ARM DEVELOPMENT BOARD-LPC2129/LPC2148

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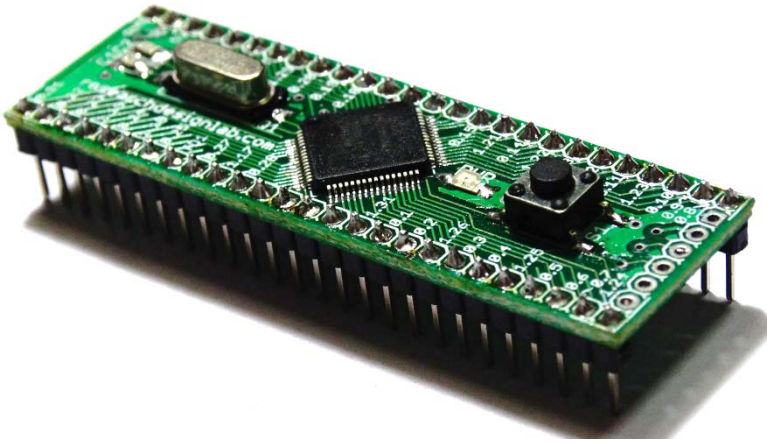
OVERVIEW

LPC2129/LPC2148 is a single-chip 32-bit microcontroller with 256KB on-chip Flash ROM with In-System Programming (ISP) and In-Application Programming (IAP) 16KB RAM having Real Time Clock, Watchdog Timer, General purpose I/O pins. CPU clock up to 60 MHz, On-chip crystal oscillator and On-chip PLL. This IC also supports Interrupt Controller, 2 SPI serial interfaces, Two UARTs, I2C serial interface, PWM unit with up to 6 PWM outputs, Two timers (7 capture/compare channels), 4-channels 10bit ADC, 2 CAN channels.

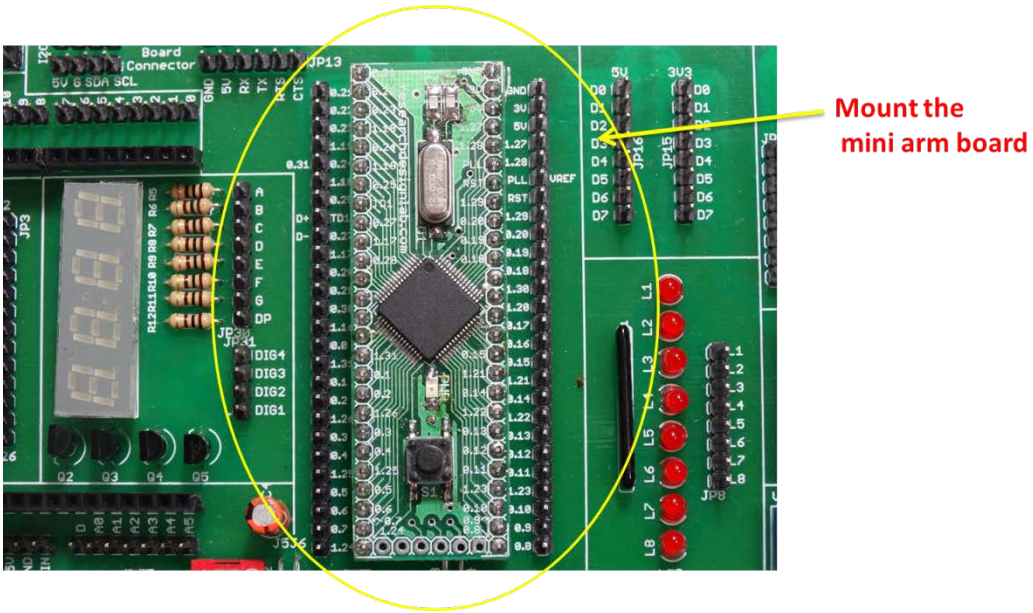
FEATURES

- On Board Power LED Indicator.
- On Board 12 MHz Crystal Oscillator.
- On Board 3.3V Regulator.
- On Board 1.8V Regulator.
- All Port Pins available at Berge Strip.
- Includes FT232 Breakout Board.
- High quality PCB FR4 Grade with FPT Certified.



