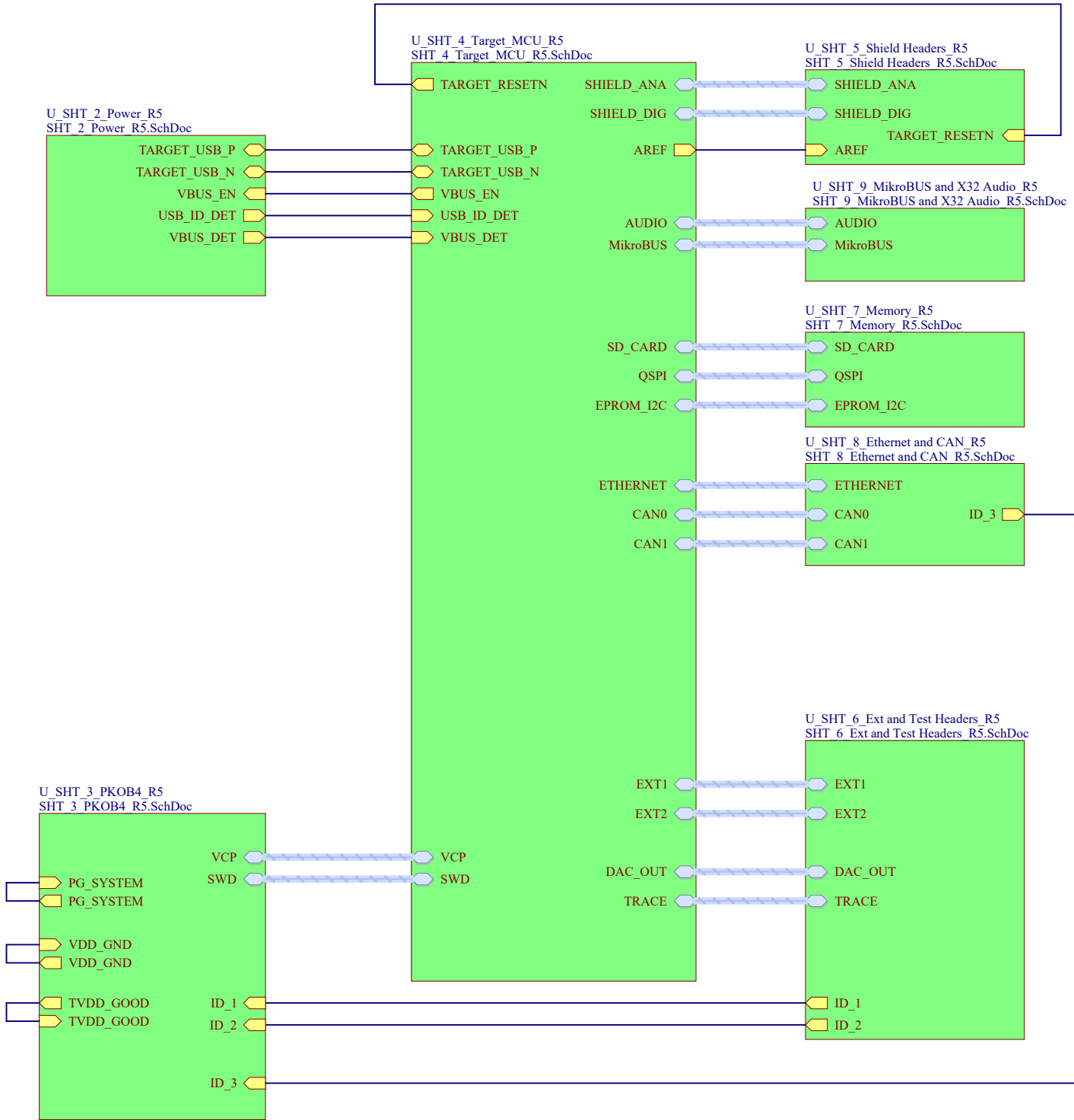


PIC32CX SGxx Curiosity Ultra

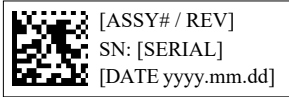


LABEL2

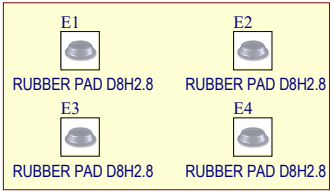



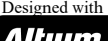
SILICON VARIANT LABEL 6X6mm

LABEL1

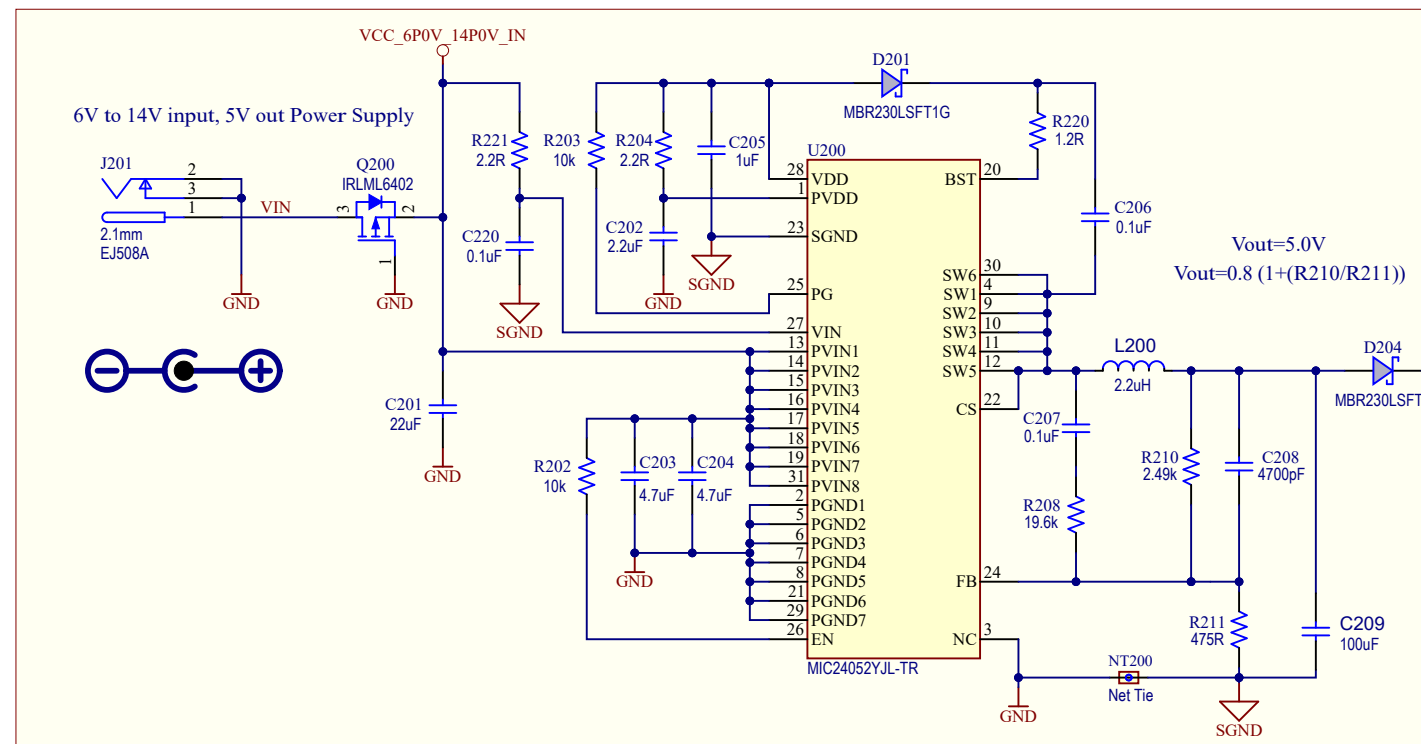


PCBA LABEL 18X6mm

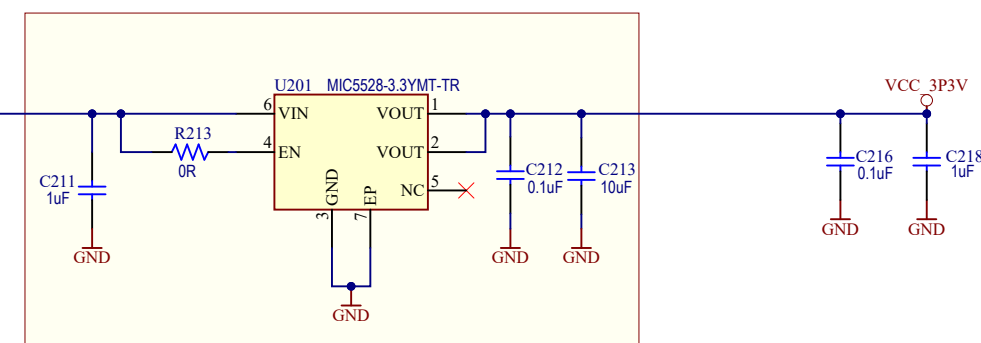


Drawn By: Ricardo Tejeda		 MICROCHIP			
Engineer: Jerome Angeloni					
PartNumber: EV09H35A		Project Title PIC32CX SGxx CURIOSITY ULTRA		Variant: PIC32CX SG Cultra R5	
Sheet Title Top Level				Designed with 	
