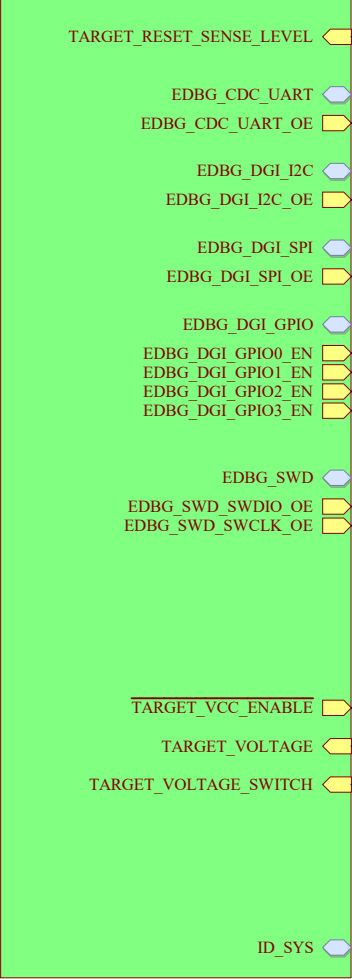
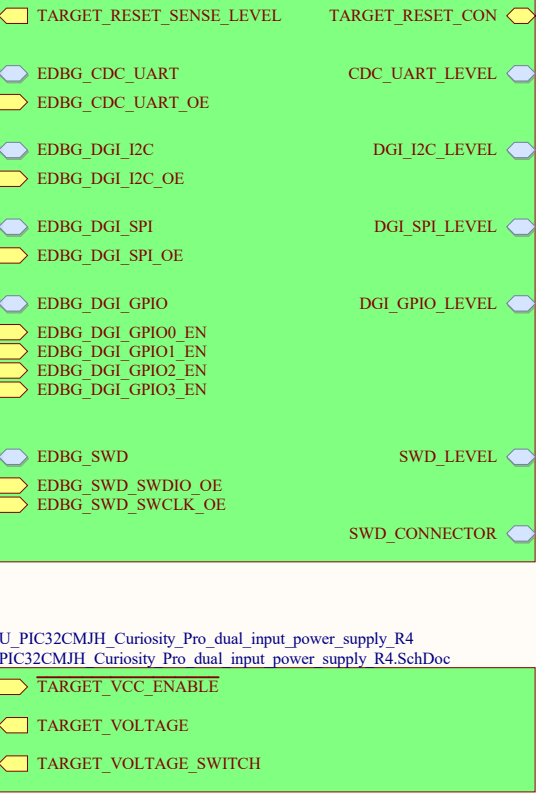


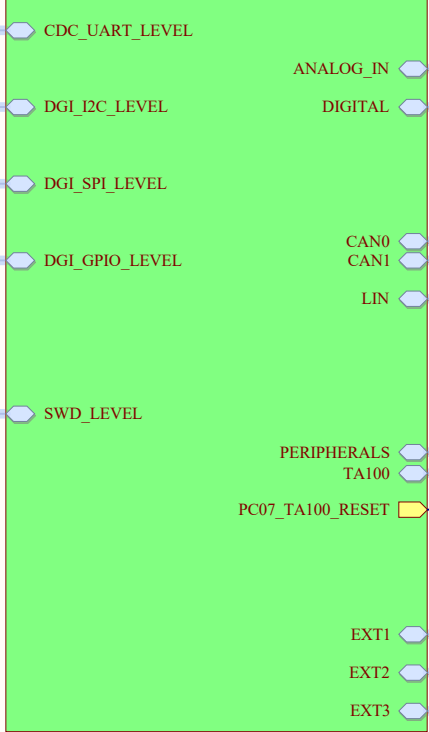
U_PIC32CMJH_Curiosity_Pro_EDBG_R4
PIC32CMJH_Curiosity_Pro_EDBG_R4.SchDoc



U_PIC32CMJH_Curiosity_Pro_Level_Converters_R4
PIC32CMJH_Curiosity_Pro_Level_Converters_R4.SchDoc



U_PIC32CMJH_Curiosity_Pro_Target_MCU_R4
PIC32CMJH_Curiosity_Pro_Target_MCU_R4.SchDoc



