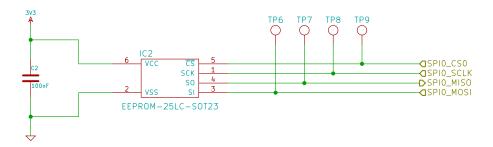


Test SPI by writing some data to the EEPROM on SPI0 then reading it back



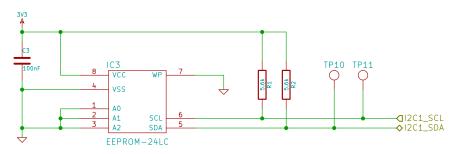
Notes:

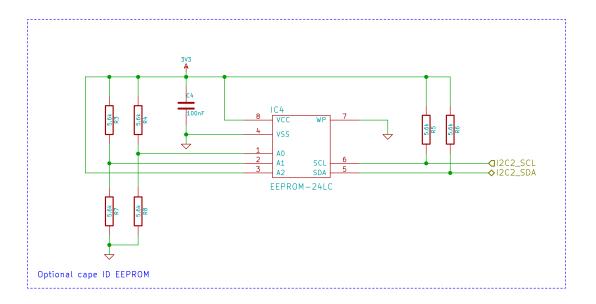
1. Software should randomize start address to prolong EEPROM life



-	File: UTCape-SPI.sch					
ı	Sheet: /SPI Wiring/					
ı	Title: SPI Unit Test Wiring					
ı	Size: A4	Date: 24 mar 2015		Rev:		
•	KiCad E.D.A.			ld: 3/9		
_		h				

I2C can be tested be writing data to the EEPROM on I2C1 and then reading it back



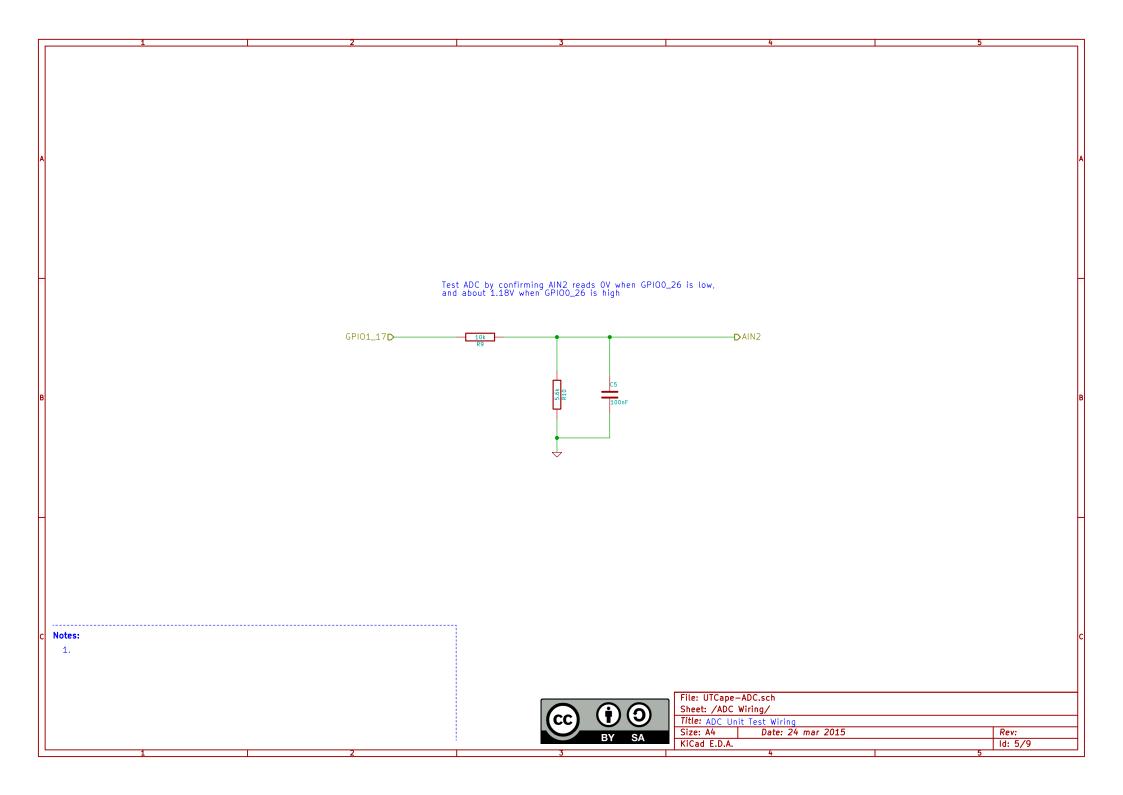


Notes:

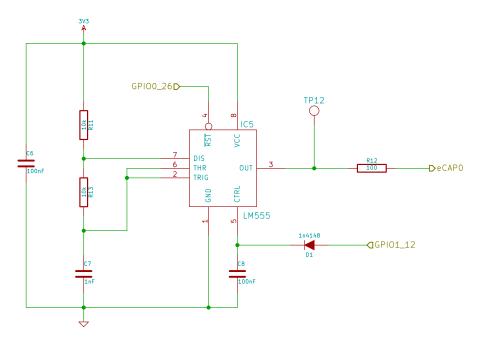
- 1. The cape ID EEPROM isn't good for testing because the BBB muxes the I2C2 pins at boot, whereas the I2C1 pins must be muxed from userspace before using
- 2. Software should randomize start address to prolong EEPROM life



	File: UTCape-	-I2C.sch				
	Sheet: /I2C Wiring/					
	Title: I2C Unit Test Wiring					
	Size: A4	Date: 24 mar 2015	5	Rev:		
	KiCad E.D.A.			ld: 4/9		
т		h				



When GPI01_12 is high eCAPO should measure 21kHz, when GPI01_12 is low it should measure 36kHz



Notes:

1. GPI00_26 must be set high to enable the astable circuit to test the eCAP. It can be set low when not in use to avoid noise coupling



	File: UTCape-	-eCAP.sch			
ı	Sheet: /eCAP Wiring/				
L	Title: eCAP U	nit Test Wiring			
	Size: A4	Date: 24 mar 2015		Rev:	
	KiCad E.D.A.			ld: 6/9	
		<i>h</i>	5		