Size B	SCH #: 03-00576	Rev: 5	Date: 8/26/2022	Sheet 1 of 9	
PCB #: 04-11671		Rev: 5			
File: SHT 1 TopLevel R5.SchDoc					

Power

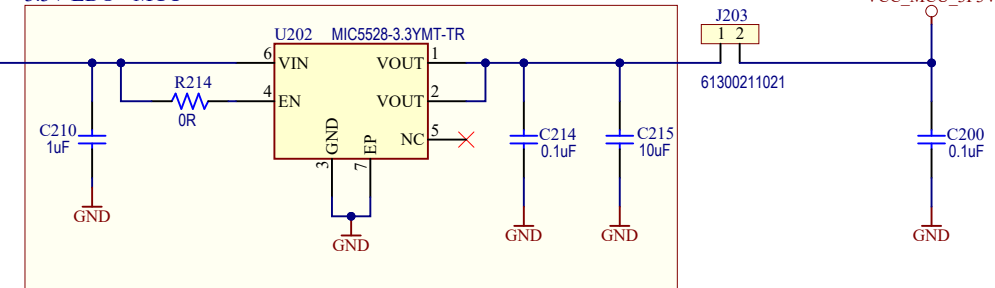


3.3V LDO - Accessories

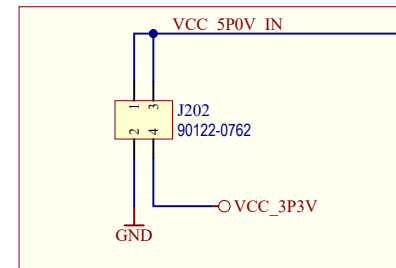


500mA low noise LDO voltage regulator
Noise: 28uVrms
Accuracy 2%
Dropout 500 mV at 500 mA (maximum)
Quiescent current 38 uA
Current limit 525 mA (minimum)
Thermal shutdown and current limit protection

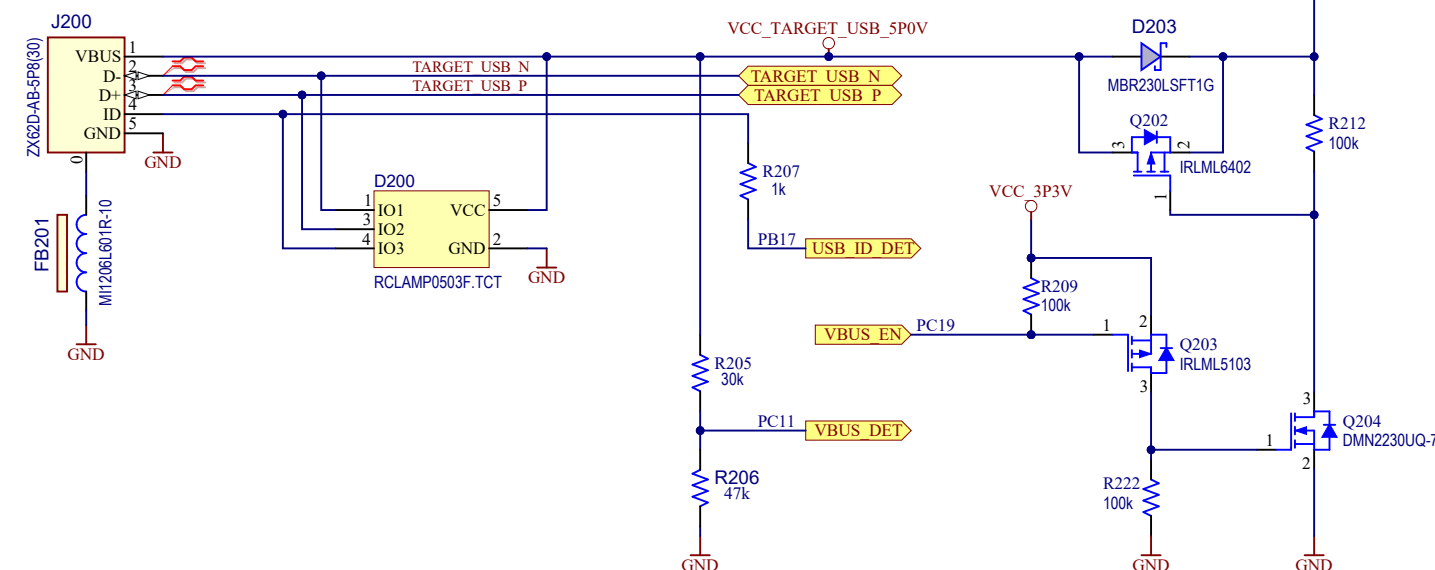
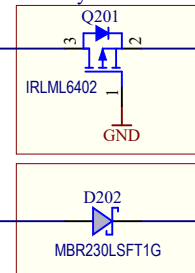
3.3V LDO - MCU



