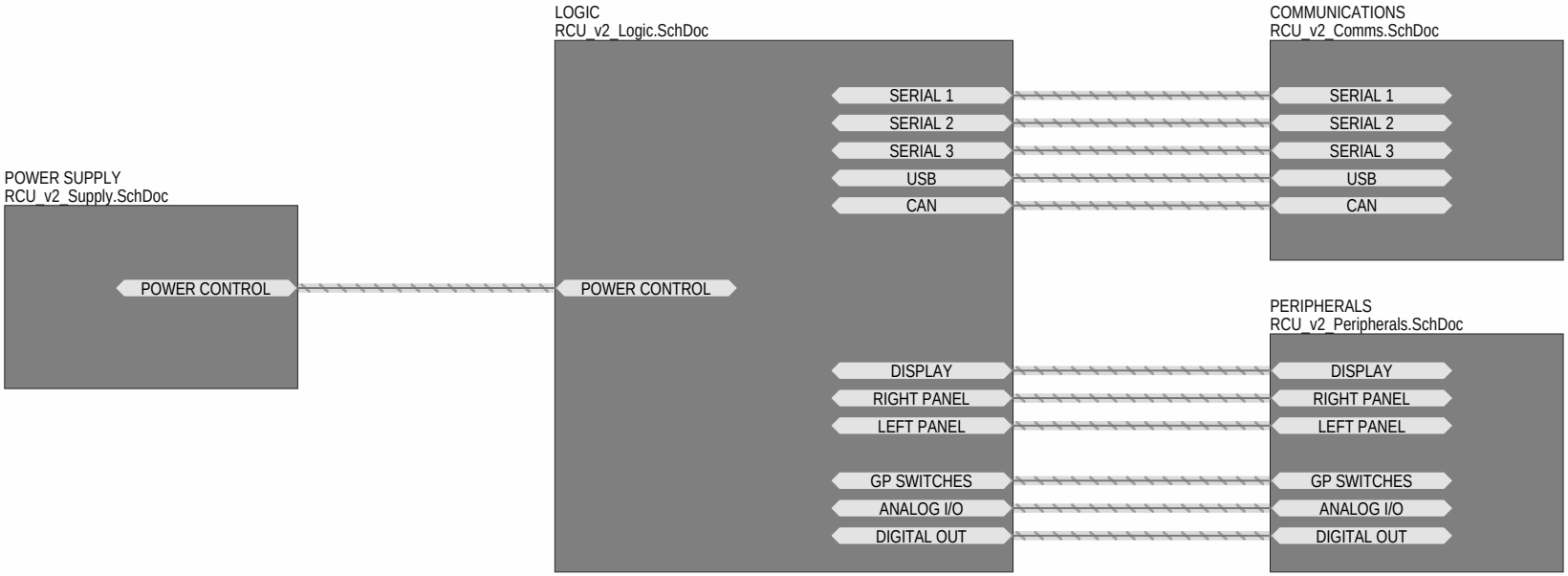
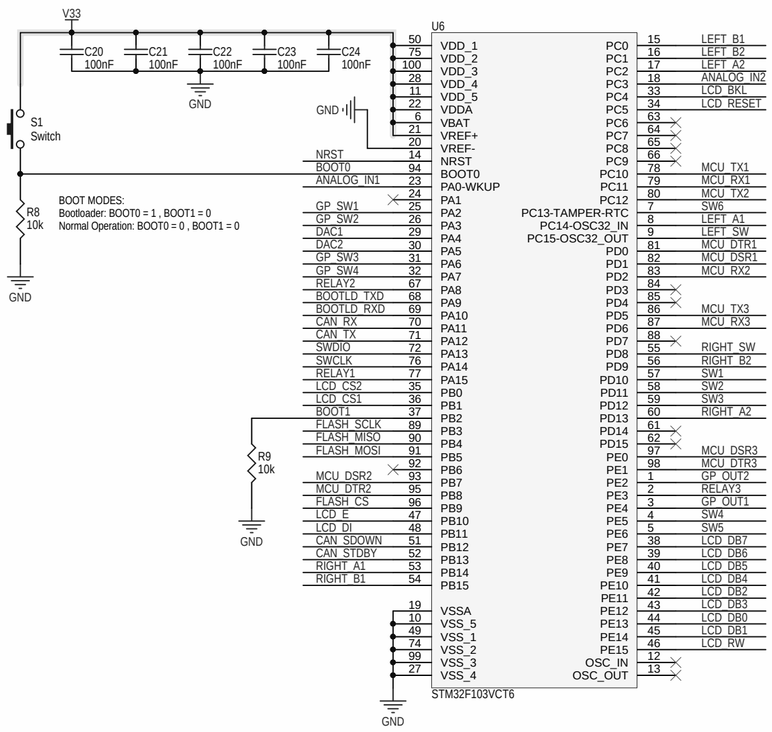
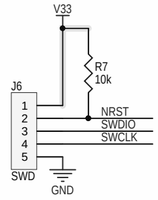


