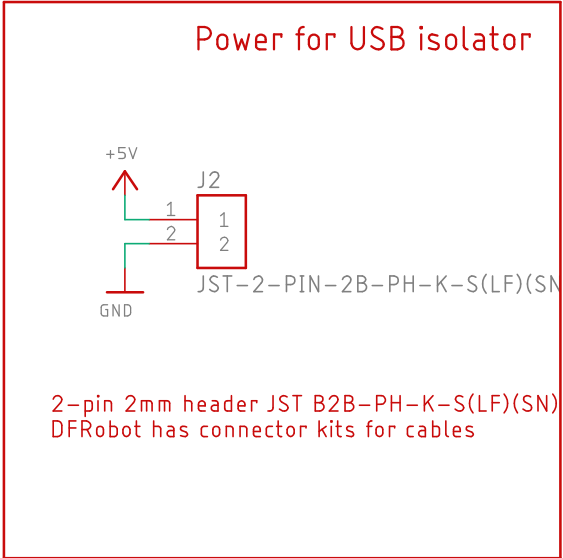
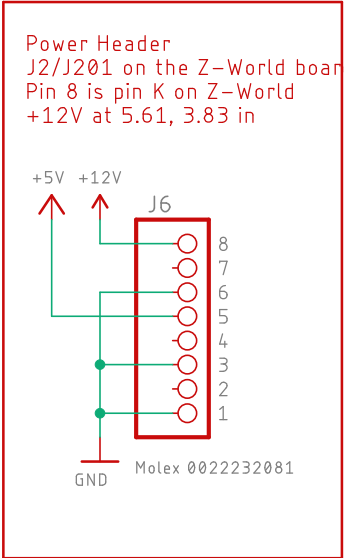
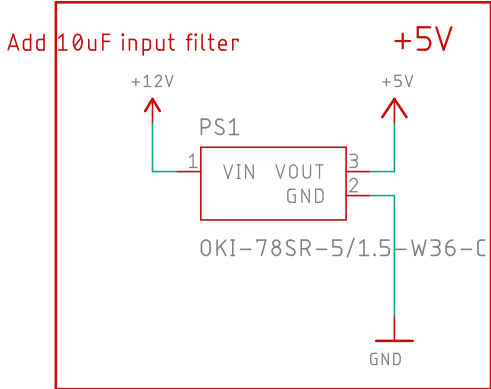
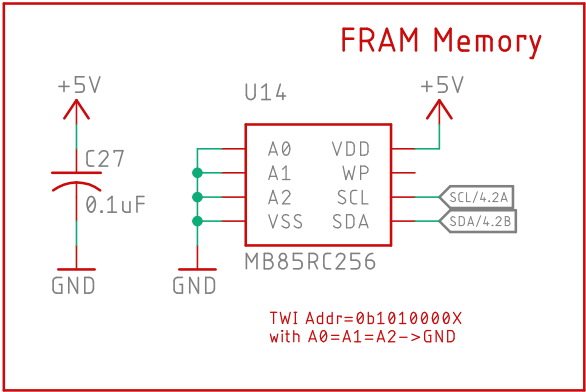