Power Connector





Polarity Protection

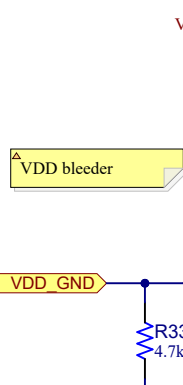
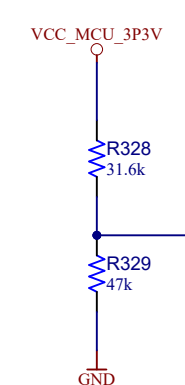
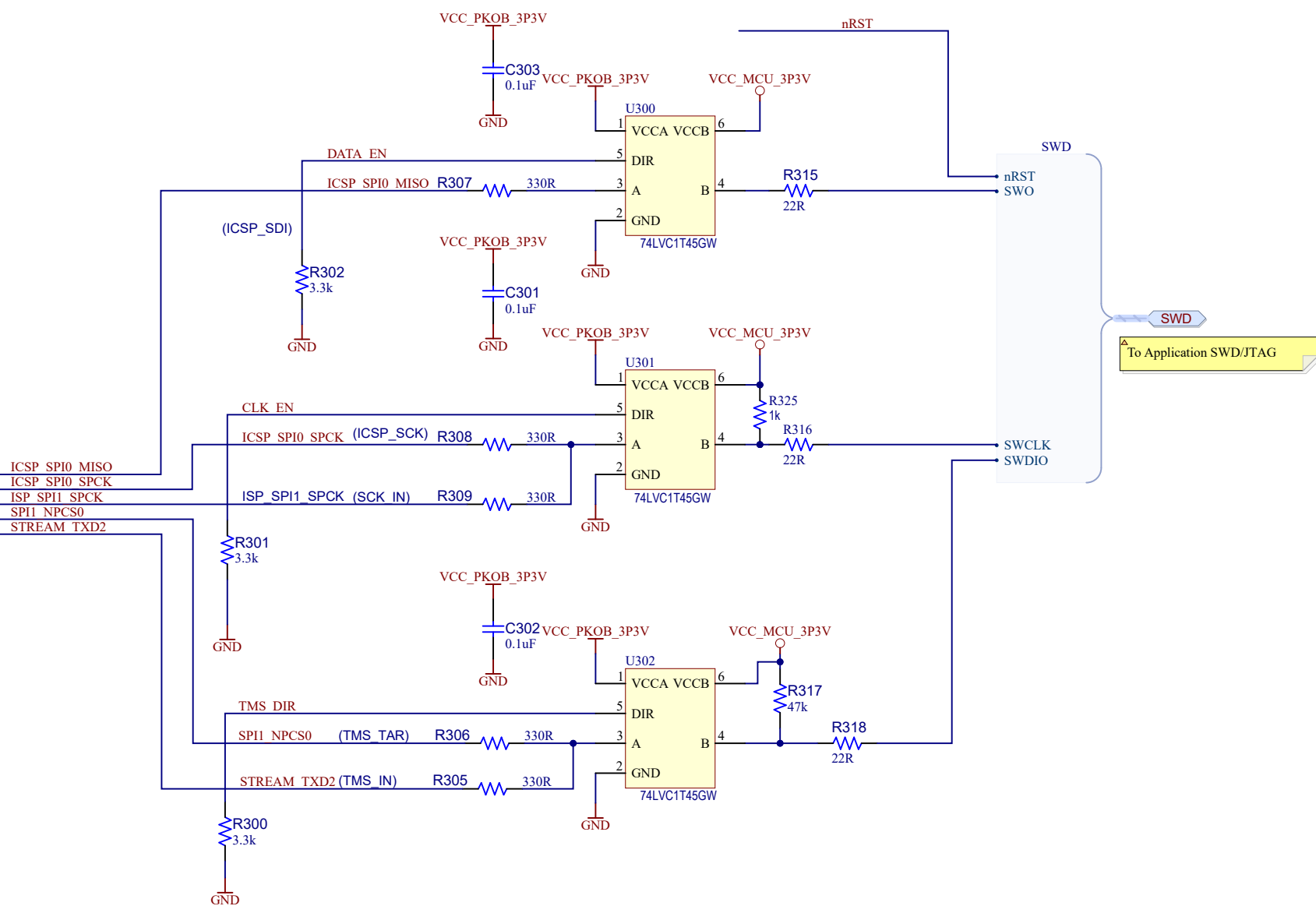
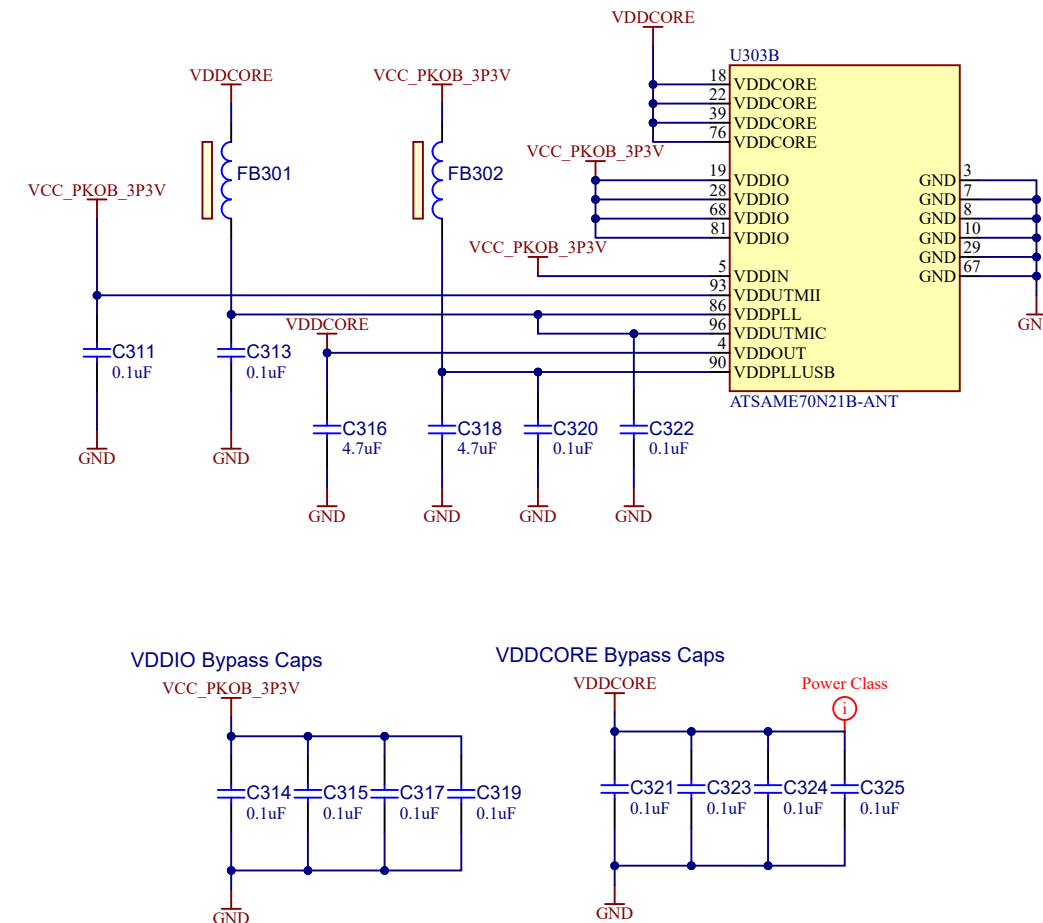