U_PIC32CMJH_Curiosity_Pro_Arduino_Connectors_R4
PIC32CMJH_Curiosity_Pro_Arduino_Connectors_R4.SchDoc



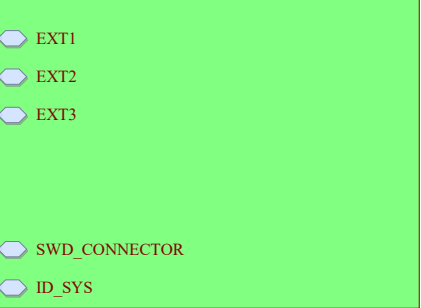
U_PIC32CMJH_Curiosity_Pro_CAN_LIN_R4
PIC32CMJH_Curiosity_Pro_CAN_LIN_R4.SchDoc



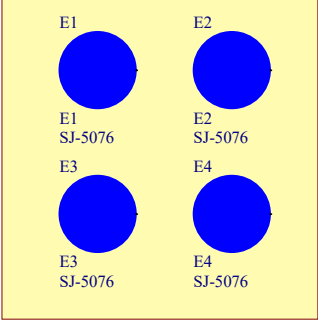
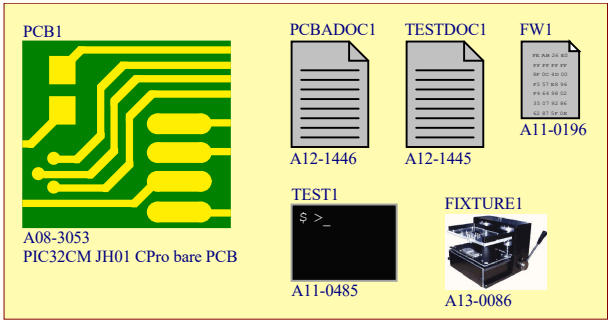
U_PIC32CMJH_Curiosity_Pro_Peripherals_R4
PIC32CMJH_Curiosity_Pro_Peripherals_R4.SchDoc



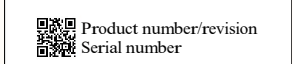
U_PIC32CMJH_Curiosity_Pro_Connectors_R4
PIC32CMJH_Curiosity_Pro_Connectors_R4.SchDoc




EV81X90A
Project Level: A09-3364
PCBA in Bag wLabel: A09-3363
PCBA: A09-3362
PCBA Documentation: A12-1446



LABEL1



Label PCBA: A09-0611

Drawn By: Jesus Aviles		 MICROCHIP	
Engineer: Jerome Angeloni			
Project Title PIC32CM JH01-CPRO			
Sheet Title Top Level Schematics			
Size A3	PCB Assembly Number: <u>A09-2682</u>		PCBA Revision: <u>4</u>
	PCB Number: <u>A08-3053</u>		PCB Revision: <u>4</u>
File: PIC32CMJH_Curiosity_Pro_TopLevel_R4.SchDoc			Date: <u>7/15/2022</u>
			Page: <u>1 of 9</u>

Designed with
Altium
Altium.com

Power inputs to the Curiosity PRO:

VCC_EXT_P5V0
This power input can be used to power the whole board and it has a higher priority than the USB power input.

VCC_EDBG_USB_P5V0
EDBG USB power input. This supply is used when VCC_EXT_P5V0 is not present.

