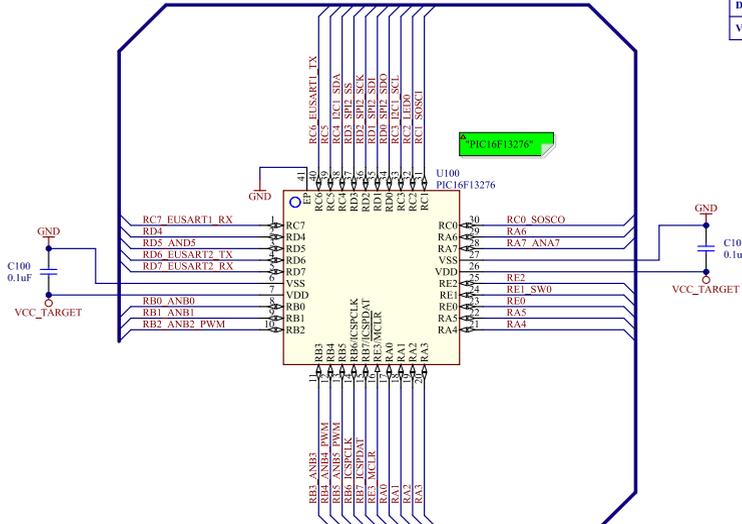
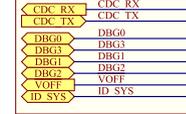


PIC16F13276

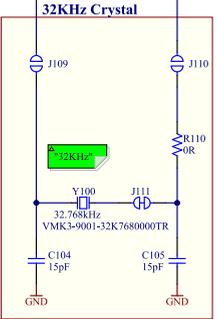
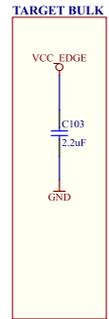
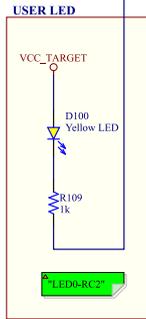
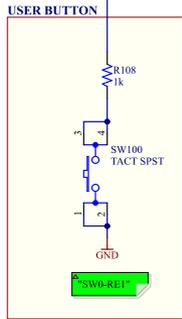
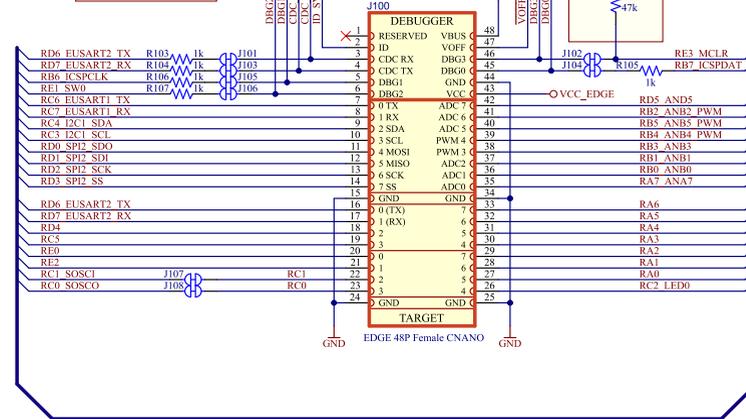
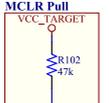
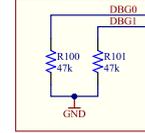


PIC16F13276		
Debugger	Name	Pin
CDC TX	EUSART2 RX	RD7
CDC RX	EUSART2 TX	RD6
DBG0	ICSPDAT	RB7
DBG1	ICSPCLK	RB6
DBG2	GPIO0	RE1
DBG3	MCLR	RE3
VTG	1.8V - 5.5V	

DEBUGGER CONNECTIONS



PROG/DEBUG Pull



Crystal datasheet:
 Crystal = 9pp
 max ESR = 70kOhm
 Accuracy ±20ppm

PIC16F13276 datasheet:
 C_{xin} = 5.0pF
 C_{xout} = 5.0pF
 C_{para} = 1/((1/5.0pF) - (1/5.0pF)) = 2.5pF
 Maximum Load = 18pF
 Maximum ESR = 100kOhm
 Estimated C_{pcb} = 0.25pF

Estimated load
 C = 2 (Crystal) - C_{para} - C_{pcb}
 C = 2 (9pF - 2.5pF - 0.25pF)
 C = 12.5pF

Selected in design after verification
 C = 15pF

NOTE on UART/CDC:
 RX/TX on the header denotes the input/output direction of the signal respective to it's source.
 CDC TX is output from the DEBUGGER.
 CDC RX is input to the DEBUGGER.
 TX is output from the TARGET device.
 RX is input to the TARGET device.

NOTE on I2C:
 No pull-ups on board. Pull-ups must be mounted close to client device(s).

Project Owner: TF			
PCB Layout Contact: TF			
PartNumber: EV15Z11A	Project Title: PIC16F13276 Curiosity Nano	Variant: Default Assembly	
Sheet Title: Target MCU			
Size: A3	SCH #: 02-01547	Rev: 2	Date: 11.02.2026
	PCB #: 04-12589	Rev: 1	Sheet 2 of 4
File: PIC16F13276_Curiosity_Nano_Target_MCU_SchDoc			