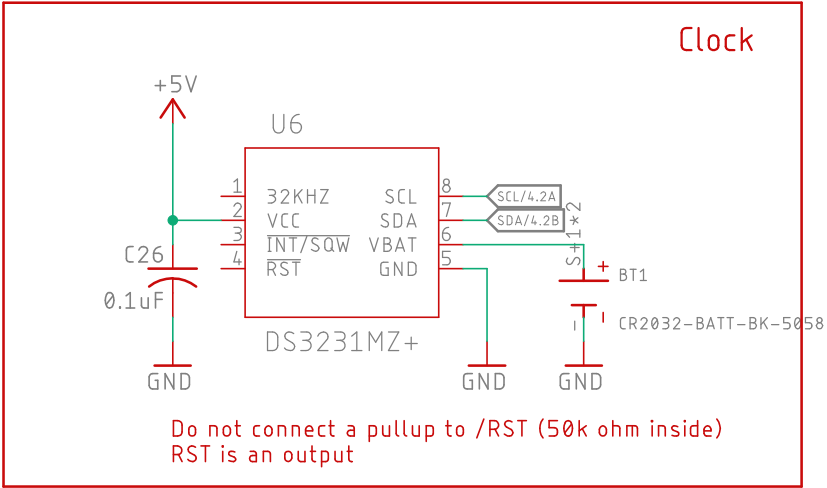
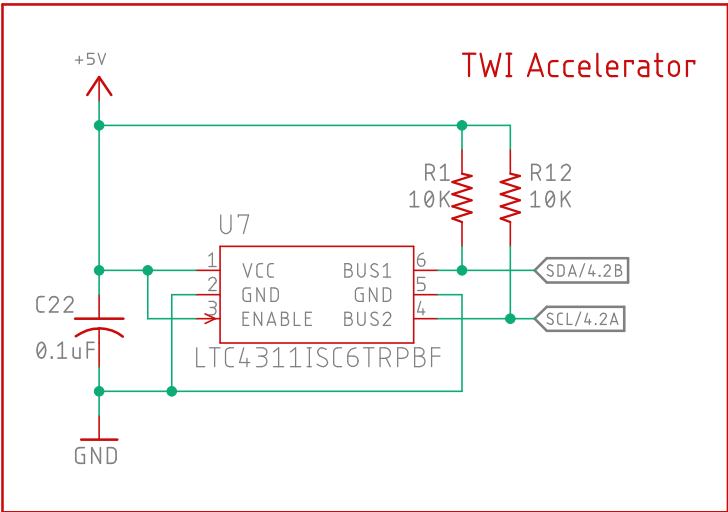
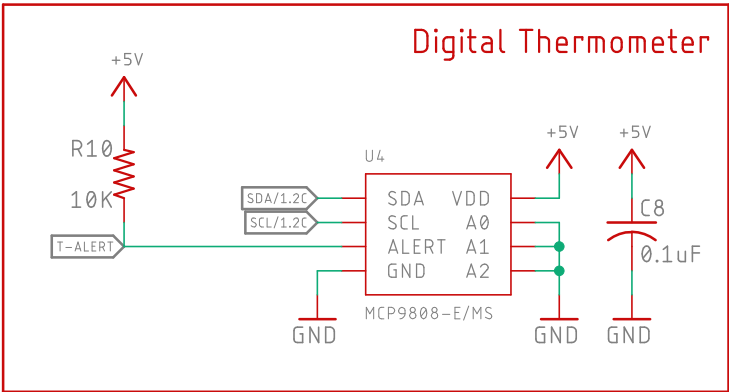
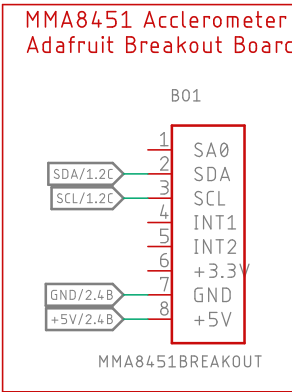