RCU v.2 - Project			
Size: A4	Number: 1.	Version: 2.0	Sheet 1 of 5
File: RCU_v2_Project.SchDoc			
Date: 10-07-2024	Author: GPD		

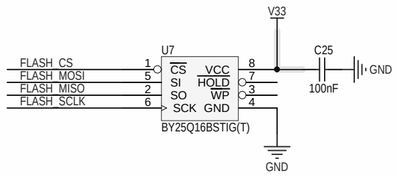
MAIN CONTROLLER



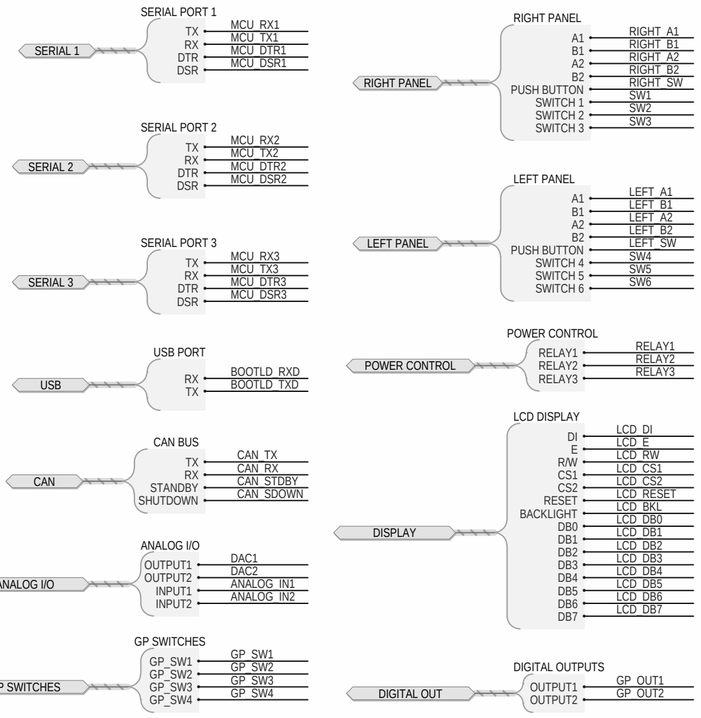
PROGRAM / DEBUG PORT



FLASH MEMORY

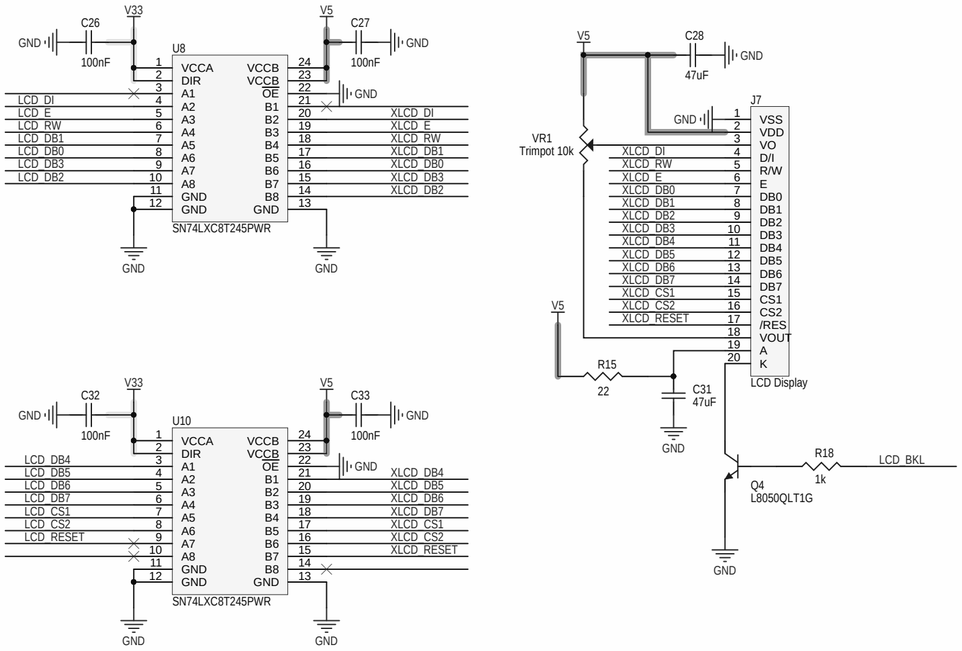


SHEET PORTS AND HARNESSES

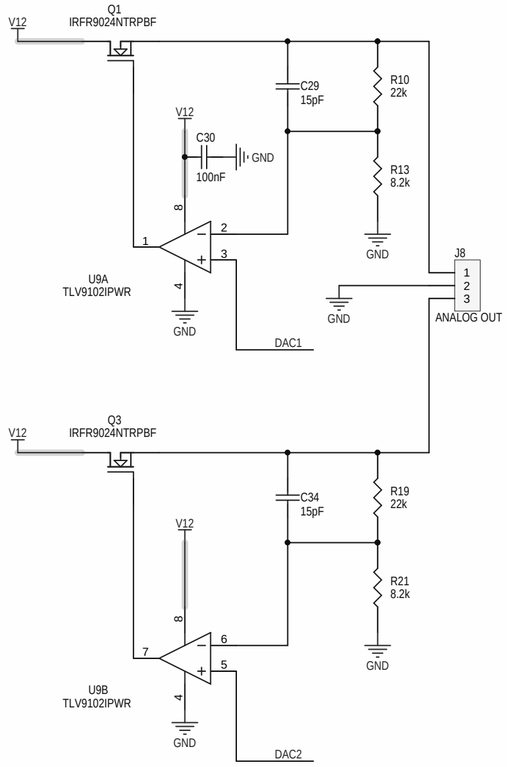


RCU v.2 - Main Controller and Memory			
Size: C	Number: 2.	Version:2.0	Sheet 2 of 5
File: RCU_v2_Logic.SchDoc			
Date: 10-07-2024		Author: GPD	