CONNECTIONS

- Mount the arm mini board as shown in pic



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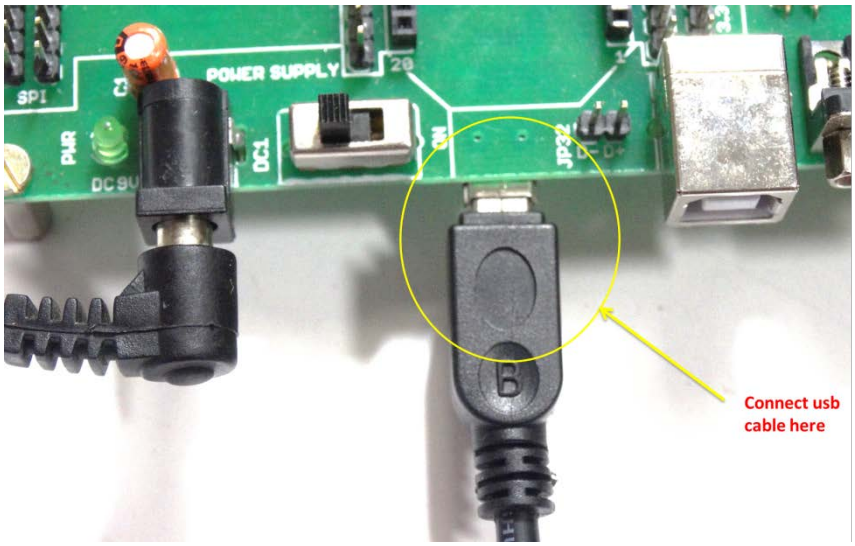
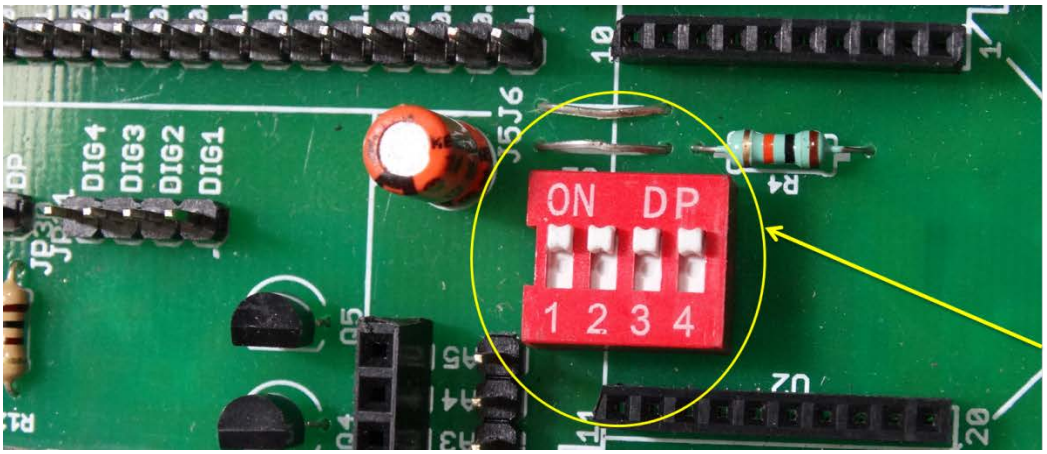
- Connect the USB cable as shown in the fig.