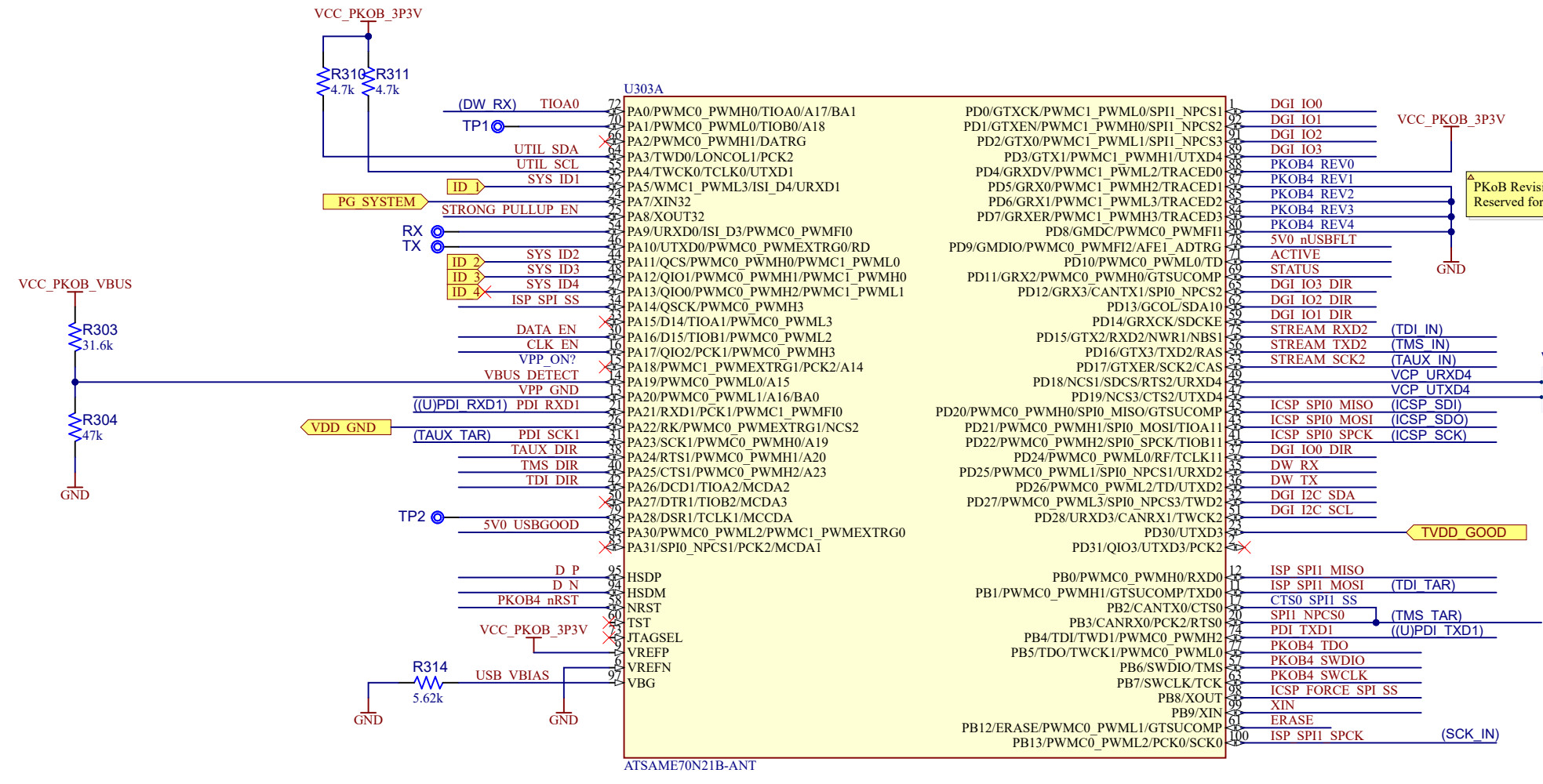
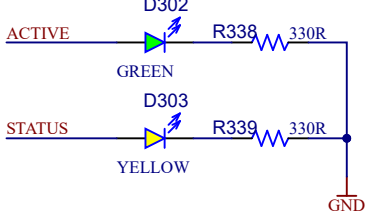
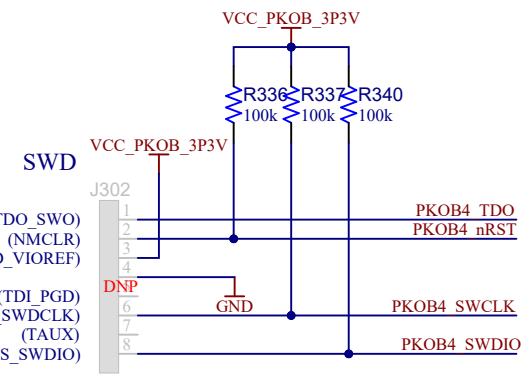
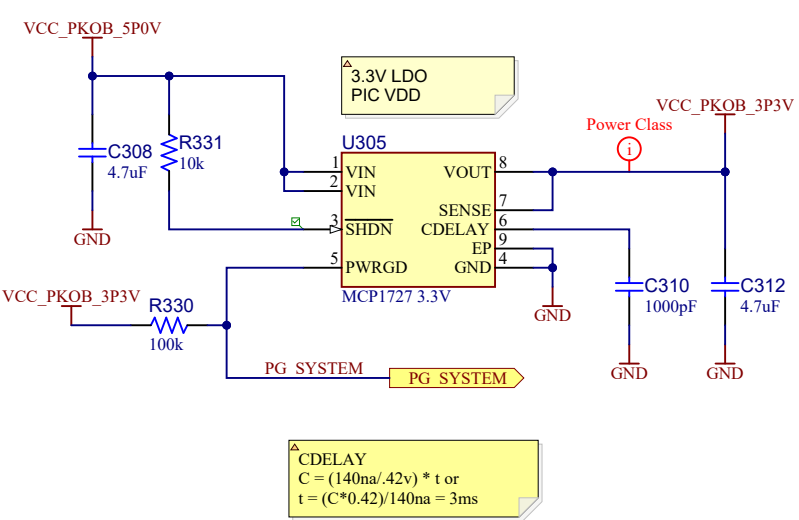
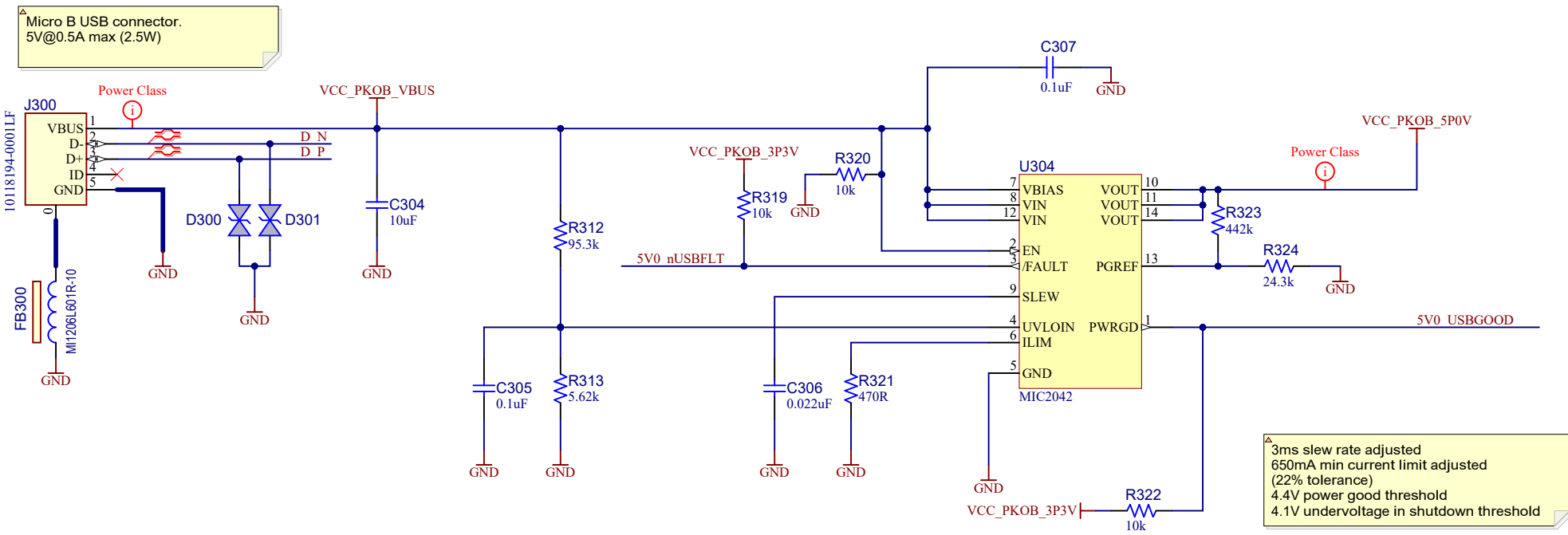