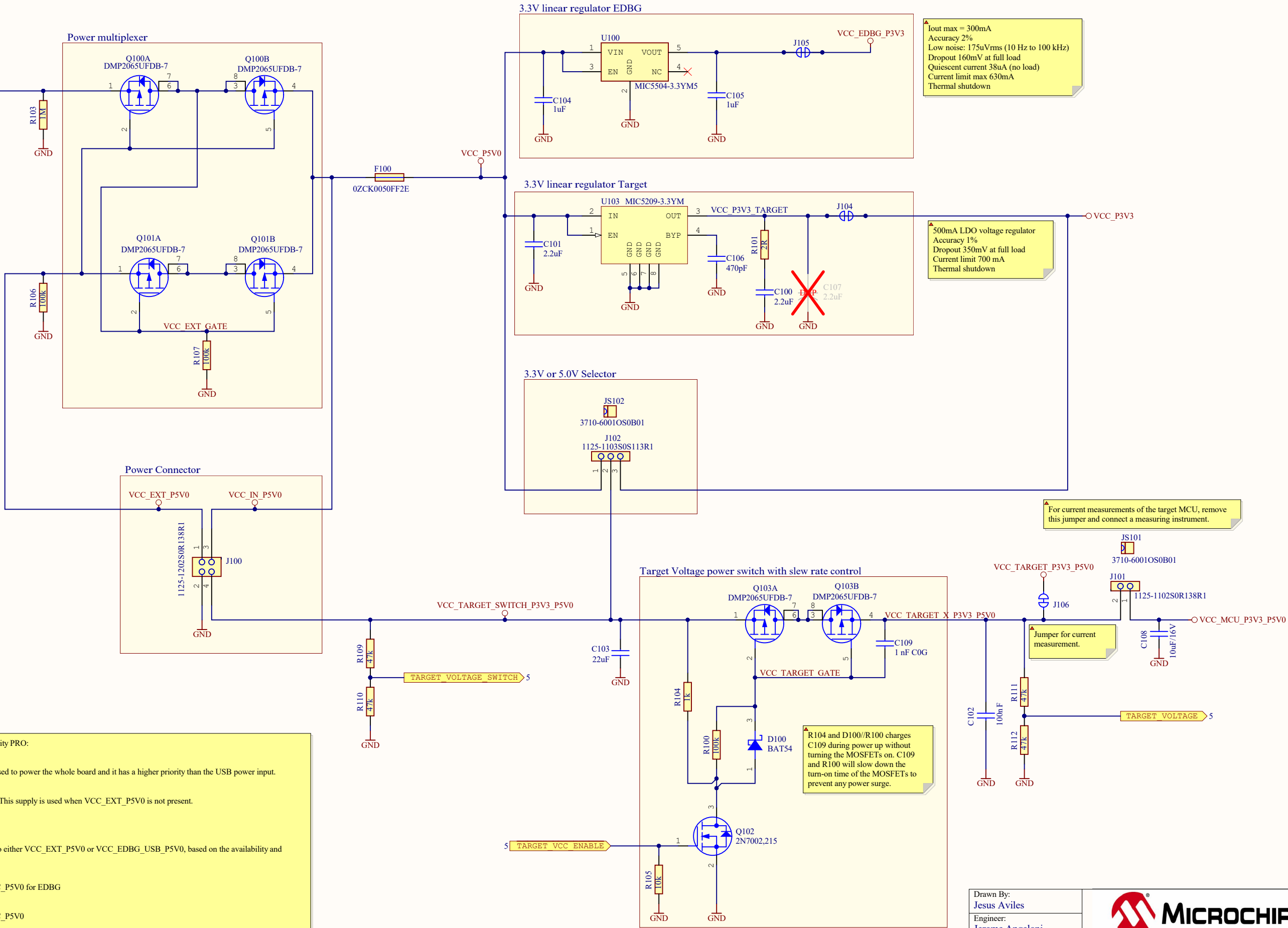
Other voltages:

VCC_P5V0
This supply is connected to either VCC_EXT_P5V0 or VCC_EDBG_USB_P5V0, based on the availability and priority of these supplies.

VCC_EDBG_P3V3
Regulated 3.3V from VCC_P5V0 for EDBG

VCC_P3V3
Regulated 3.3V from VCC_P5V0

VCC_TARGET_P3V3_P5V0
Target supply voltage (target MCU and peripherals)