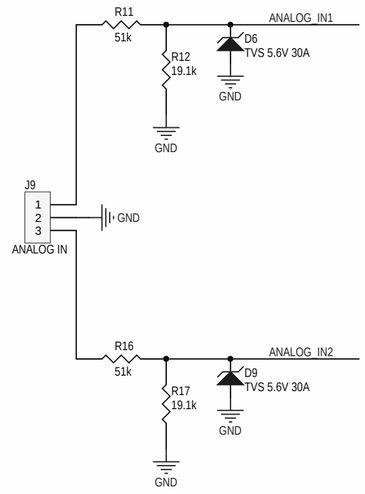
LCD DISPLAY



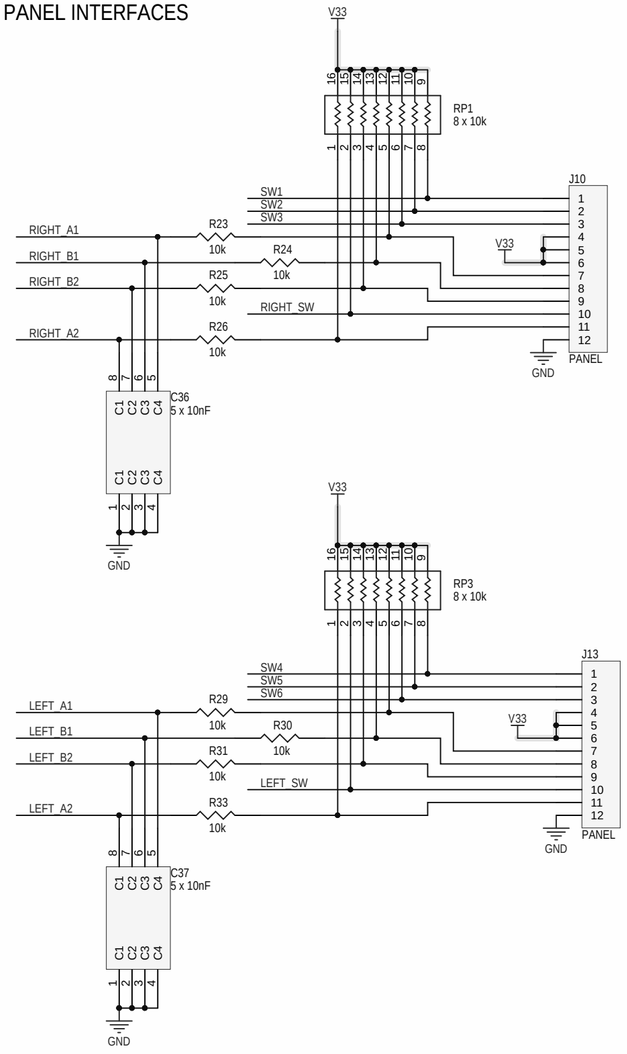
ANALOG OUTPUTS



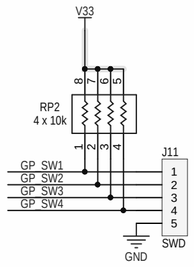
ANALOG INPUTS



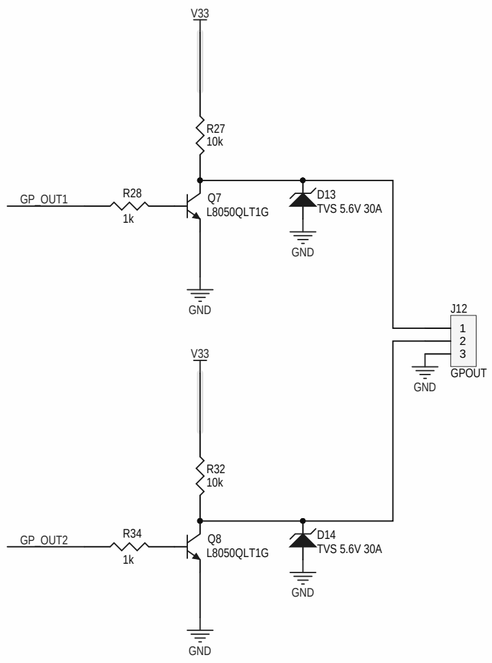
PANEL INTERFACES



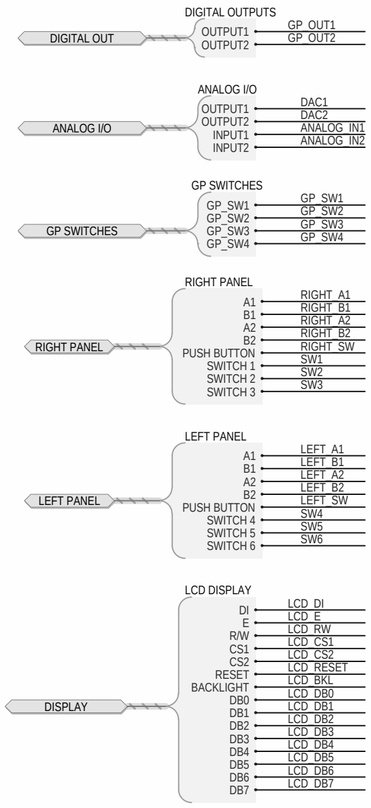
GENERAL PURPOSE SWITCHES



