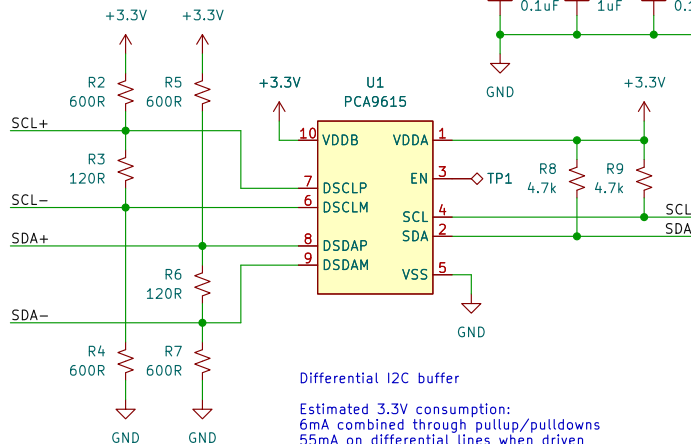
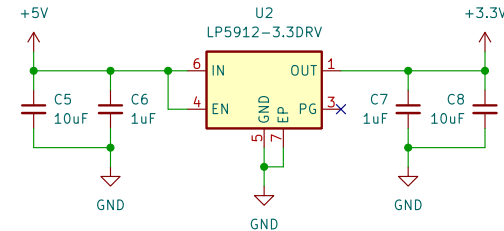


600Ω and 120Ω as recommended by the datasheet for CAT5 (100Ω)



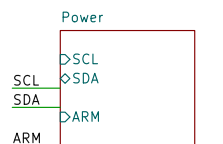
Differential I2C buffer

Estimated 3.3V consumption:
6mA combined through pullup/pulldowns
55mA on differential lines when driven



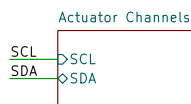
500mA output LDO

Interfacing (Differential I2C with C&C)



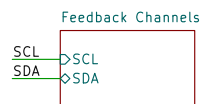
File: power.kicad_sch

~33mA 3.3V consumption



File: actuatorchannels.kicad_sch

~180mA 3.3V consumption



File: feedbackchannels.kicad_sch

~23mA 3.3V consumption

Subsheets

I2C addresses:
Actuator GPIO 1-8: 0x20
Actuator GPIO 9-16: 0x21
Feedback GPIO: 0x23
Current sense ADC: 0x48-0x4F

Cold-side Power Supply

Sheet: /

File: actuation.kicad_sch

Title:

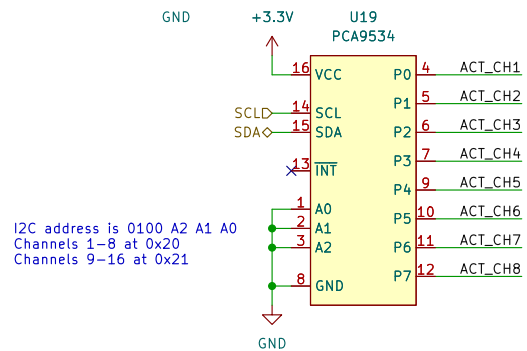
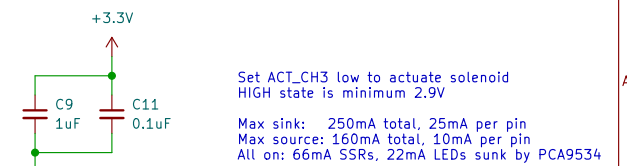
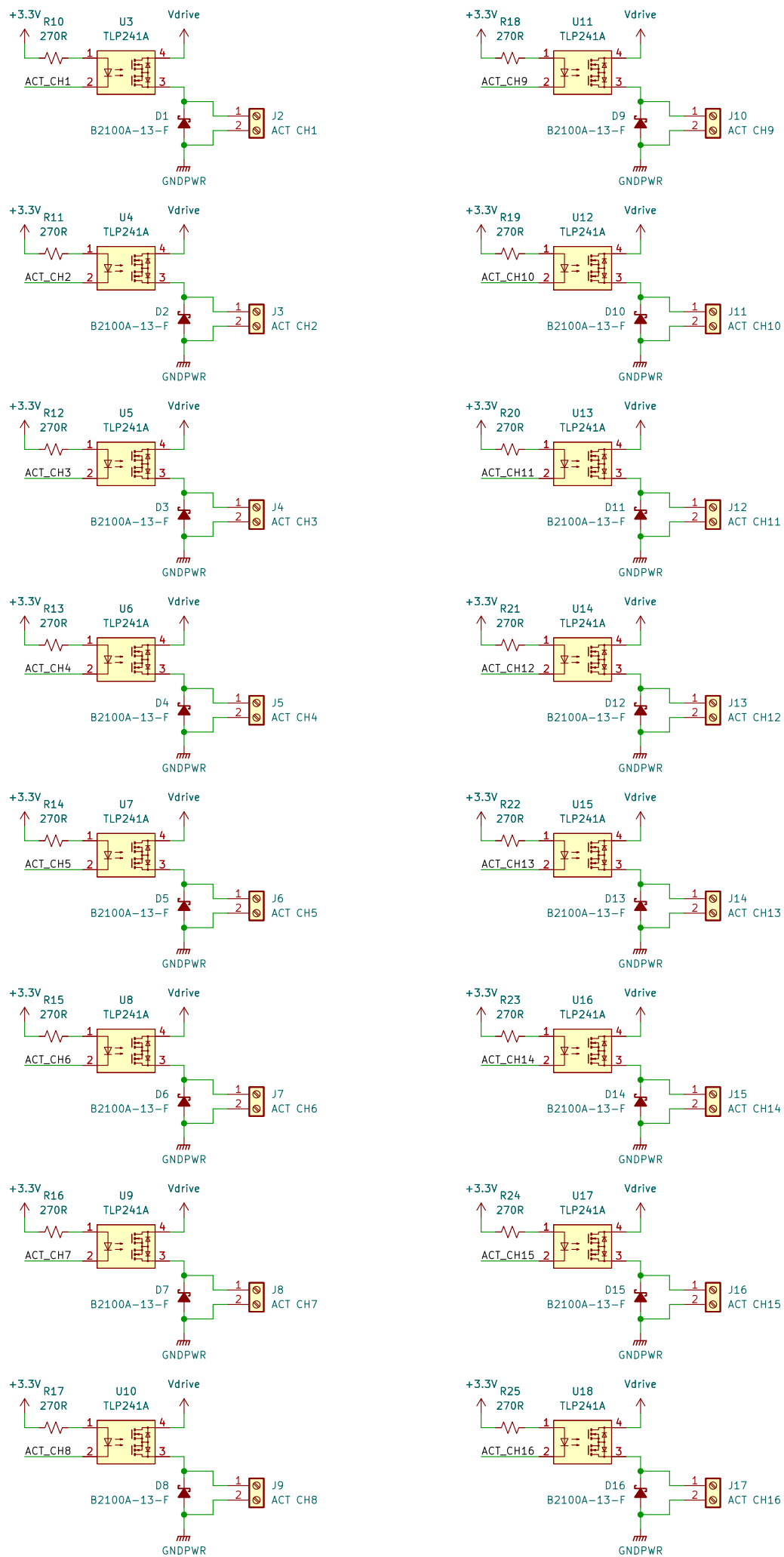
Size: User

Date:

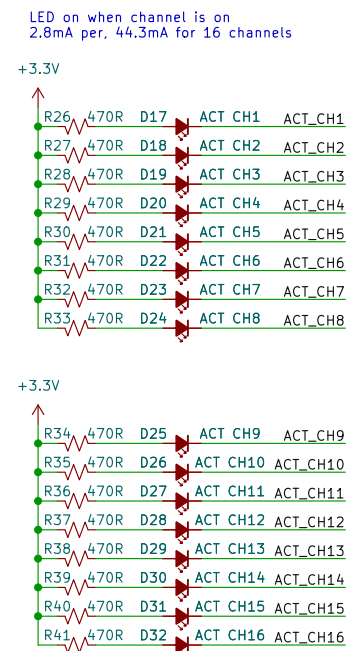
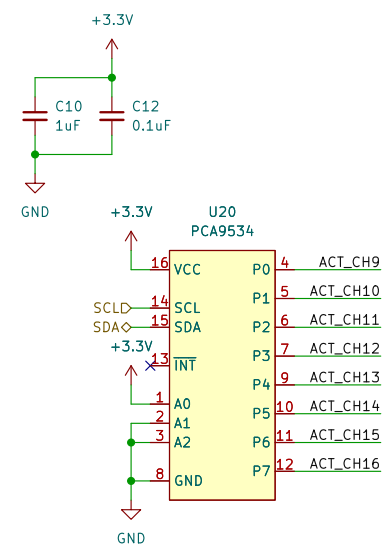
KiCad E.D.A. kicad (6.0.7-1)-1

