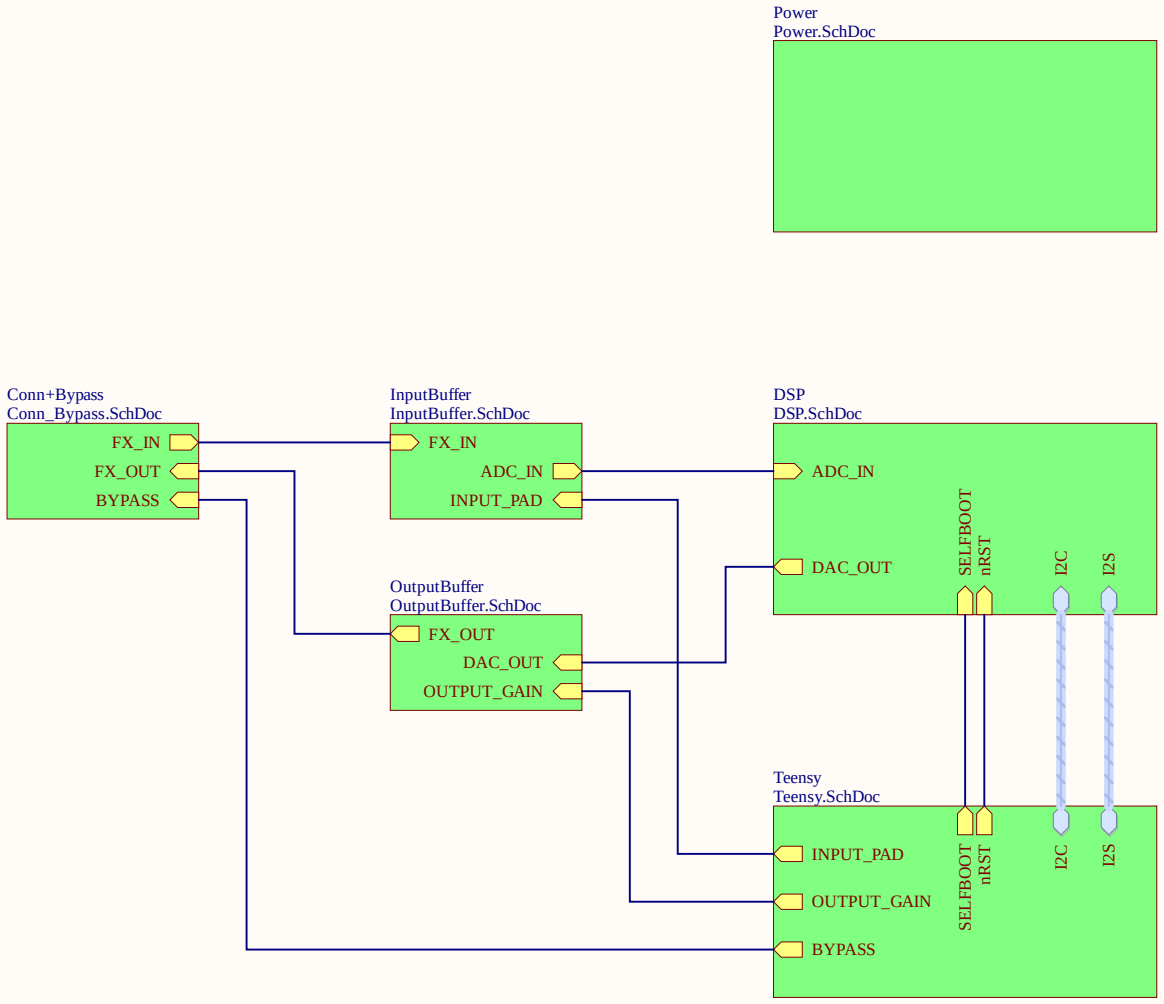
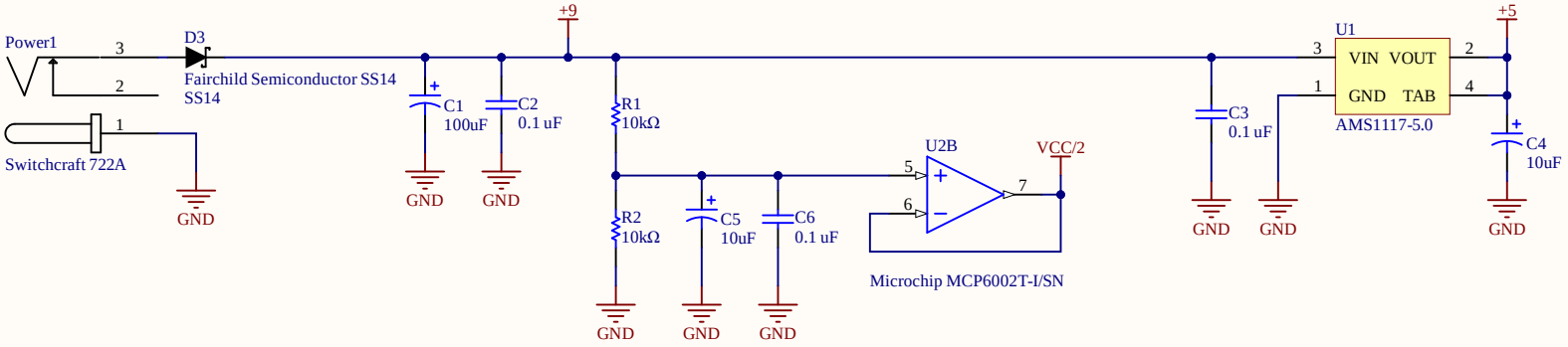
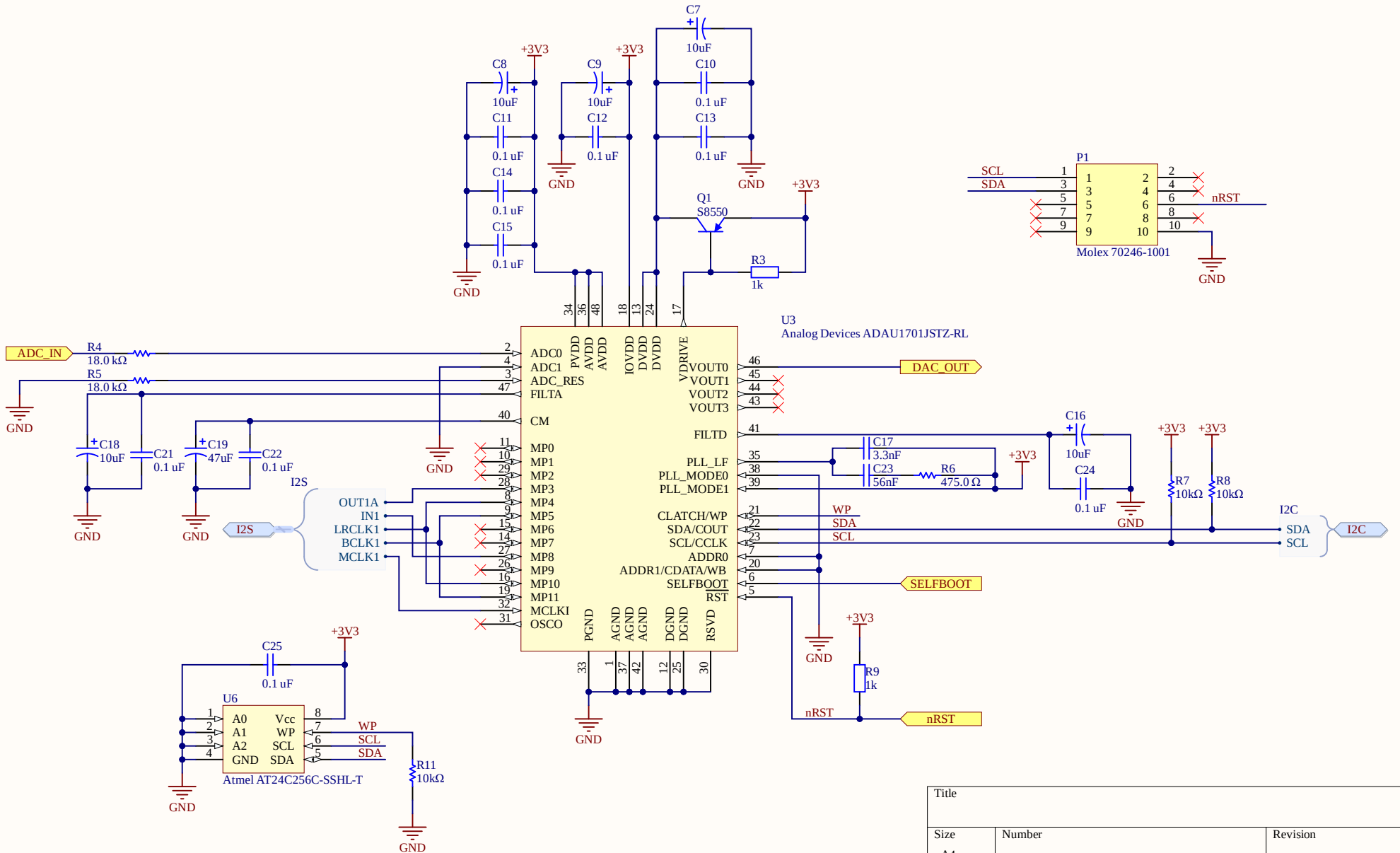


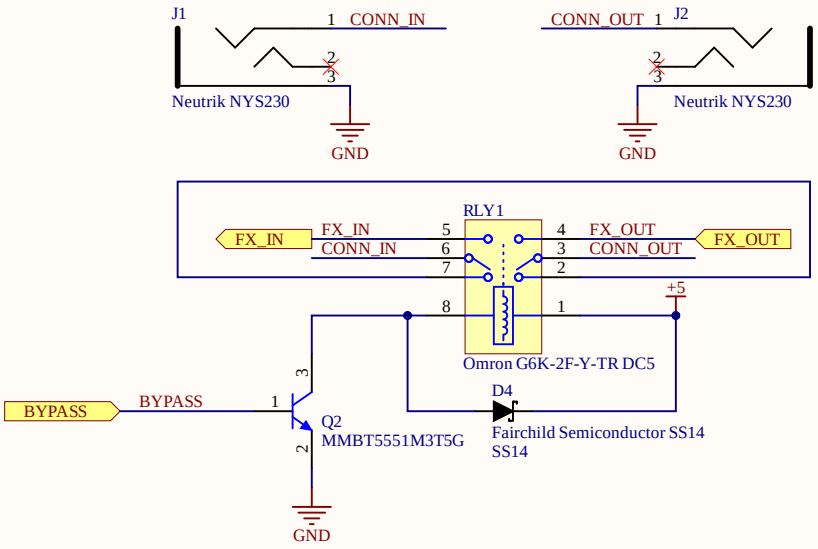
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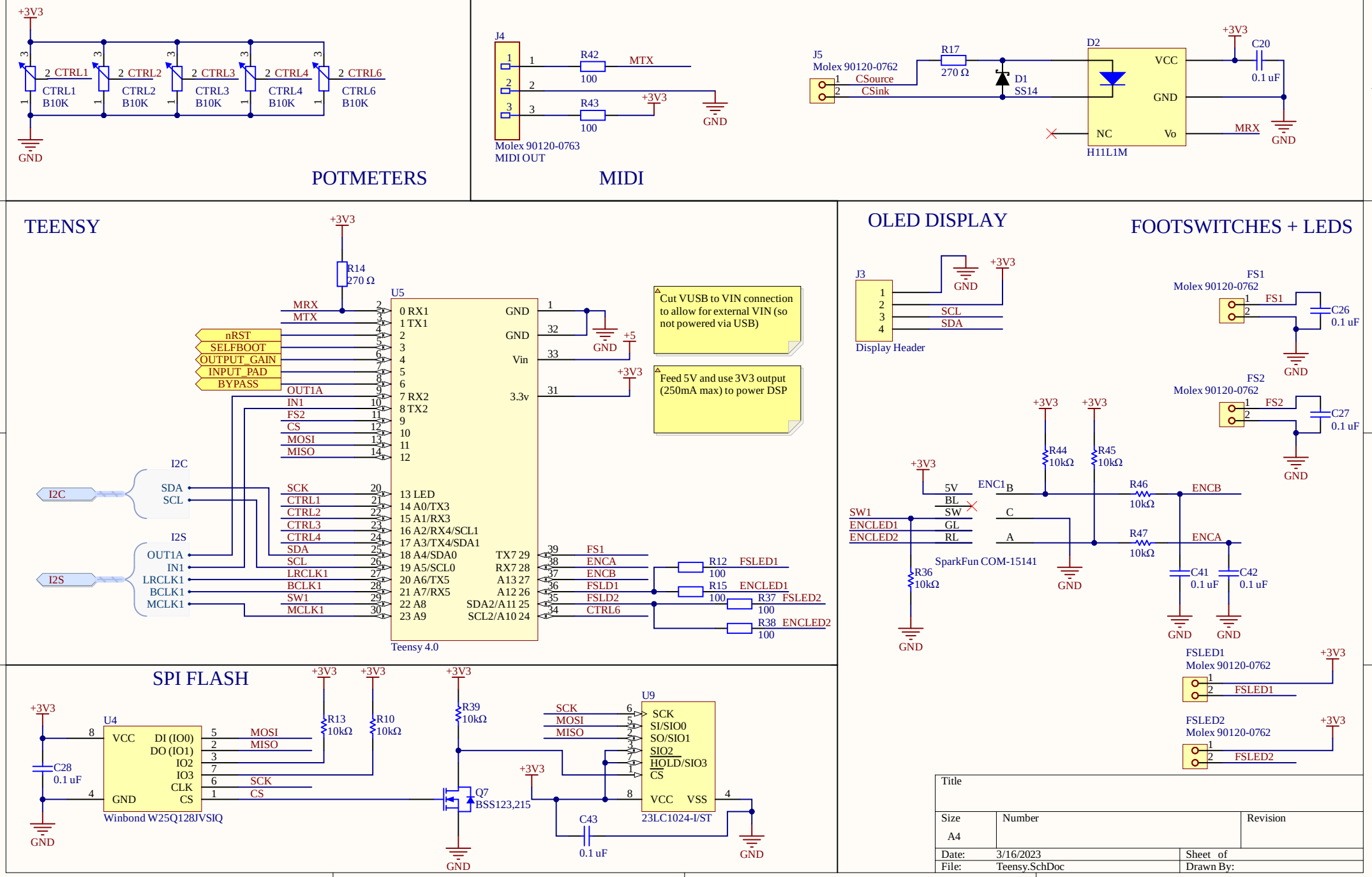
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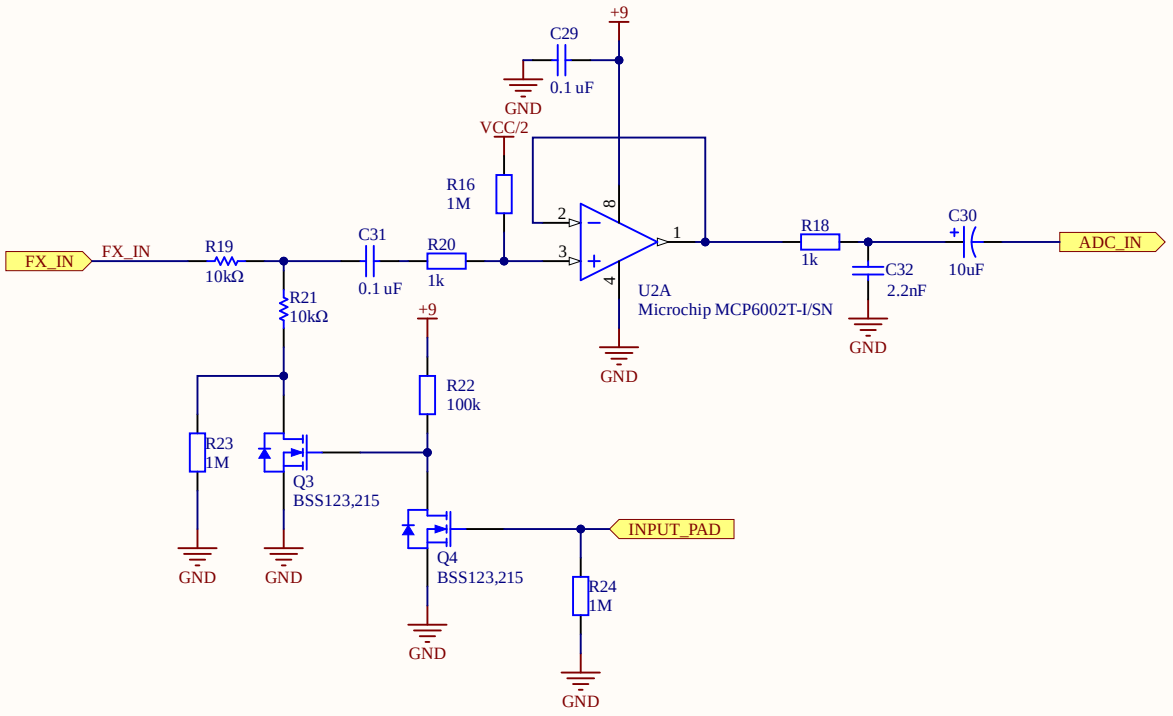


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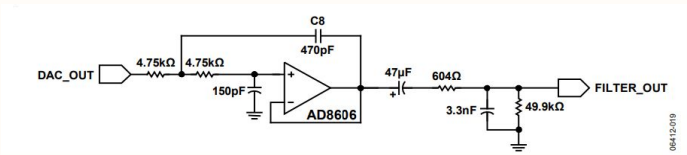