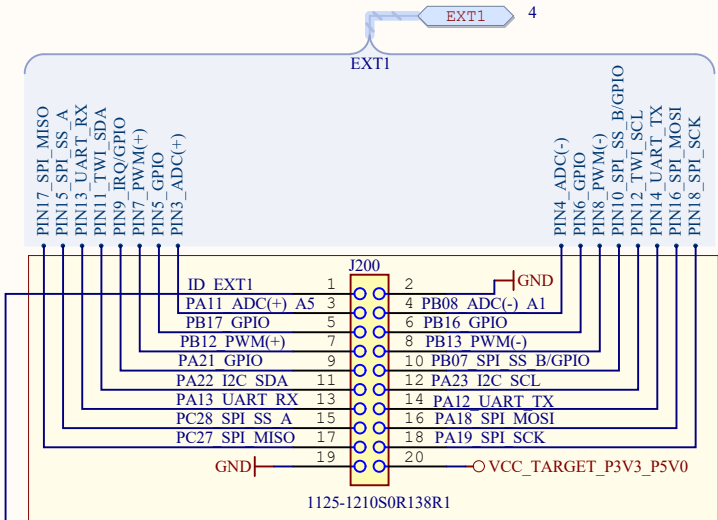
▲ Iout max = 300mA
Accuracy 2%
Low noise: 175uVrms (10 Hz to 100 kHz)
Dropout 160mV at full load
Quiescent current 38uA (no load)
Current limit max 630mA
Thermal shutdown

▲ 500mA LDO voltage regulator
Accuracy 1%
Dropout 350mV at full load
Current limit 700 mA
Thermal shutdown

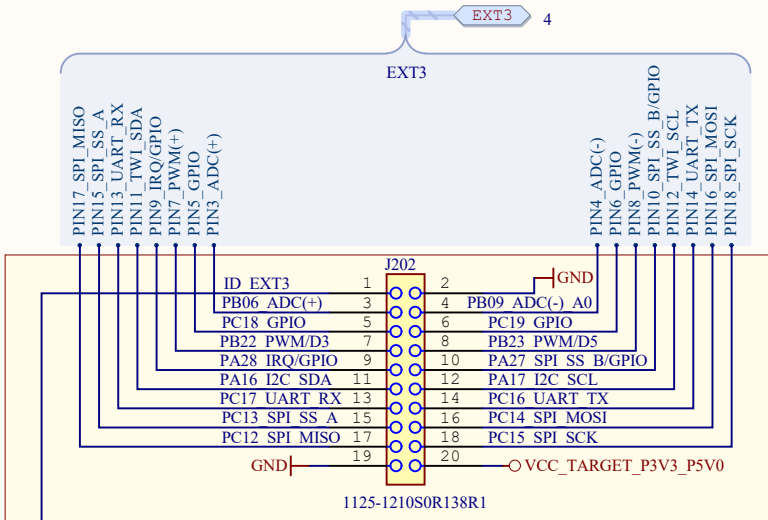
▲ For current measurements of the target MCU, remove this jumper and connect a measuring instrument.

▲ R104 and D100/R100 charges C109 during power up without turning the MOSFETs on. C109 and R100 will slow down the turn-on time of the MOSFETs to prevent any power surge.

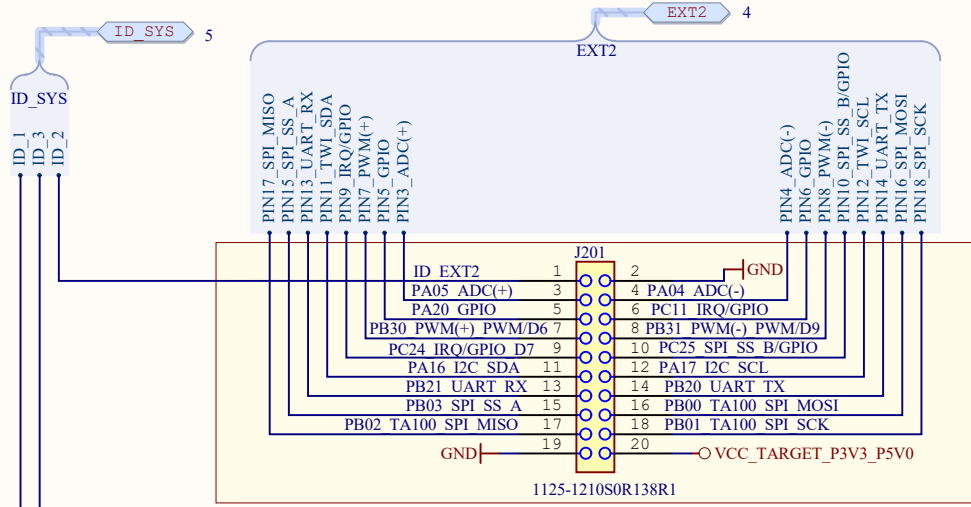
▲ Jumper for current measurement.



