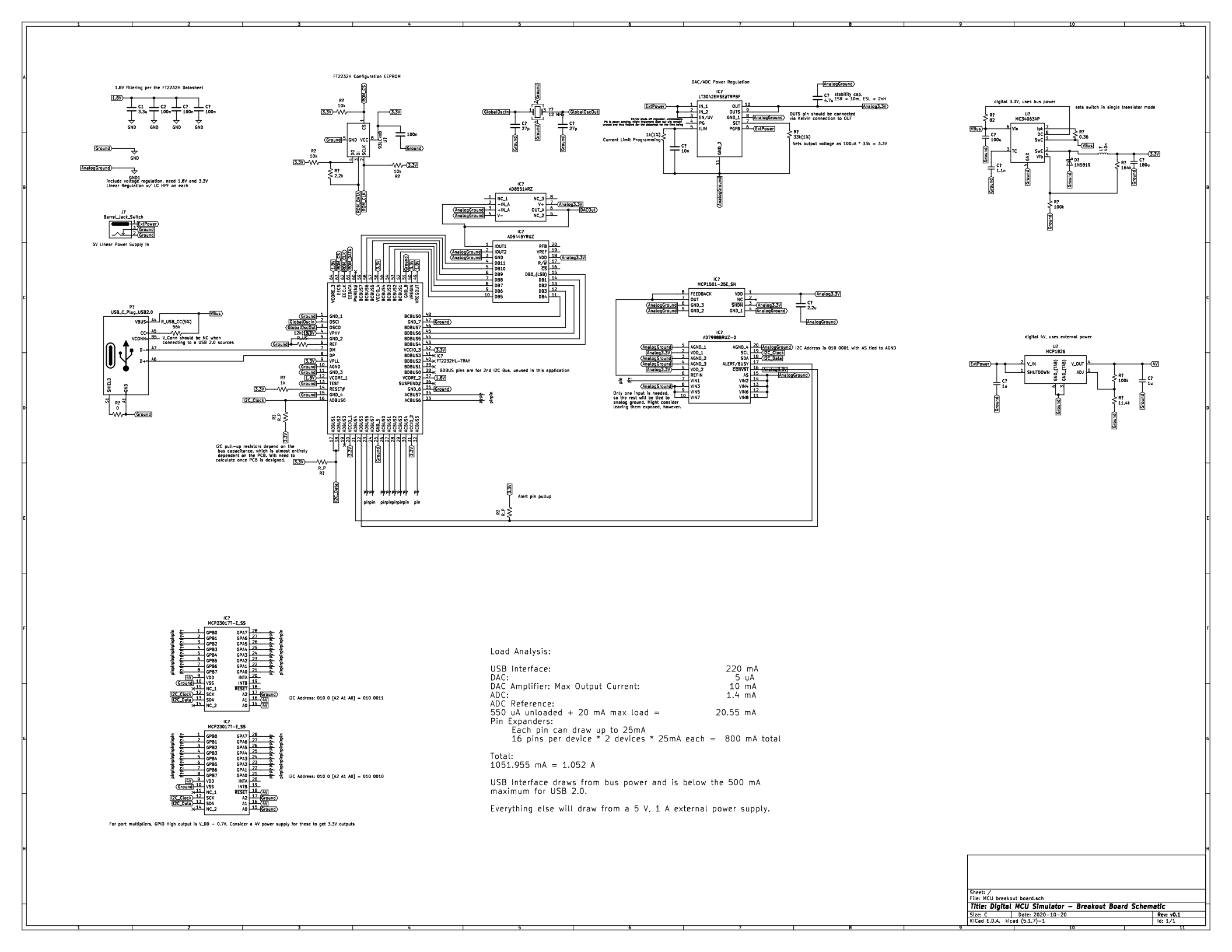

Load Analysis:

USB Interface:	220 mA
DAC:	5 uA
DAC Amplifier: Max Output Current:	10 mA
ADC:	1.4 mA
ADC Reference:	
550 uA unloaded + 20 mA max load =	20.55 mA
Pin Expanders:	
Each pin can draw up to 25mA	
16 pins per device * 2 devices * 25mA each =	800 mA total

Total:
1051.955 mA = 1.052 A

USB Interface draws from bus power and is below the 500 mA maximum for USB 2.0.

Everything else will draw from a 5 V, 1 A external power supply.

Sheet: /	
File: MCU breakout board.sch	
Title: Digital MCU Simulator — Breakout Board Schematic	
Size: C	Date: 2020-10-20
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