PB17 is connected to the USB_ID_DET signal and can be used to check if an OTG cable or a host mode cable is connected.

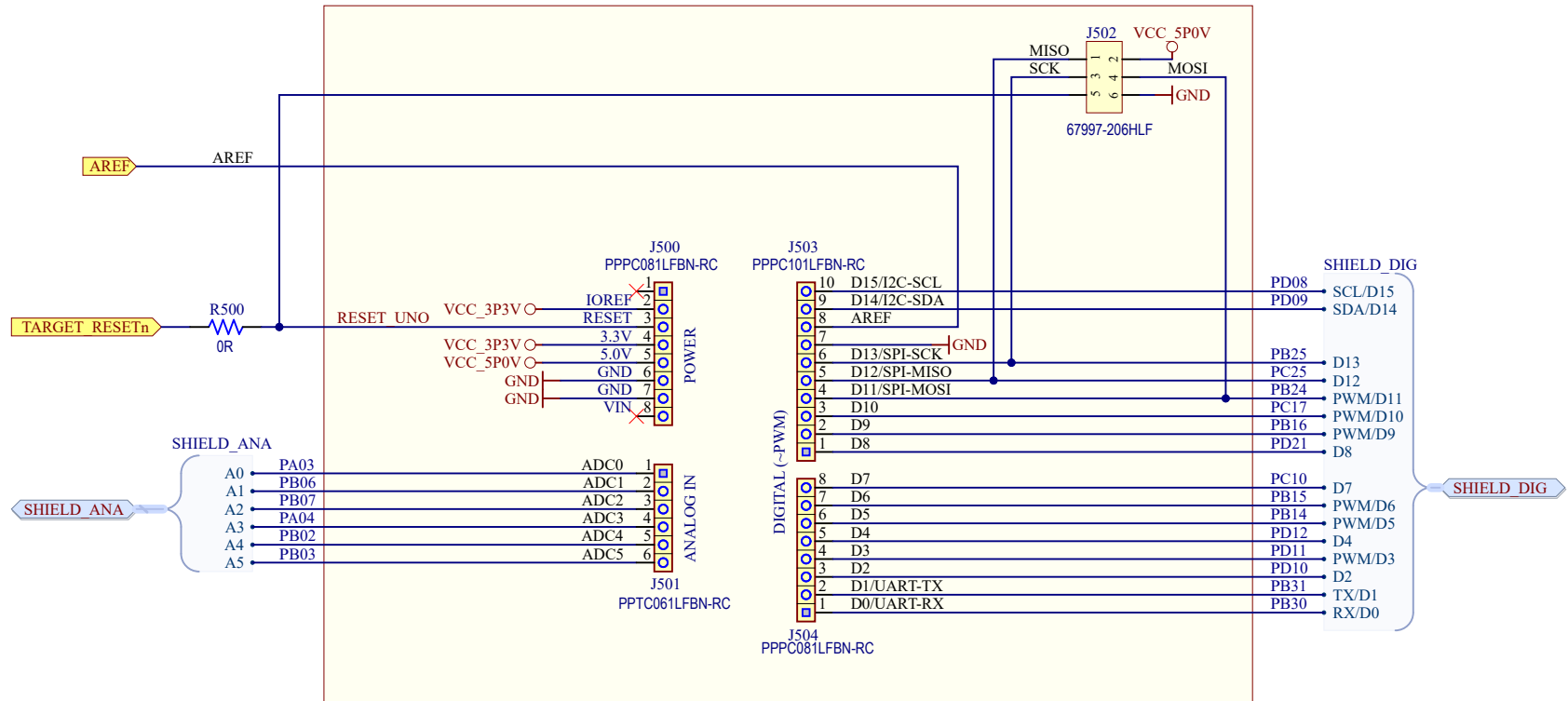
These cables will pull the USB_ID_DET signal low. When VBUS_EN (PC19) is low, the kit will provide power to the USB device connected to J200.