- make DIP Switch High



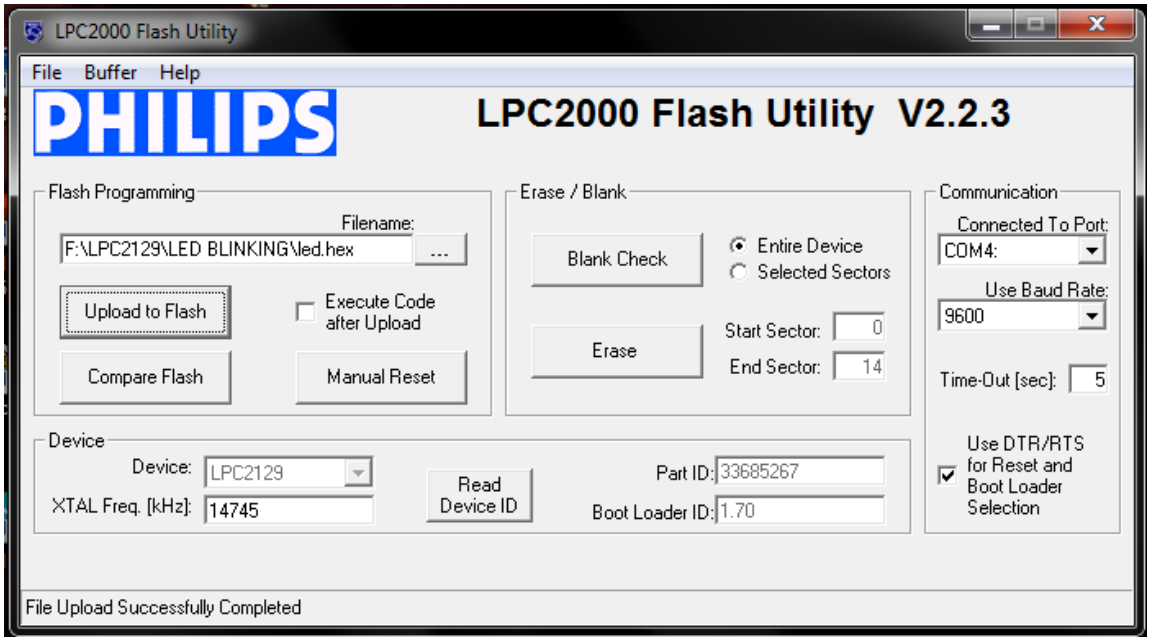
Software

https://drive.google.com/folderview?id=0BzrGD4zr88GnMTZiOFEzYWJhcUE&usp=sharing#

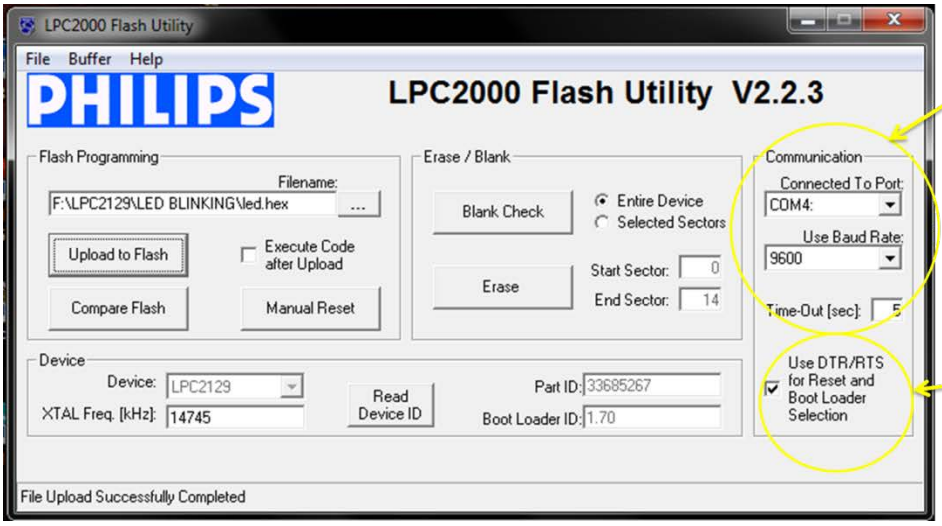
- download the Philips Flash Utility software
- download LPC2129 folder for programs

