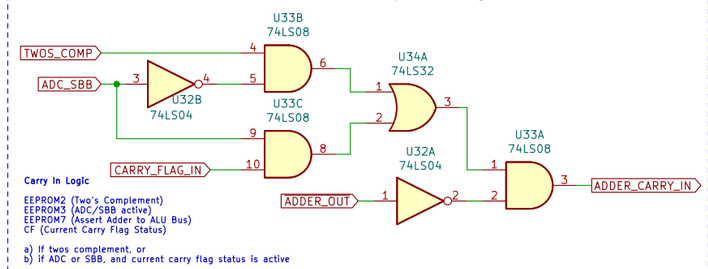
INC A: MUX_SEL: 1, TC: 1, CI: 1

A – B – CI: MUX_SEL: 0, TC: 1, CI: ?
A + B + Cf: MUX_SEL: 0, TC: 0, CI: ?

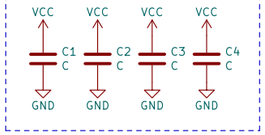
Connectors



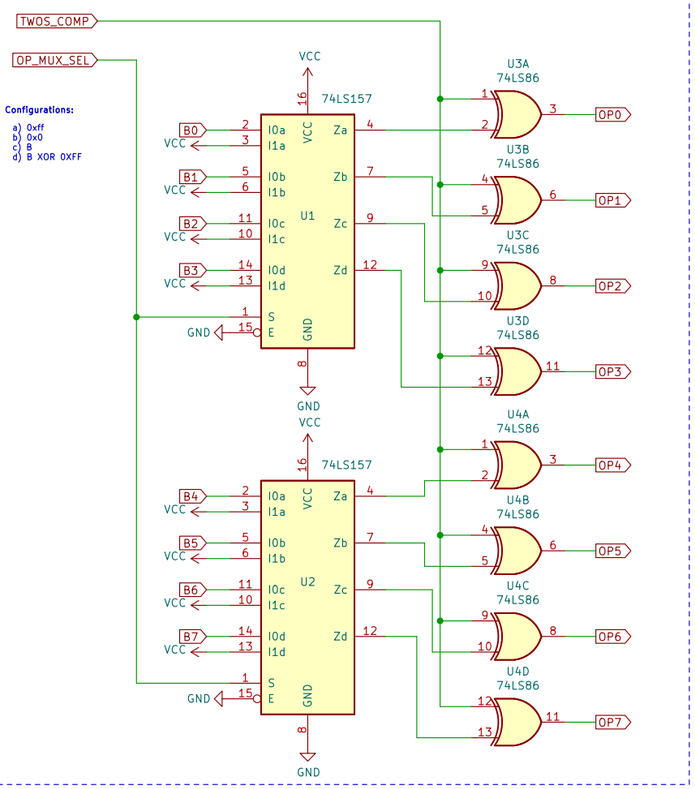
Arithmetic Carry In Logic



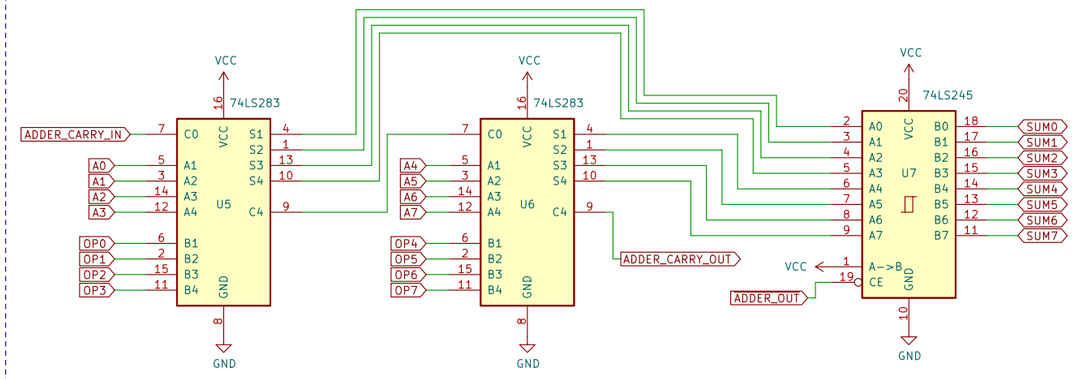
Smoothing Caps



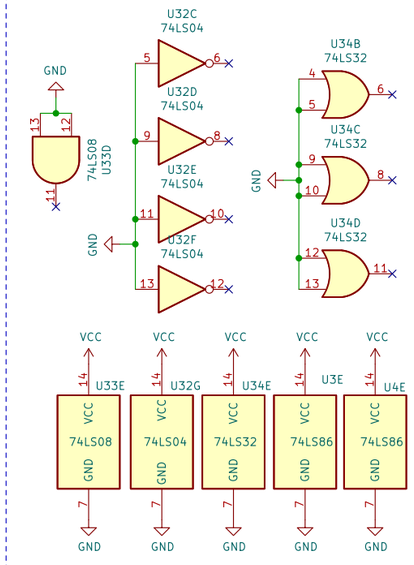
Operand Multiplexer



Full Adder w/ Carry



Logic Power



ADD / SUB / ADC / SBB / INC / DEC

Sheet: /
File: Arithmetic.kicad_sch

Title: Arithmetic Module

Size: A3	Date:	**Rev: 3**
KiCad E.D.A. kicad (6.0.0-0)		Id: 1/1