EXT1 extension header



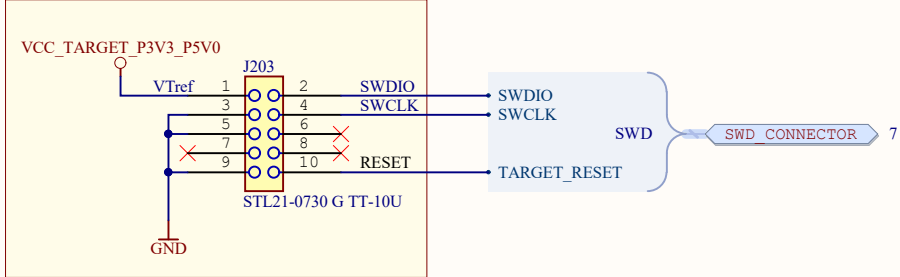
EXT3 extension header

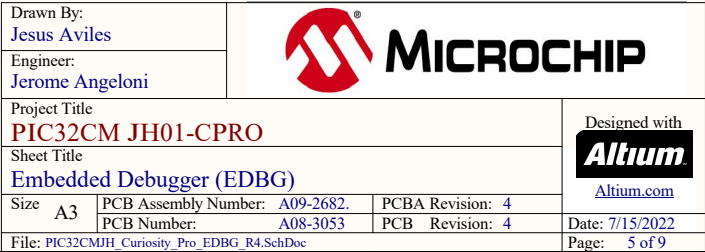


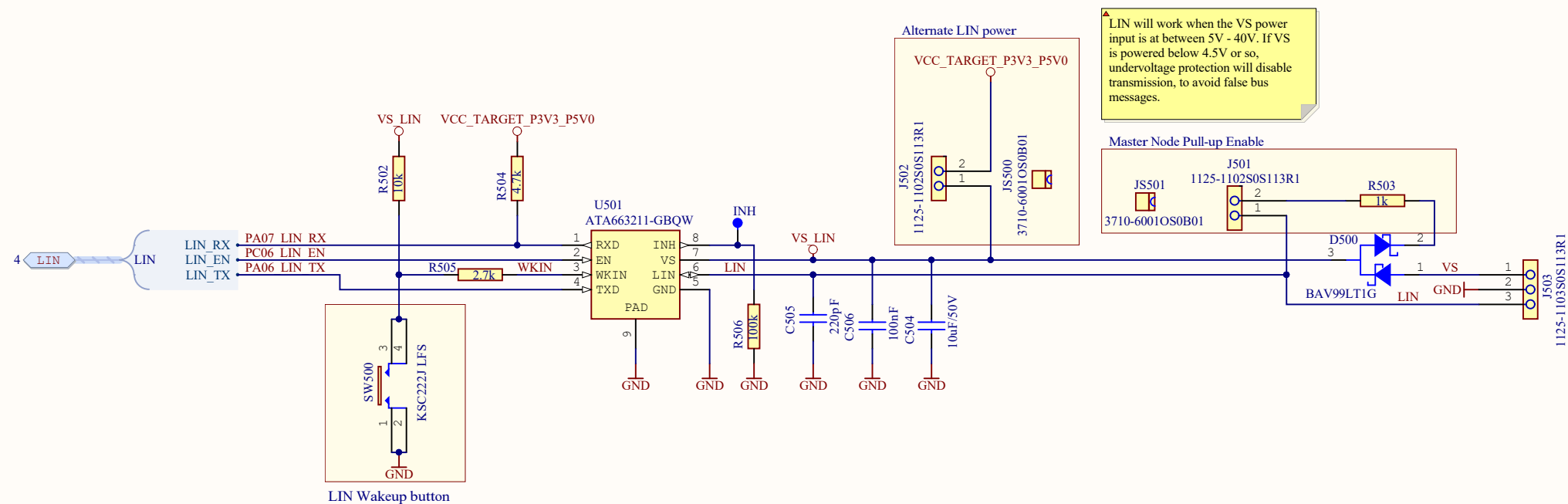
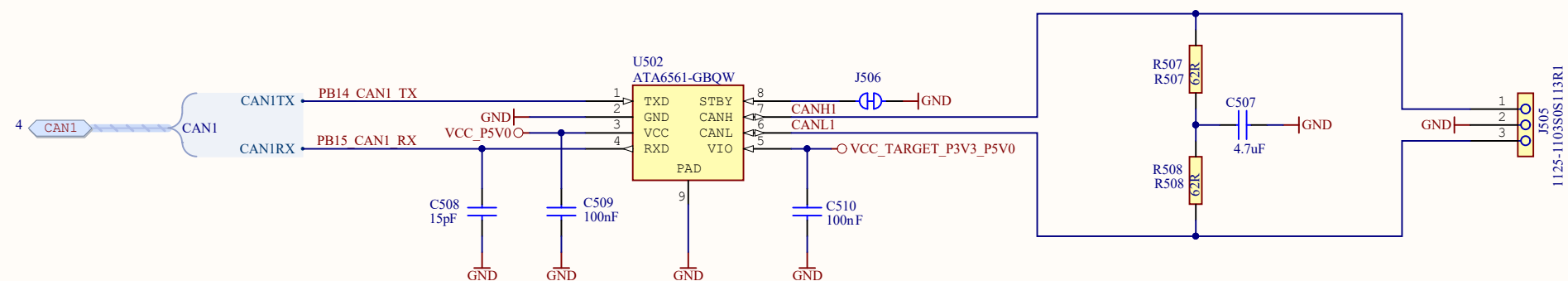