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POTMETERS
MIDI
TEENSY
OLED DISPLAY
FOOTSWITCHES + LEDS
SPI FLASH
+3V3
GND
2 CTRL1
2 CTRL2
2 CTRL3
2 CTRL4
2 CTRL6
CTRL1 B10K
CTRL2 B10K
CTRL3 B10K
CTRL4 B10K
CTRL6 B10K
J4
Molex 90120-0763
MIDI OUT
R42 100
R43 100
MTX
J5
Molex 90120-0762
CSource
CSink
R17 270 Ω
D1 SS14
D2
H11L1M
VCC
GND
NC
Vo
C20 0.1 uF
MRX
R14 270 Ω
U5
Teensy 4.0
MRX
MTX
nRST
SELFBOOT
OUTPUT_GAIN
INPUT_PAD
BYPASS
OUT1A
IN1
FS2
CS
MOSI
MISO
SCK
CTRL1
CTRL2
CTRL3
CTRL4
SDA
SCL
LRCLK1
BCLK1
SW1
MCLK1
I2C
SDA
SCL
I2S
OUT1A
IN1
LRCLK1
BCLK1
MCLK1
Cut VUSB to VIN connection to allow for external VIN (so not powered via USB)
Feed 5V and use 3V3 output (250mA max) to power DSP
FS1
ENCA
ENCB
FSLD1
FSLD2
CTRL6
ENCLED1
ENCLED2
R12 FSLED1 100
R15 ENCLED1 100
R37 FSLED2 100
R38 ENCLED2 100
J3
Display Header
SCL
SDA
FS1
Molex 90120-0762