GENERAL PURPOSE DIGITAL OUTPUTS

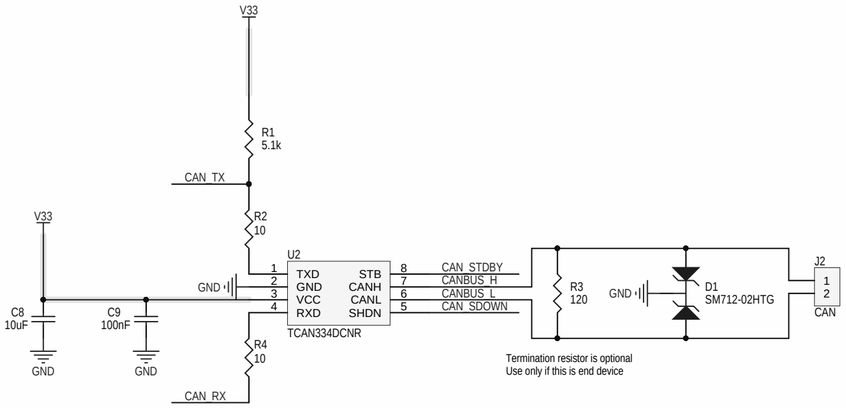


SHEET PORTS AND HARNESSES

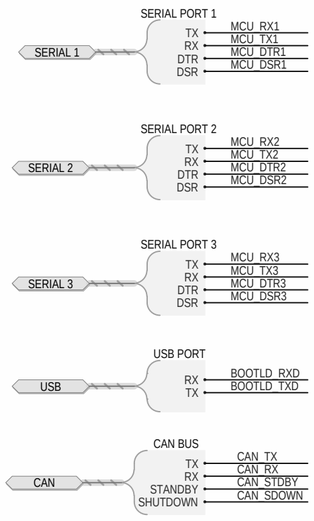


RCU v.2 - Peripherals			
Size: C	Number: 3.	Version: 2.0	Sheet 3 of 5
File: RCU_v2_Peripherals.SchDoc			
Date: 10-07-2024		Author: GPD	