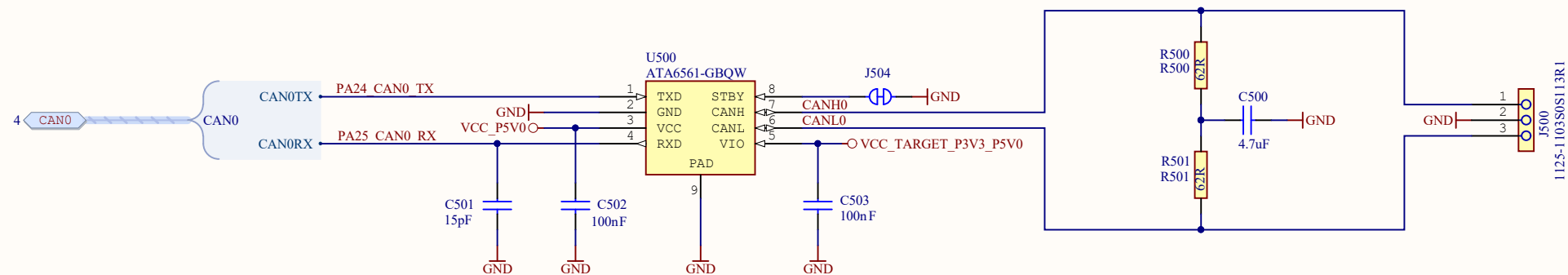
EXT2 extension header

Check Voltage compatability (3.3V vs 5.0V) on Extension Board before plugging in.
J102, pins 1-2 shorted = 5.0V operation.
J102, pin 2-3 shorted = 3.3V operation.


