



## **Table of Contents**

OVERVIEW	3
FEATURES	3
PIN CONFIGURATION	4
Software	5
BURNING THE CODE IN PHILIPS FLASH UTILITY SOFTWARE	5
CODE	8

#### **OVERVIEW**

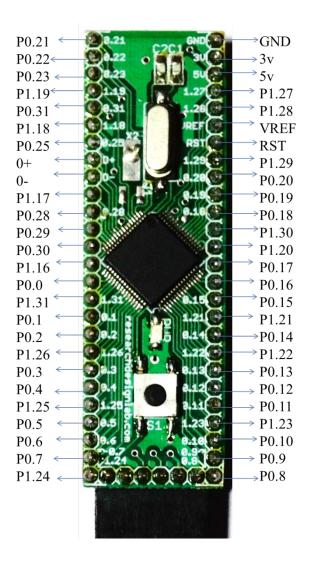
LPC2148 is a single-chip 32-bit microcontroller with 256KB on-chip Flash ROM with In-System Programming (ISP) and In-Application Programming (IAP) 16KB RAM having Real Time Clock, Watchdog Timer, General purpose I/O pins. CPU clock up to 60 MHz, On-chip crystal oscillator and On-chip PLL. This IC also 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**

- Includes NXP LPC 2148 Microcontroller.
- 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.



#### **PIN CONFIGURATION**



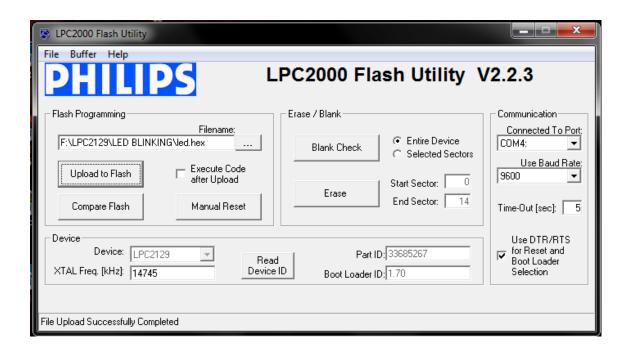
#### **Software**

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

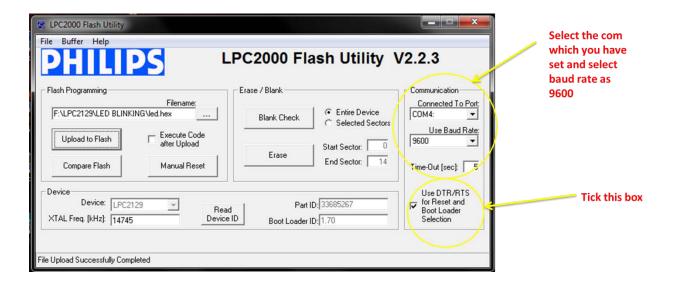
- download the Philips Flash Utility software
- download LPC2129 folder for programs

#### BURNING THE CODE IN PHILIPS FLASH UTILITY SOFTWARE

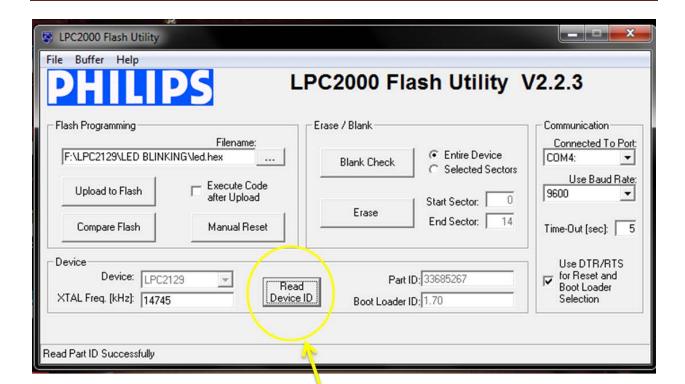
open the Philips utility software



• 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







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

**Browse the** 

file to upload the code S LPC2000 Flash Utility LFC2000 Flash Utility V2.2.3 Erase / Blank Connected To Port Entire Device FALPC2129/LED SUNKING/led.hex COM4: Blank Check C Selected Sectors Use Baud Rate: Execute Code Upload to Flash 9600 after Upload Start Sector: Erase End Sector: Manual Reset Compare Flash Time-Out [sec]: Use DTR/RTS for Reset and Boot Loader **Upload** Device: LPC2129 Ψ Part ID: 33685267 Read Device ID the code XTAL Freq. [kHz]: 14745 Boot Loader ID: 1.70 Selection File Upload Successfully Completed

#### **CODE**

LED blinking

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

- 7 segment <a href="http://researchdesignlab.com/arm-lpc2129-7segment-code.html">http://researchdesignlab.com/arm-lpc2129-7segment-code.html</a>
- 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 <a href="http://researchdesignlab.com/arm-lpc2129-adc-code.html">http://researchdesignlab.com/arm-lpc2129-adc-code.html</a>