	1	2	3	4	5	6
A						
B						
C						
D						
E						

A +3.3V DC-DC Converter is also provided near the Lantronix EtherNET port.



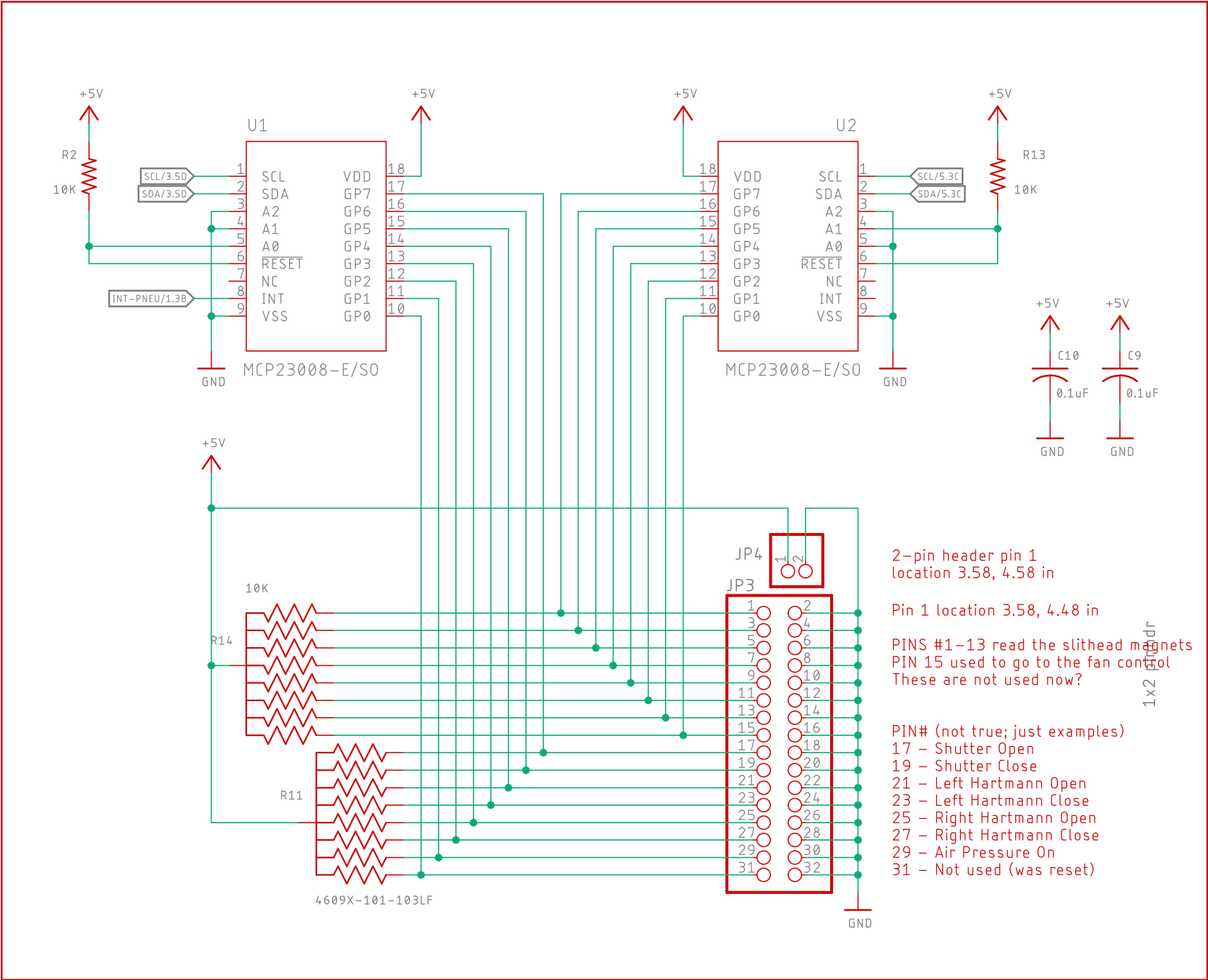
+5V Power Supply	
TITLE: specMech	
Document Number:	REV:
Date: 12/15/2020 7:27 AM	Sheet: 2/9



On-board miscellaneous peripherals

TITLE: specMech

Document Number: REV:



2x18 pinhdr

2-pin header pin 1
location 3.58, 4.58 in

Pin 1 location 3.58, 4.48 in

PINS #1-13 read the slithead magnets
PIN 15 used to go to the fan control
These are not used now?

1x2 pinhdr

PIN# (not true; just examples)
17 - Shutter Open
19 - Shutter Close
21 - Left Hartmann Open
23 - Left Hartmann Close
25 - Right Hartmann Open
27 - Right Hartmann Close
29 - Air Pressure On
31 - Not used (was reset)