Rev:

Id: 1/4



2x GPIO expanders for actuator control



Actuation SSRs

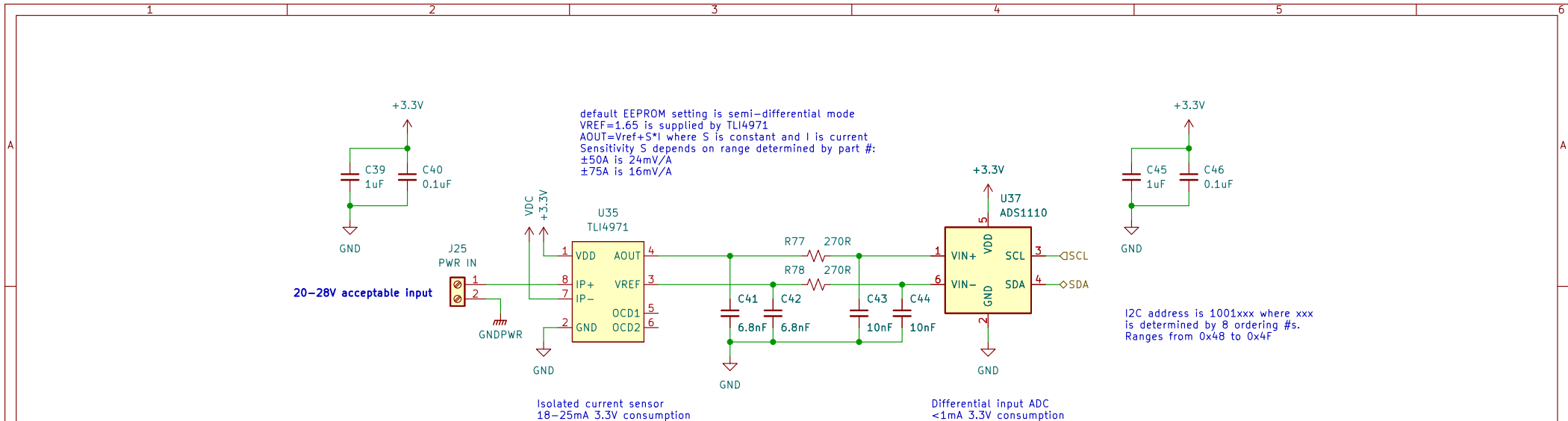
Actuation Logic

Sheet: /Actuator Channels/
File: actuatorchannels.kicad_sch

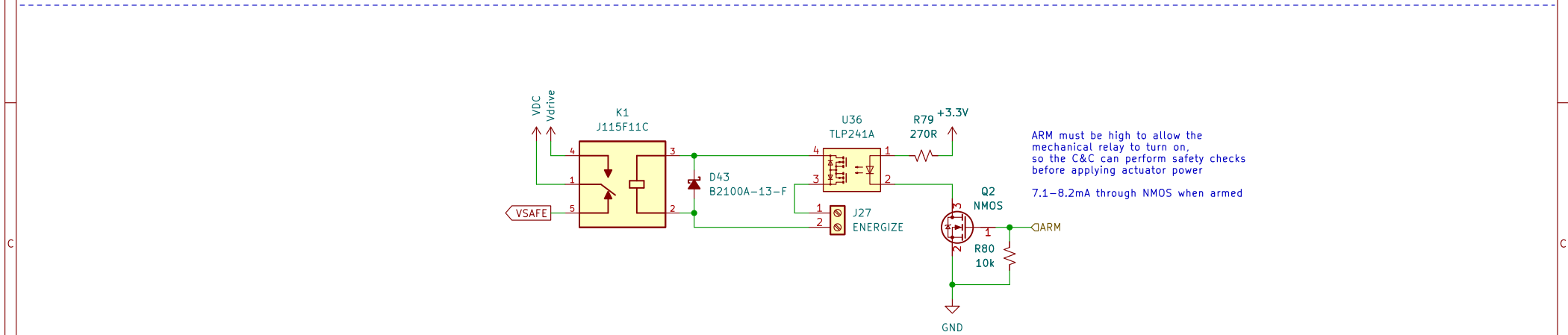
Title:

Size: User	Date:
KiCad E.D.A. kicad (6.0.7-1)-1	

Rev:
Id: 2/4



Power In and Current Sense



Safing Relay and Arming Logic