Drawn By: Ricardo Tejeda			
Engineer: Jerome Angeloni			
PartNumber: EV09H35A	Project Title PIC32CX SGxx CURIOSITY ULTRA	Variant: PIC32CX SG_CULtra_R5	
Sheet Title Power	Size B	SCH #: 03-00576	Rev: 5
		Date: 8/26/2022	Rev: 5
		Sheet 2 of 9	Designed with  Altium.com
File: SHT 2_Power_R5.SchDoc			

PICKit on Board 4



ARDUINO UNO COMPATIBLE HEADERS



Drawn By:
Ricardo Tejada

Engineer:
Jerome Angeloni

PartNumber:
EV09H35A

Project Title Variant: PIC32CX SG Ultra R5
PIC32CX SGxx CURIOSITY ULTRA

Sheet Title
Shield Headers

Size A

SCH #: 03-00576

Rev:5

Date: 8/26/2022

PCB #: 04-11671

Rev:5

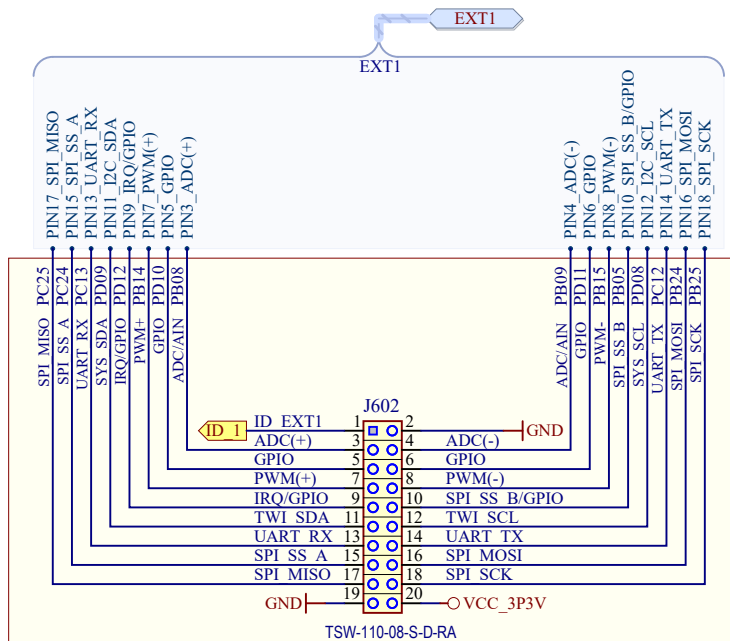
Sheet 5 of 9

File: SHT_5_Shield-Headers_R5.SchDoc

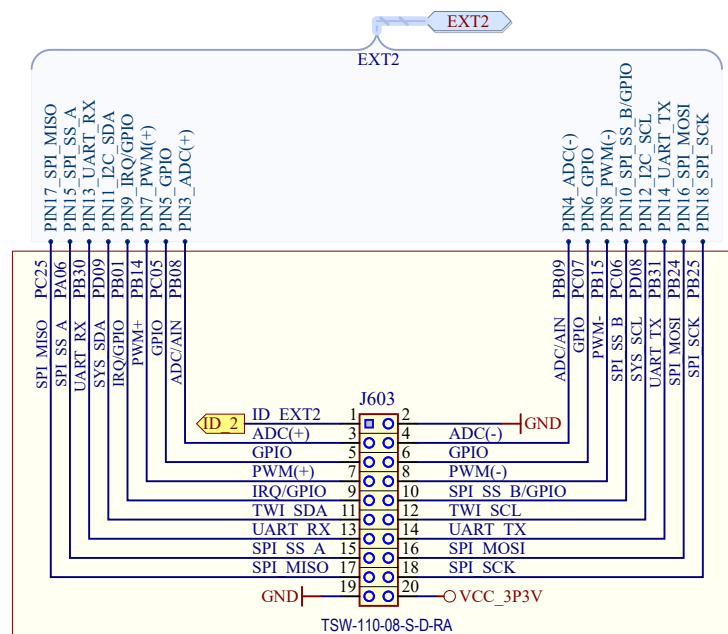
Designed with

Altium

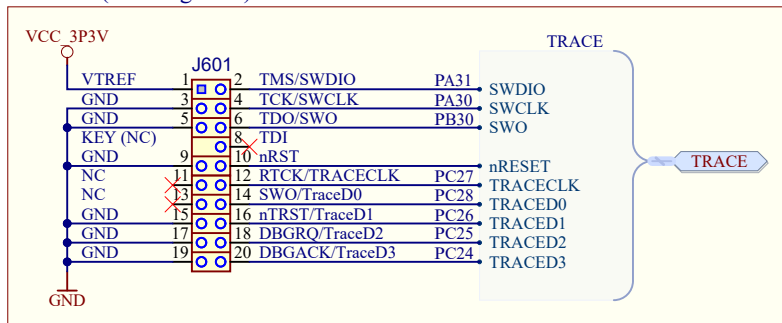
Altium.com



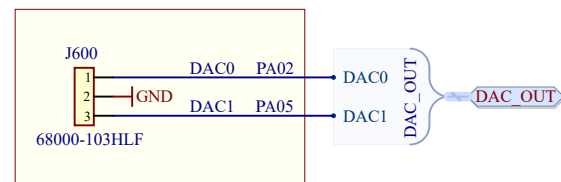
EXT1 Extension Header





EXT2 Extension Header

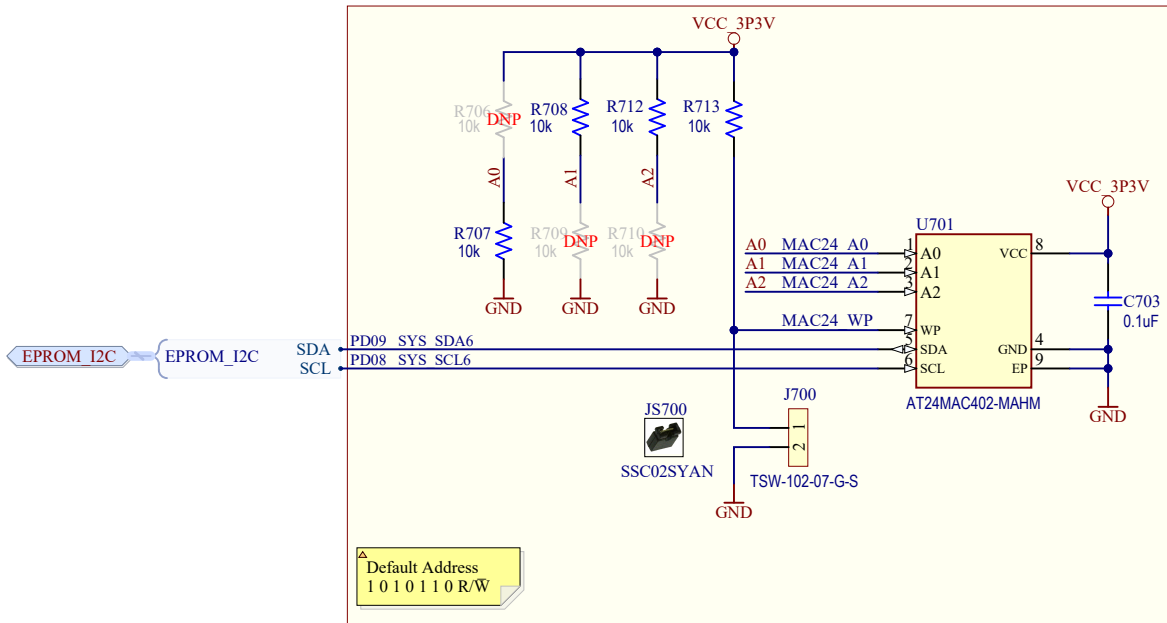


*50Ω single ended impedance

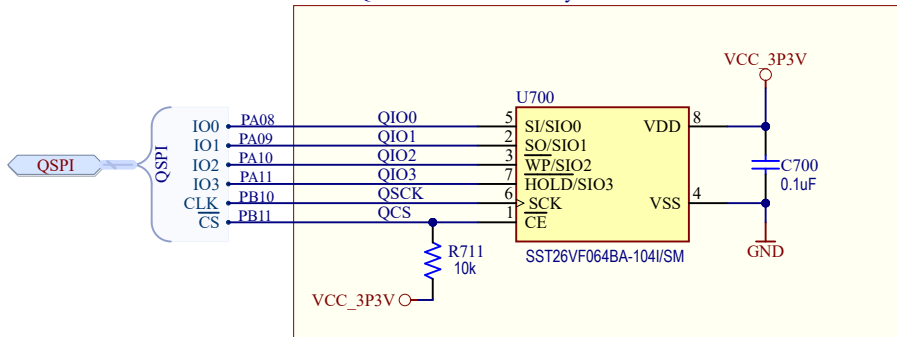


Drawn By: Ricardo Tejada		 MICROCHIP	
Engineer: Jerome Angeloni			
PartNumber: EV09H35A	Project Title PIC32CX SGxx CURIOSITY ULTRA	Variant: PIC32CX SG CULtra R5	
Sheet Title Ext & Test Headers			Designed with 
Size A	SCH #: 03-00576 PCB #: 04-11671	Rev:5 Rev:5	Date: 8/26/2022 Sheet 6 of 9
File: SHT 6 Ext and Test Headers R5.SchDoc			