Parallel I/O Port

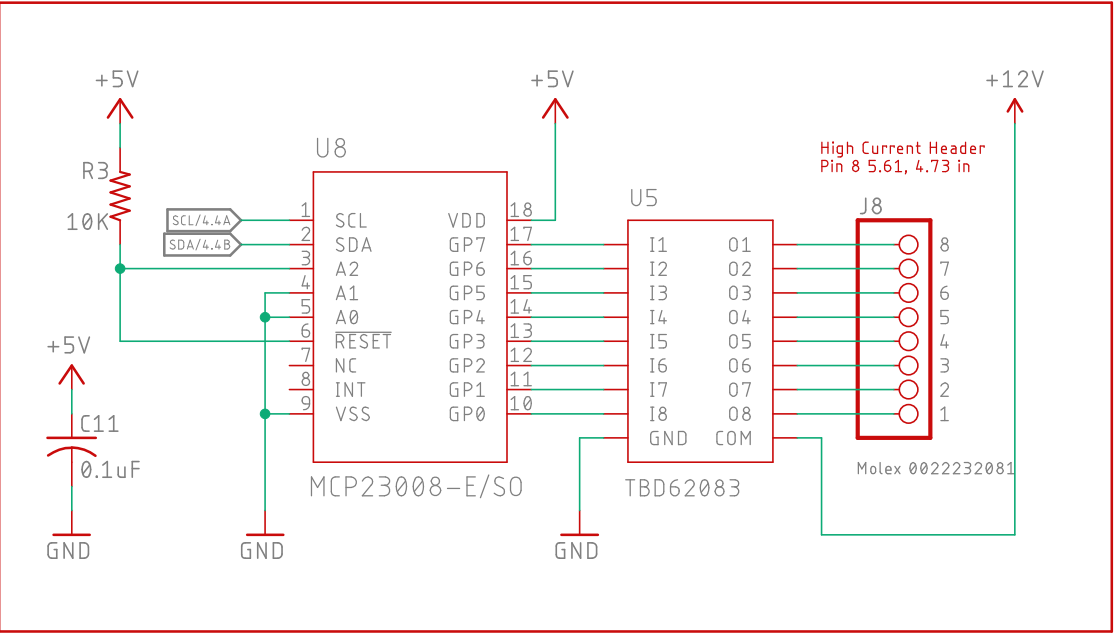
TITLE: specMech

Document Number:

REV:

Date: 12/15/2020 7:27 AM

Sheet: 4/9

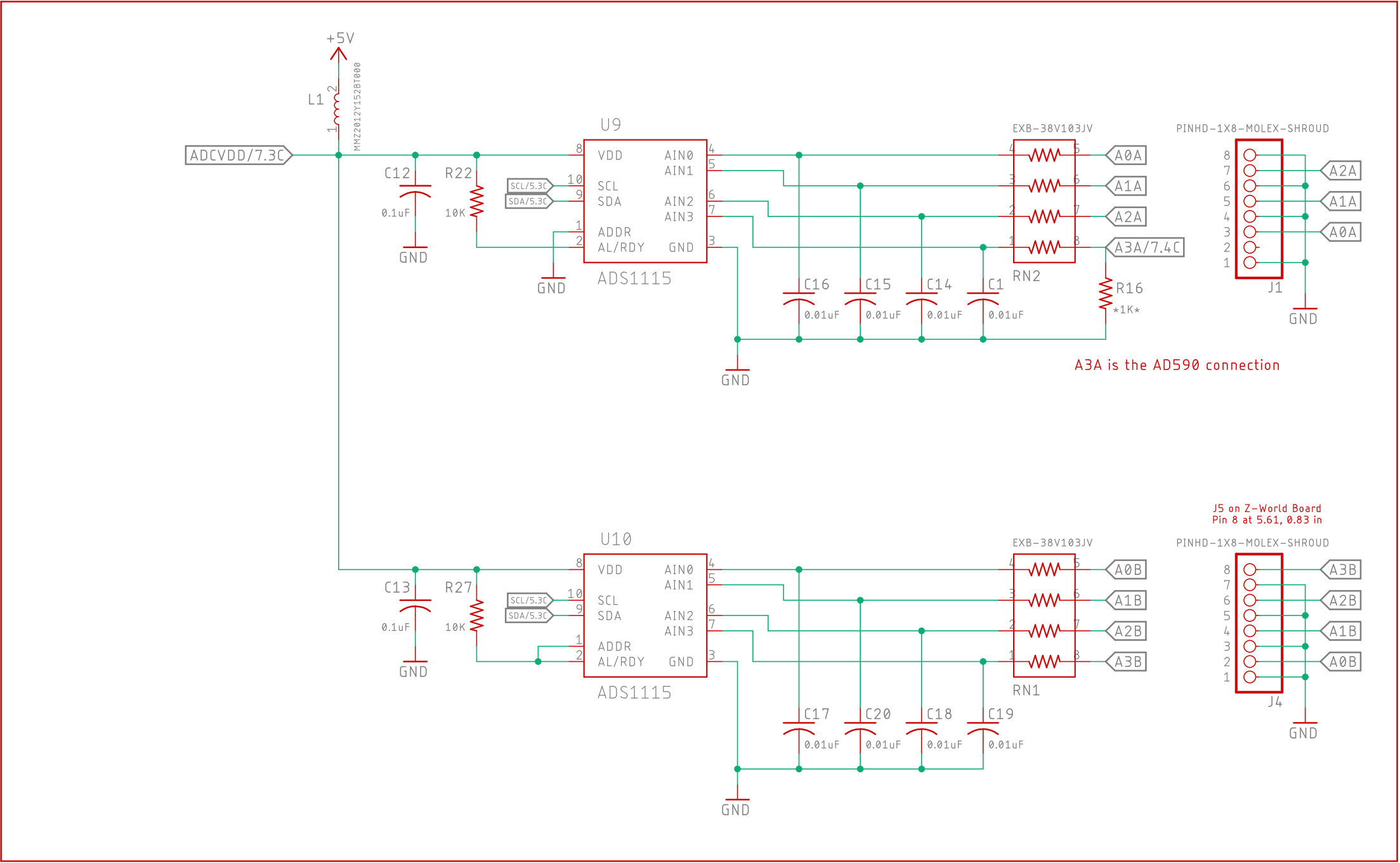


High Current Driver Select

TITLE: specMech

Document Number: REV:

Date: 12/15/2020 7:27 AM Sheet: 5/9

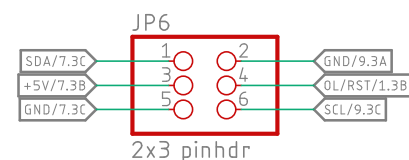


1K resistor is low TCR resistor

ADS1115 VDD bypass cap should be MLCC type with low ESR & low ESL

ADC ADS1115	
TITLE: specMech	
Document Number:	REV:
Date: 12/15/2020 7:27 AM	Sheet: 6/9

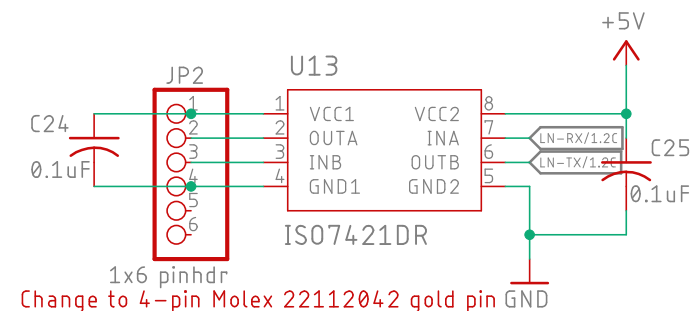
Header to OLED display board on front panel (TWI)



