

Prototyping Functions

- Step-by-step Functionality (Demos)
 - Read A/D

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Prototyping Functions

- Step-by-step Functionality (Demos)
 - GP Output (GPIO – General Purpose I/O)->Square Wave->Clock
 - Read A/D
 - I2C/SMBus (Wire)
- Optional WiFi
 - STA (station)
 - AP (access point)
- Optional Energia
- UI
 - Button (GP Input - GPIO, add debounce)
 - LCD Display (“Hello”)
 - Music
- UI - Serial Interface (i.e. Putty for echo “Hello World”)

Example Pin Map – Analog A/D

- Who doesn't need to read an A/D?



LaunchPad with MSP430G2553 Revision 1.5

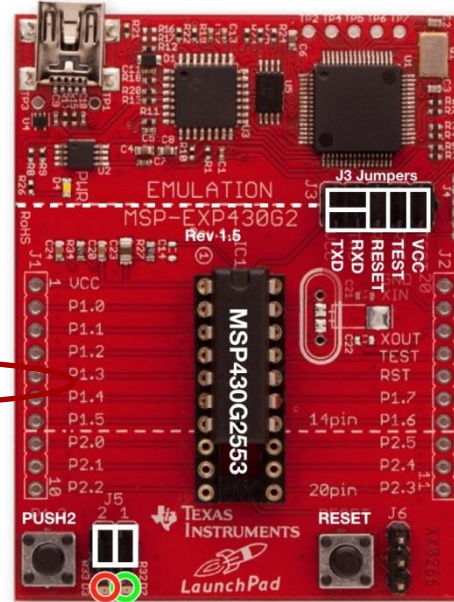
Flash 16 KB
RAM 512 B

Serial	Hardware
ADC	10 bits
Use pins numbers only!	
Default I ² C = (1)	
Software I ² C (1) master only	
PWM 4 or 14 or 19	
PWM 9 or 10	
PWM 12 or 13	

+3.3V				1
RED_LED		A0	P1_0	2
	RXD	A1	P1_1	3
		A2	P1_2	4
	PUSH2	A3	P1_3	5
		A4	P1_4	6
	SCK (B0)	A5	P1_5	7
	CS (B0)		P2_0	8
	SCL (1)		P2_1	9
	SDA (1)		P2_2	10

temperature A10

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Hardware
Pin number

I²C
Serial UART
SPI

analogRead()
digitalRead() and digitalWrite()
digitalWrite() and analogWrite()

20				GROUND
19	P2_6			XIN
18	P2_7			XOUT
17				TEST
16				RESET
15	P1_7	A7	SDA (0) MOSI (B0)	
14	P1_6	A6	SCL (0) MISO (B0)	GREEN_LED
13	P2_5			
12	P2_4			
11	P2_3			

GND
GND
+3.3V

- <http://www.energia.nu/pinmaps/msp-exp430g2/>

