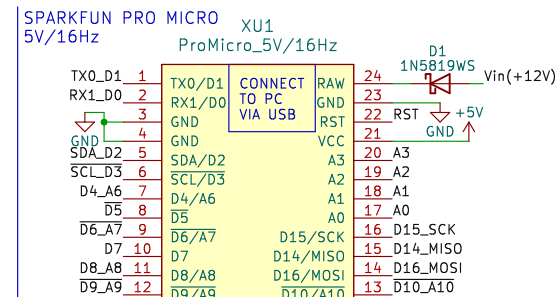
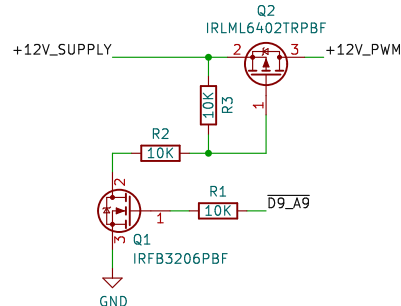
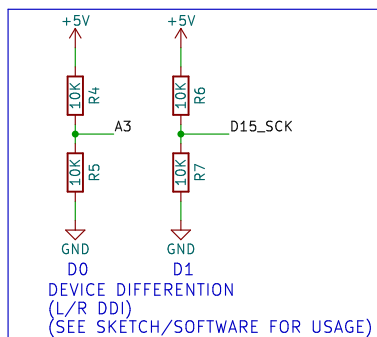
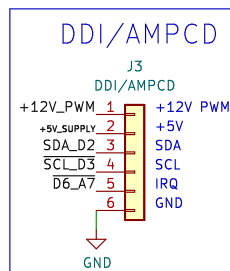


1) RS485 BUS TERMINATION: DO NOT INSTALL J2 (BUS OUT) CONNECTOR AND ADD A 120Ω THRU-HOLE RESISTOR ACROSS PINS 4&5 OF J2(BUS OUT) ON LAST ABSIS ALE OF RS485 BUS.

- 2) FOR ARDUINO PRO MICRO PROGRAMMING VIA USB: MAY BE PROGRAMMED IN-CIRCUIT.
- 3) THE RAW POWER PIN ON THE PRO MICRO AND +12V_SUPPLY ARE TIED TOGETHER.
IF THE PRO MICRO BOARD IS POWERED VIA USB, THE VOLTAGE AT THIS PIN IS ABOUT 4.8V
- 4) THIS PCB IS DESIGNED TO CONTROL BOTH THE DDI AND AMPCD:
 - A) FOR CONNECTION TO DDI, CONNECT BR SW TO J4, CONT TO J5, AND TOP ROTARY TO J6.
 - B) FOR CONNECTION TO AMPCD, CONNECT CRS TO J4, HDG TO J5, AND TOP ROTARY TO J7.
- 5) WARNING: J6 OR J7 MAY ONLY BE USED ONE AT A TIME.
- 6) IF PCB IS POWERED VIA ABSIS BUS (I.E. PRO-MICRO IS POWERED VIA RAW PIN INSTEAD OF USB) THEN DESOLDER/REMOVE F1 FUSE ON PRO-MICRO AND ENSURE JP1 JUMPER ON PRO-MICRO IS NOT BRIDGED/SOLDERED. FAILURE TO DO SO WILL RESULT IN POWER FROM ON BOARD VOLTAGE REGULATOR BACKFEEDING THE USB POWER LINE.

CAUTION: AFTER THIS MODIFICATION, THE PRO-MICRO CAN ONLY BE POWERED VIA THE RAW PIN. USB POWER WILL NOT BE AVAILABLE TO THE PRO-MICRO.

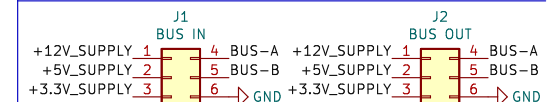


Package_DIP:DIP-24_W15.24mm_Socket

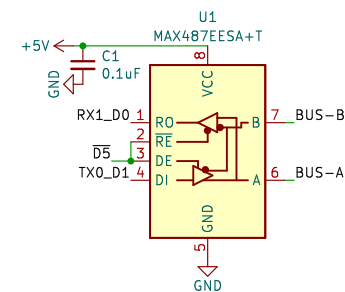
NOTE: IN ARDUINO CODE:
USE "SERIAL" FOR USB;
"SERIAL1" FOR TX/RX PINS.

MOUNTING HOLES	RESET JUMP PAD	PWR FLAGS

ABSIS BUS CONNECTORS



RS485 BUS CONTROLLER



LOGOS/SILKSCREENS



CC BY-NC-SA

OpenHornet

Sheet:

File: CONTROLLER_AMPCD DDI.kicad_sch

Title: DDI/AMPCD CONTROLLER

Size: A	Date: 2022-11-05
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KiCad E.D.A. eeschema 7.0.8

Rev: 4

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