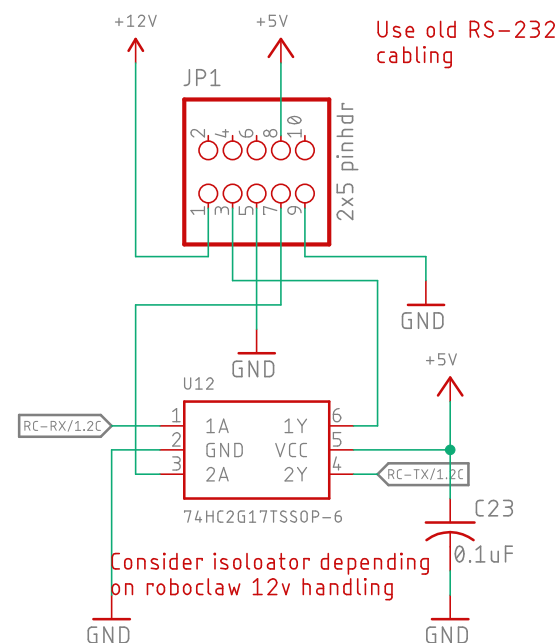
Newhaven NHD-0216AW-1B3 2x16 OLED Display.
VDD_SEL must be NC for +5VDC operation.
SA0 = address pin (LOW->3C, HIGH->3D).

Use Amphenol 68685-307LF receptacle as a socket for temporary use.

LN2 Controller Comm



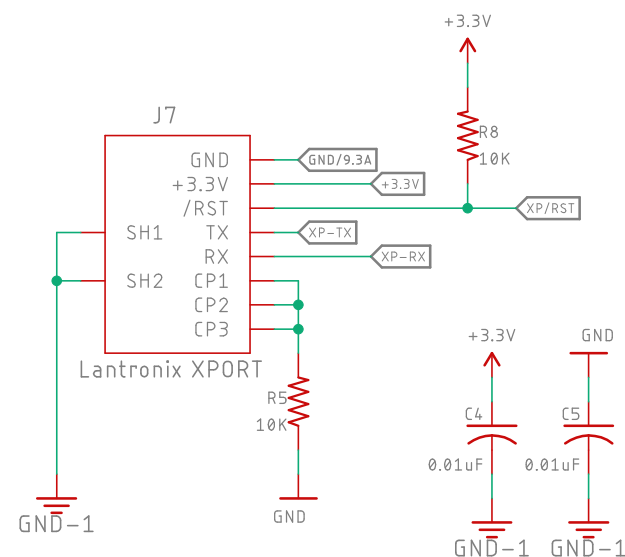
Collimator Motor Power & Comm



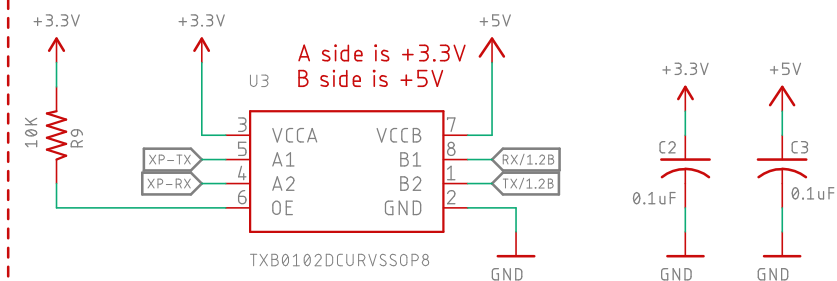
EtherNET Interface:

Lantronix XPORT for EtherNET to serial
TI TXB0102 3.3V to 5V Level Shifter
CUI P7805-Q24-S3-S DC-DC Converter

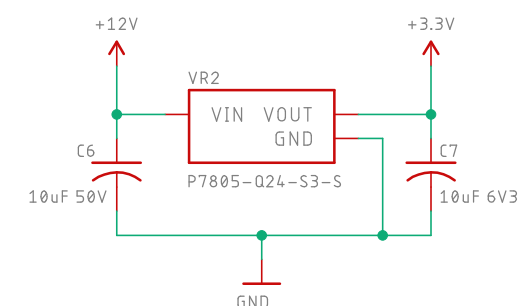
Lantronix XPORT



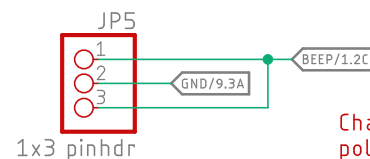
Level Shifter



+3.3V



Beeper



Change to 2-pin polarized header

Off-board Interfaces

TITLE: specMech

Document Number:

REV:

Date: 12/15/2020 7:27 AM

Sheet: 8/9