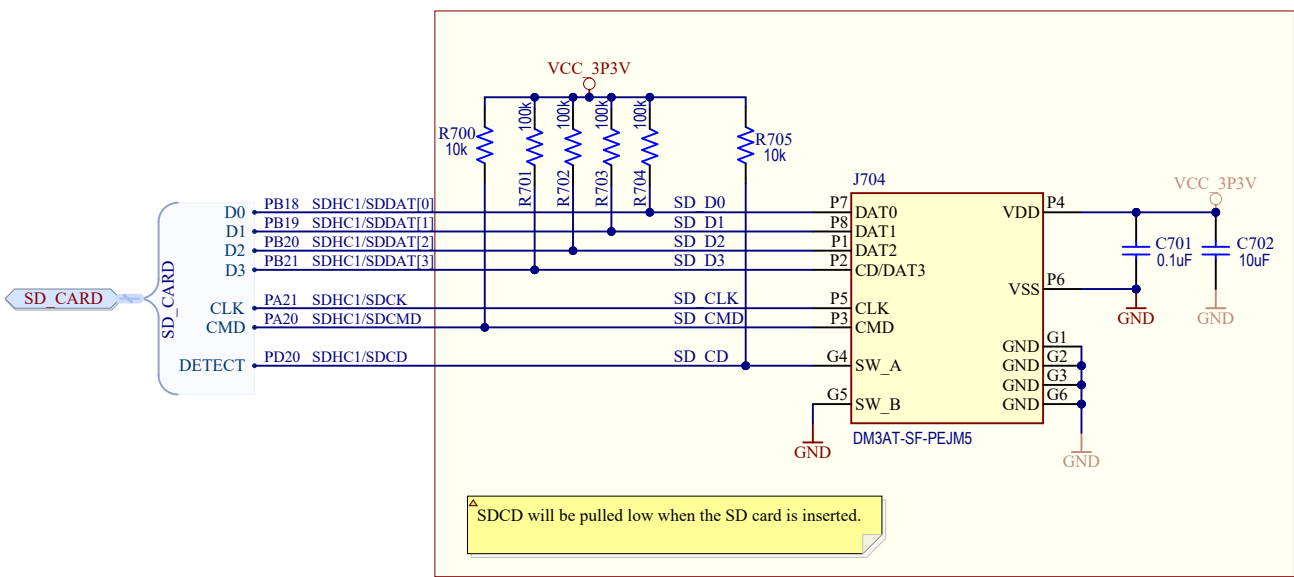
Serial EEPROM With EIA-48 MAC Address

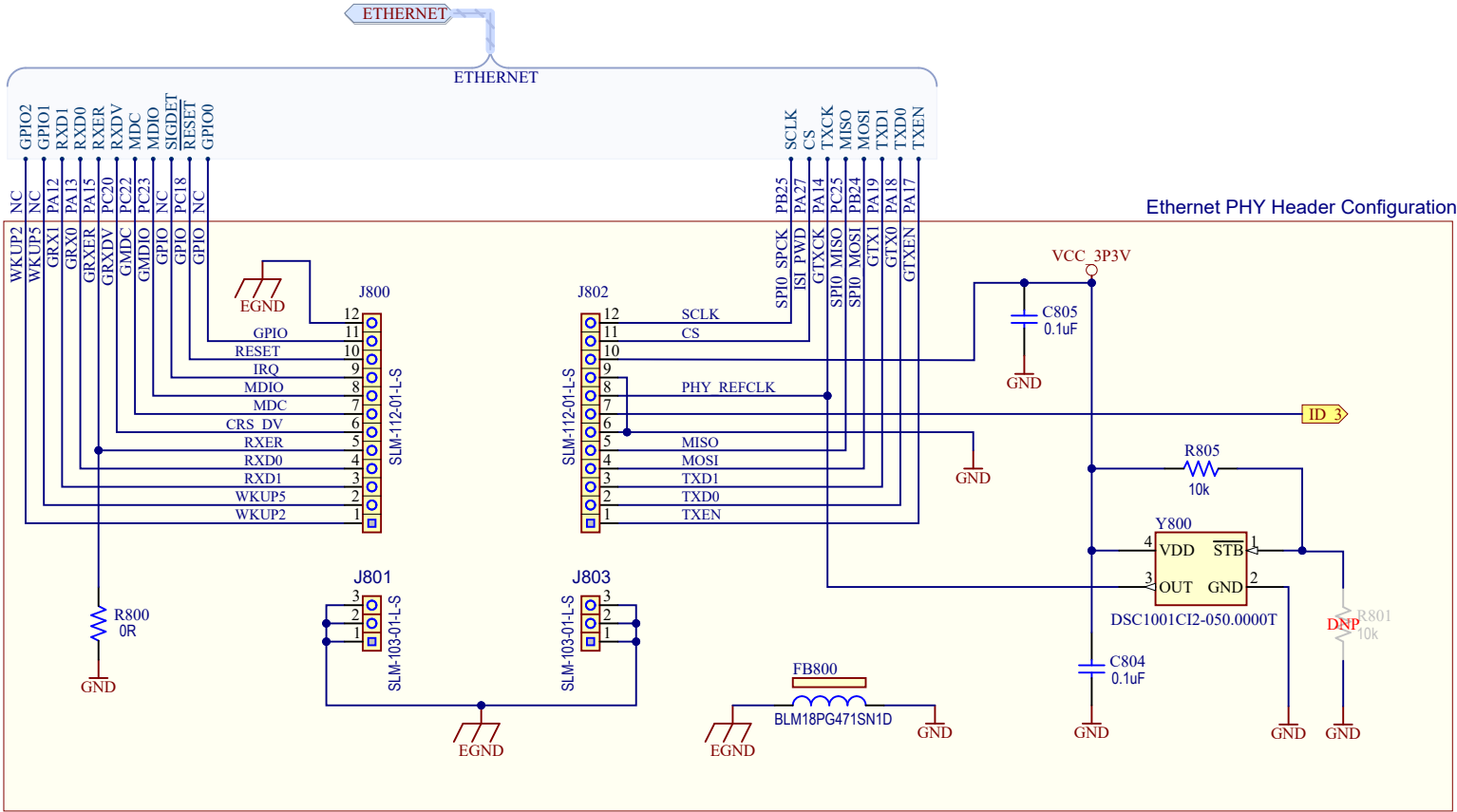


Serial Quad I/O Flash Memory

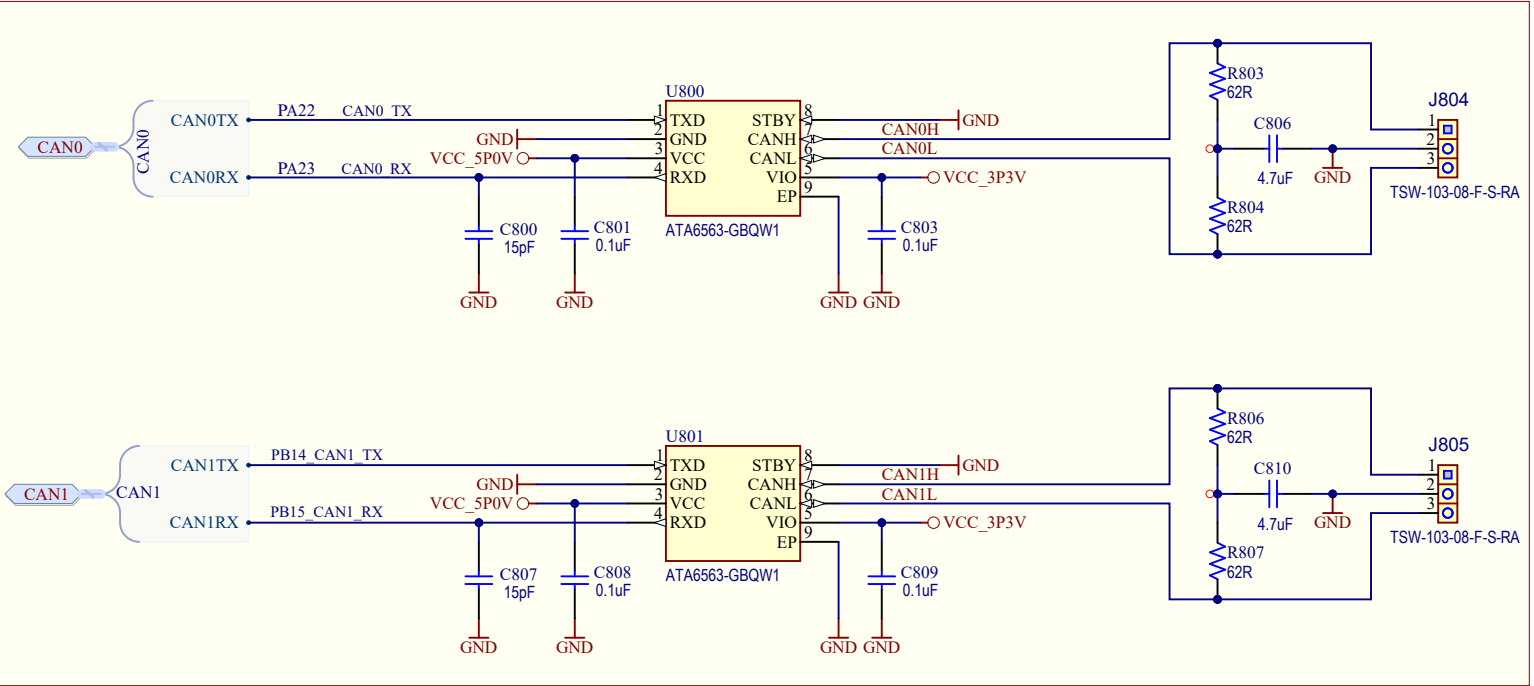


microSD-CARD





CAN Interfaces



Drawn By:
Ricardo Tejada

Engineer:
Jerome Angeloni

PartNumber:
EV09H35A

Project Title
PIC32CX SGxx CURIOSITY ULTRA

Sheet Title
Ethernet & CAN

Size
B

SCH #: 03-00576

Rev: 5

Date: 8/26/2022

PCB #: 04-11671

Rev: 5

Sheet 8 of 9

File: SHT 8 Ethernet and CAN R5.SchDoc



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