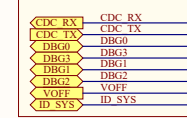


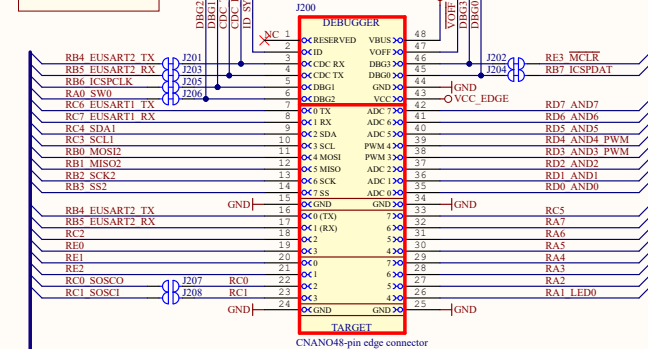
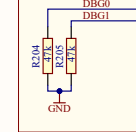
PIC16F18076

PIC16F18076		
Debugger	Name	Pin
CDC TX	EUSART2 RX	RB5
CDC RX	EUSART2 TX	RB4
DBG0	ICSPDAT	RB7
DBG1	ICSPCLK	RB6
DBG2	GPIO0	RA0
DBG3	MCLR	RE3
VTG	1.8V - 5.5V	

DEBUGGER CONNECTIONS



PROG/DEBUG PULL



CNANO48-pin edge connector

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 TARGET device.
TX is output from the TARGET device.
RX is input to the TARGET device.

NOTE ON I2C:

No pull-ups on board. Pull-ups should be mounted close to client device(s).

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

PIC16F18076 datasheet:
Cxin = 4.0pF (typical value)
Cout = 4.0pF (typical value)
CI = 1/(1/(4.0pF) + 1/(4.0pF)) ≈ 2.0pF
Maximum Load = 18pF
Maximum ESR = 100kOhm

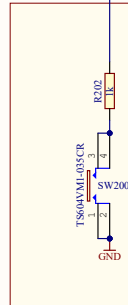
Estimated Cpcb = 0.5pF

Estimated load
C = 2 (Ccrystal - Cpcb - Cpcb)
C = 2 (9pF - 2.0pF - 0.5pF)
C = 13.0pF

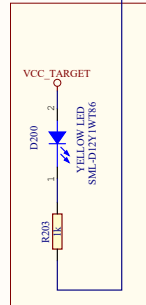
Selected in design after verification
C = 15pF/15pF

*Components selected for SOSC in (HP) high power mode.

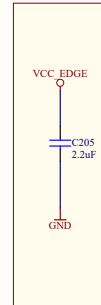
USER BUTTON



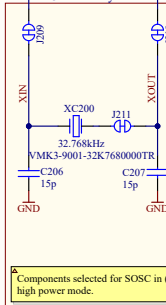
USER LED



TARGET BULK



32KHz Crystal



Drawn By:
ST
Engineer:
ST

Project Title
PIC16F18076 Curiosity Nano

Target MCU

Size A3 PCB Assembly Number: A09-3454 PCHA Revision: 4

PCB Number: A08-3140 PCB Revision: 2

File: PIC16F18076 Curiosity Nano Target MCU_SchDoc



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