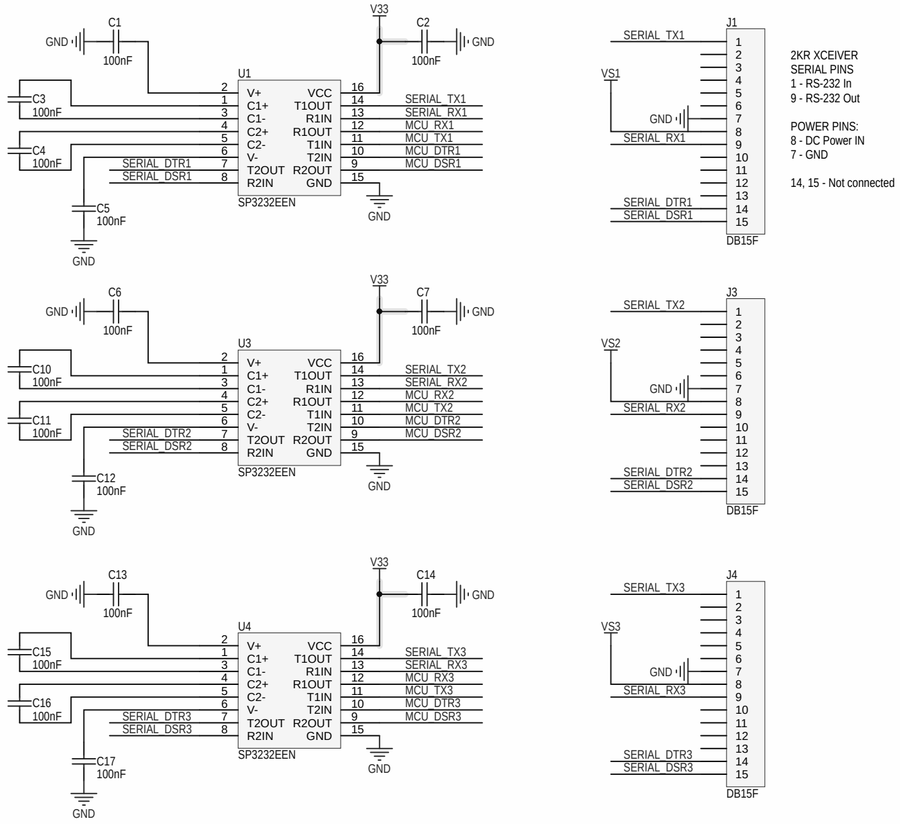
CAN TRANSCEIVER



SHEET PORTS AND HARNESSES



SERIAL PORTS

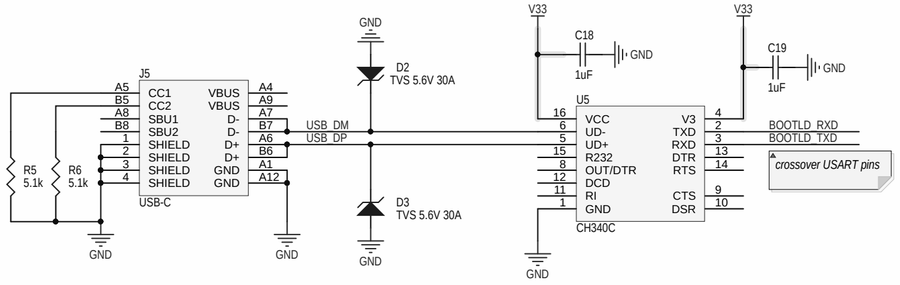


2KR XCEIVER
SERIAL PINS
1 - RS-232 In
9 - RS-232 Out

POWER PINS:
8 - DC Power IN
7 - GND

14, 15 - Not connected

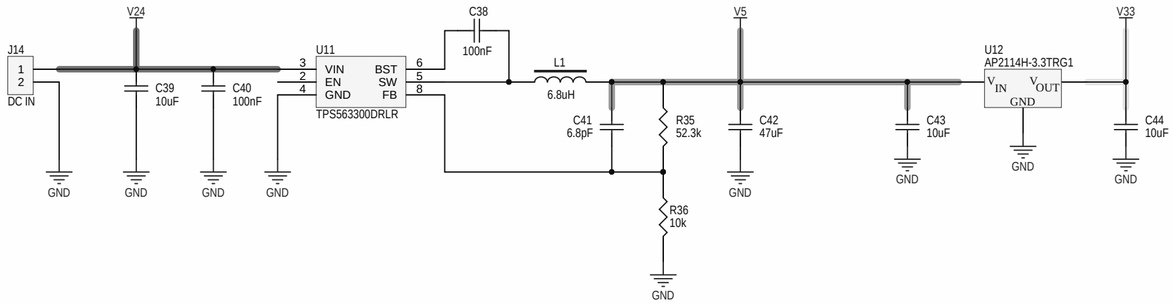
USB-SERIAL TRANSCEIVER



RCU v.2 - Communications			
Size: C	Number: 4.	Version: 2.0	Sheet 4 of 5
File: RCU_v2_Comms.SchDoc			
Date: 10-07-2024		Author: GPD	

