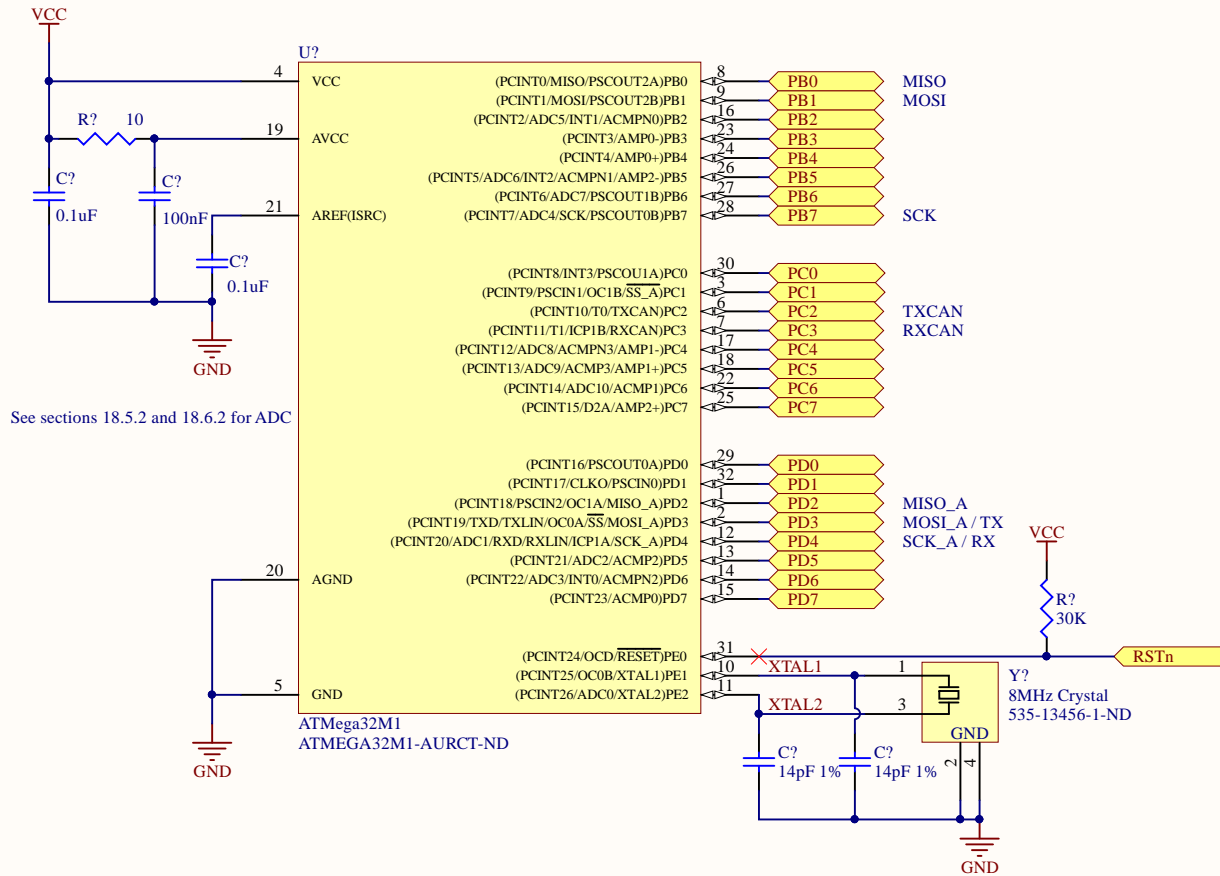
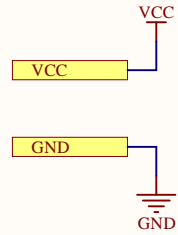


POWER INPUT



See sections 18.5.2 and 18.6.2 for ADC

This schematic implements the ATmega32M1 microcontroller with a 8 MHz external crystal and necessary power connections.

- Crystal is connected in a Pierce configuration, values of the capacitors were calculated based on the capacitance of the crystal and ESR.
- I would read through 18.5.2 and 18.6.2 of the complete 32M1 datasheet if you're interested in the motivation behind the ADC input connections. They recommend connecting AVCC through a RC lowpass network to minimize noise.
- If the ADC functionality of the device is used, either AVCC or the internal 2.56 V source can be selected in software as the reference voltage.

Title		UTAT SS	
ATmega32M1			
Size	Number	Revision	
A4	*	1.0	
Date:	2018-09-26	Sheet *	of *
File:	C:\Users\...\micro-ATMEGA32M1.SchDoc Drawn By: Dylan Vogel		