BURNING THE CODE IN PHILIPS FLASH UTILITY SOFTWARE

- open the Philips utility software

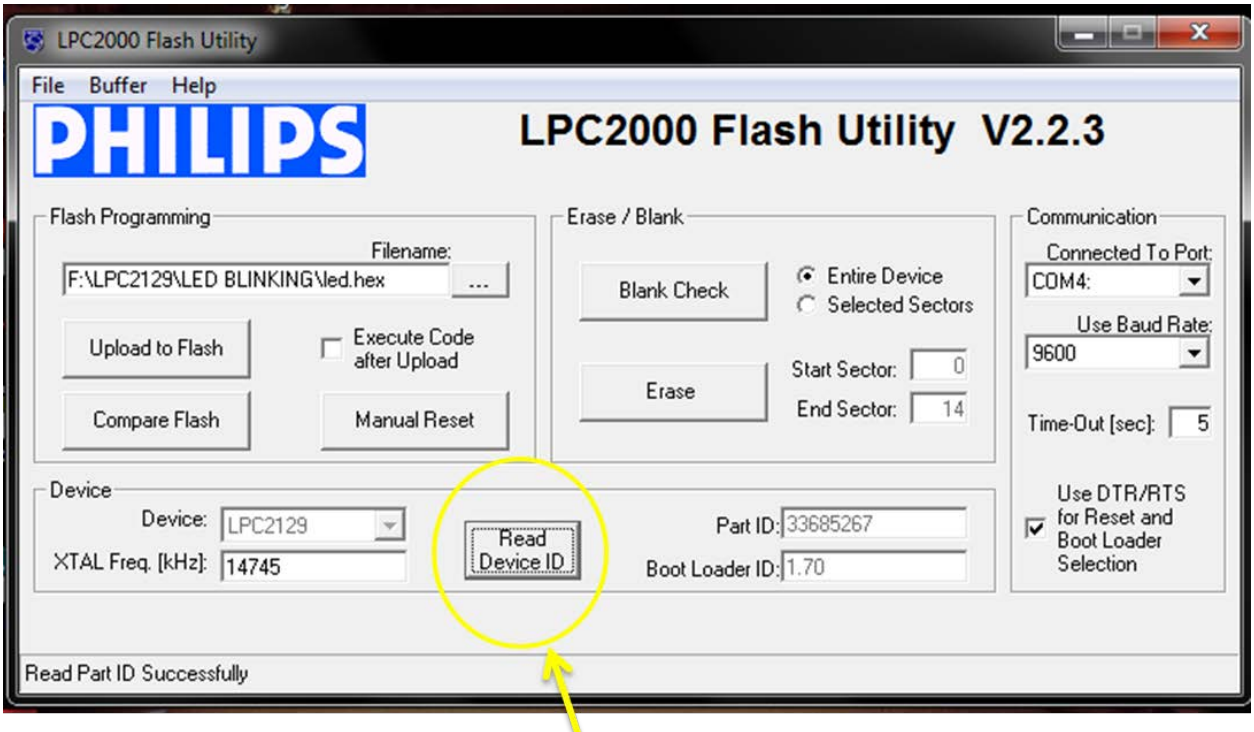


- go to device manager and set the com port to com 4 or anything less than that because in Philips software we can select com from 1 to 5 only

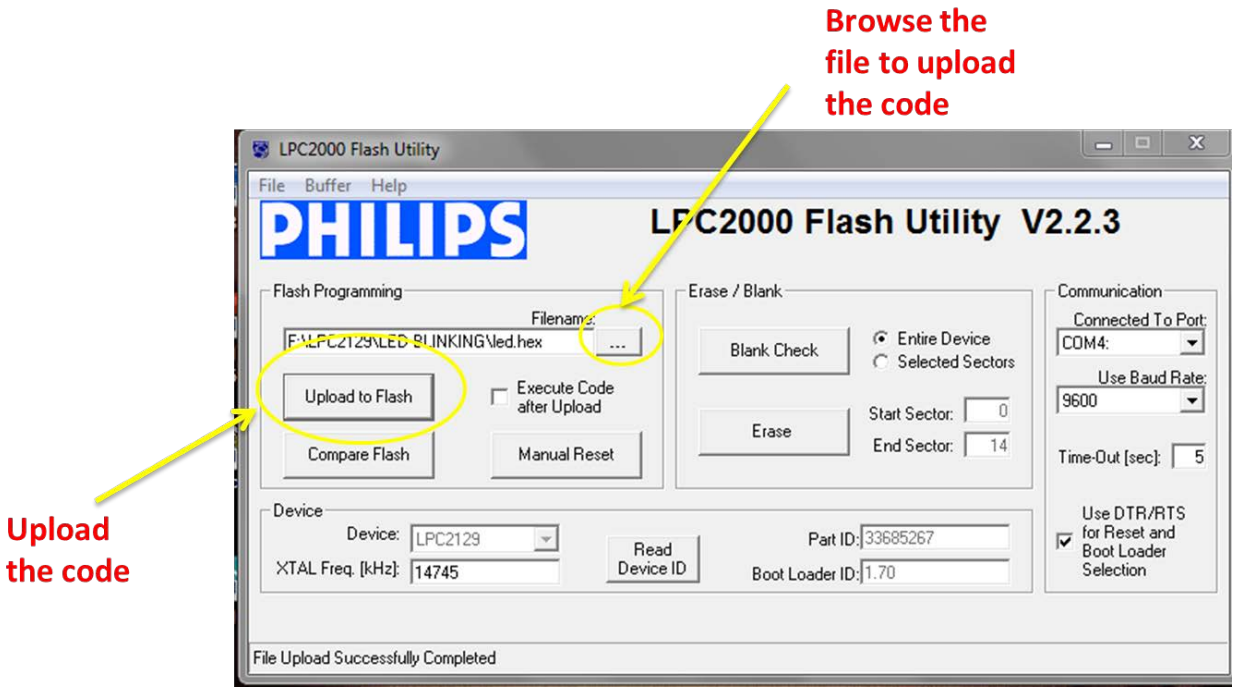


Select the com which you have set and select baud rate as 9600

Tick this box



Click on Read device to check if the arm is connected properly or not



CODE

- LED blinking

  http://researchdesignlab.com/arm-lpc2129-ledblink-code.html

- 7 segment
  http://researchdesignlab.com/arm-lpc2129-7segment-code.html

- LCD
  http://researchdesignlab.com/arm-lpc2129-lcd-code.html

- Keypad
  http://researchdesignlab.com/arm-lpc2129-keypad-code.html

- UART
  http://researchdesignlab.com/arm-lpc2129-uart-code.html

- ADC
  http://researchdesignlab.com/arm-lpc2129-adc-code.html