5V SUPPLY

Vin: 6V - 28V
Vout: 5.0V
Iout max: 0.8A

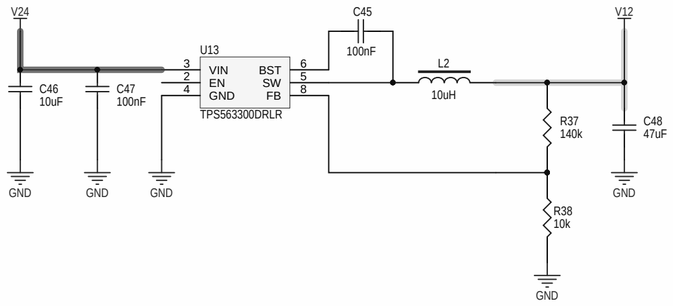


3.3V SUPPLY

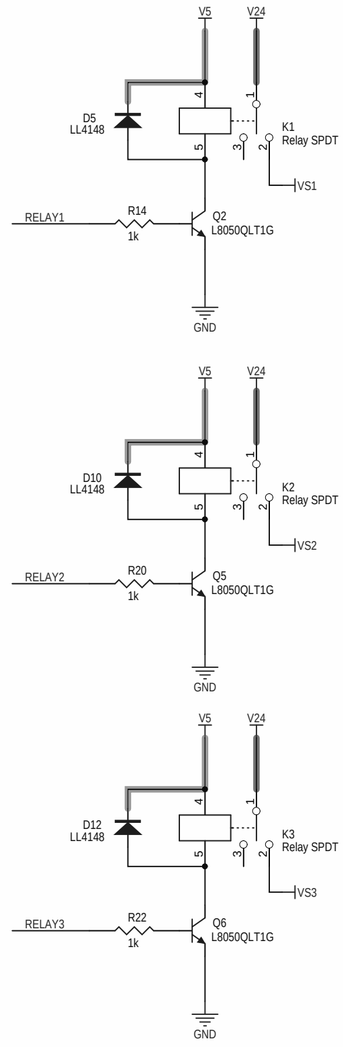
Iout max: 0.8A

12V SUPPLY

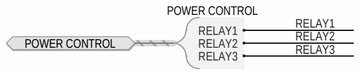
Vin: 6V - 28V
Vout: 12V
Iout max: 1A



POWER PATH CONTROL



SHEET PORTS AND HARNESSES



RCU v.2 - Power Supply			
Size: C	Number: 5.	Version: 2.0	Sheet 5 of 5
File: RCU_v2_Supply.SchDoc			
Date: 10-07-2024		Author: GPD	