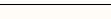
Cortex Debug Connector

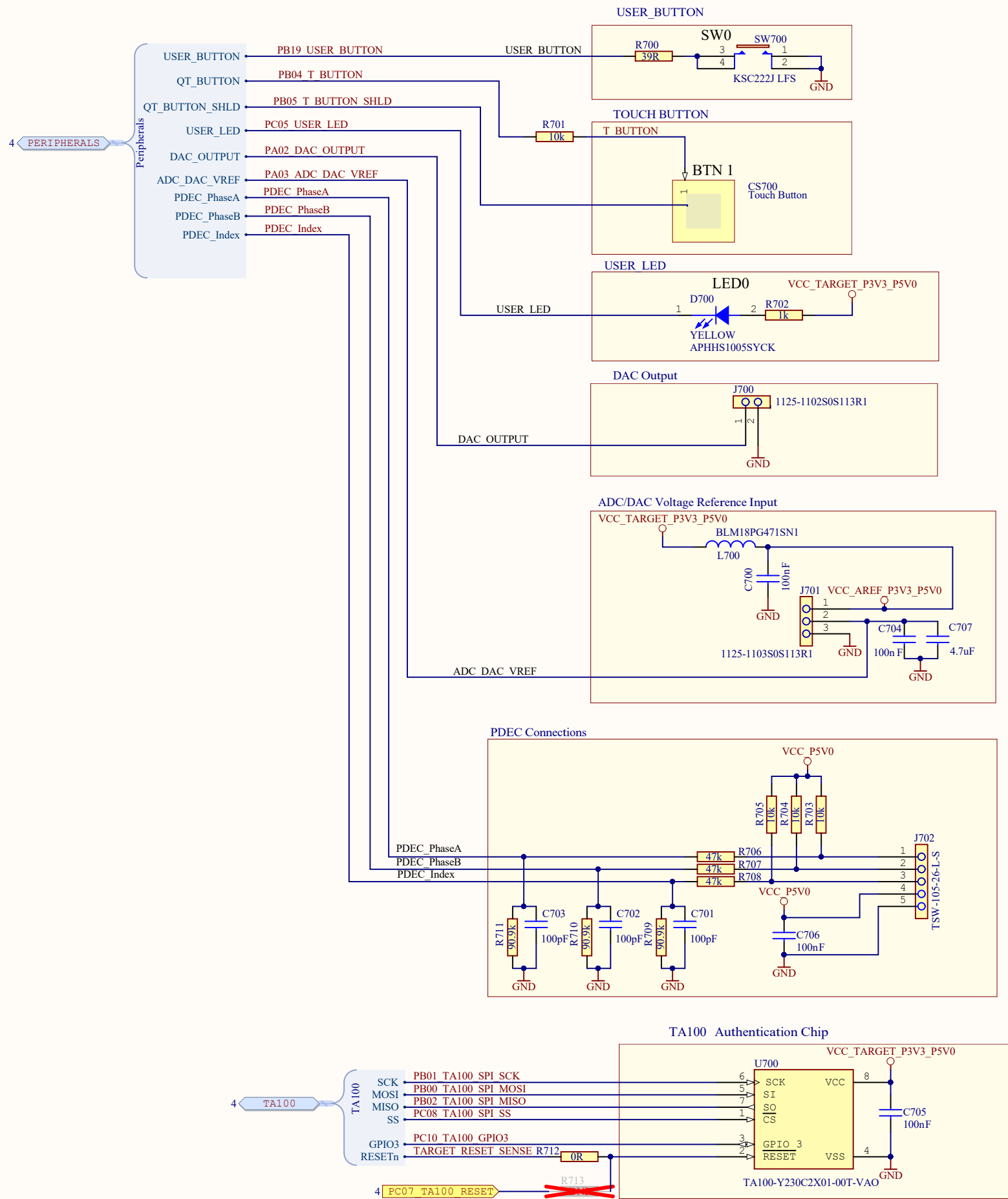








Drawn By: Jesus Aviles		 MICROCHIP	
Engineer: Jerome Angeloni			
Project Title PIC32CM JH01-CPRO			
Sheet Title Data Level Converters			
Size A3	PCB Assembly Number: A09-2682.	PCBA Revision: 4	Designed with  Altium.com
	PCB Number: A08-3053	PCB Revision: 4	
File: PIC32CMJH Curiosity Pro Level Converters R4.SchDoc			Date: 7/15/2022 Page: 7 of 9



Drawn By:
Jesus Aviles
Engineer:
Jerome Angeloni



Project Title
PIC32CM JH01-CPRO
Sheet Title
Peripherals

Size A3	PCB Assembly Number: A09-2682.	PCBA Revision: 4
File: PIC32CMJH_Curiosity_Pro_Peripherals_R4.SchDoc	PCB Number: A08-3053	PCB Revision: 4
Date: 7/15/2022		Page: 8 of 9

Designed with
Altium
Altium.com