C26 0.1 uF
FS2
Molex 90120-0762
C27 0.1 uF
R44 10kΩ
R45 10kΩ
R46 10kΩ
R47 10kΩ
ENC1
5V
BL
SW
GL
RL
A
B
C
SparkFun COM-15141
R36 10kΩ
C41 0.1 uF
C42 0.1 uF
FSLED1
Molex 90120-0762
FSLED2
Molex 90120-0762
U4
Winbond W25Q128JVSIQ
VCC
GND
DI (IO0)
DO (IO1)
IO2
IO3
CLK
CS
MOSI
MISO
SCK
CS
C28 0.1 uF
R13 10kΩ
R10 10kΩ
R39 10kΩ
Q7
BSS123,215
U9
23LC1024-I/ST
SCK
SI/SIO0
SO/SIO1
SIO2
HOLD/SIO3
CS
VCC
VSS
C43 0.1 uF
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C33
470pF
DAC_OUT
DAC_OUT
R26
4.75k
R27
4.75k
C37
150pF
GND
U7B
Microchip MCP6002T-I/SN
C35
10uF
R29
604.0 Ω
VCC/2
R25
49.9k
C38
3n3
GND
+9
C34
0.1 uF
GND
U7A
Microchip MCP6002T-I/SN
GND
C36
10uF
R28
100
FX_OUT
FX_OUT
R30
100k
GND
+9
R31
56.0 kΩ
C39
47p
R32
100k
R33
150 kΩ
Q5
BSS123,215
R34
100k
OUTPUT_GAIN
Q6
BSS123,215
C40
10uF
R35
100k
GND
GND
GND

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