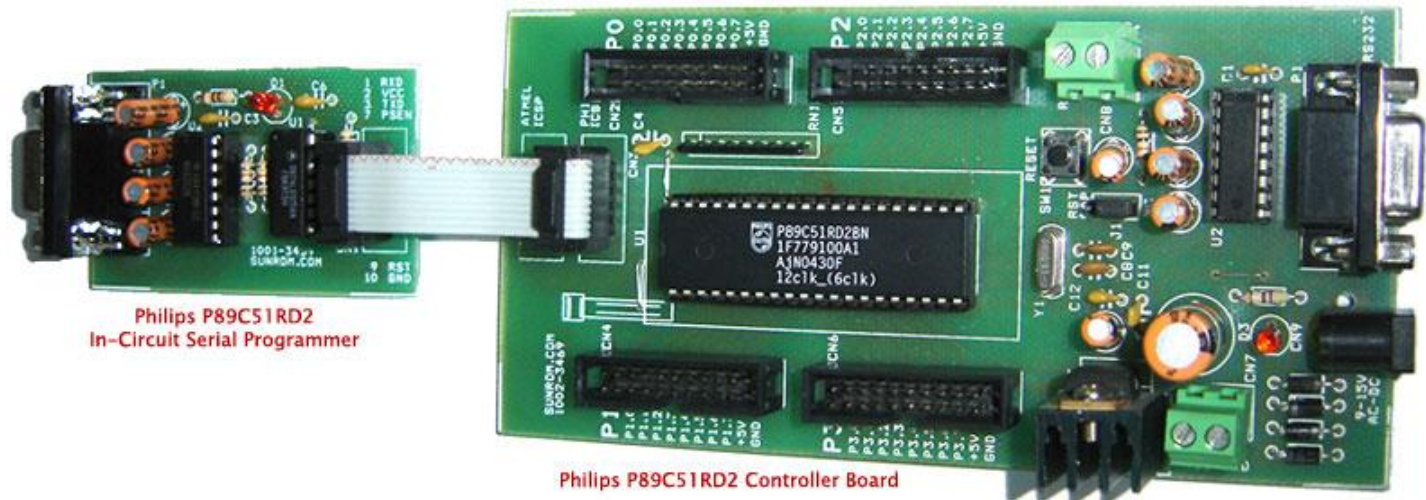


P89C51RD2 Controller Board with ICSP Programmer



1. Overview

Versatile, easy-to-use, general-purpose controller using the popular Philips P89C51RD2 microcontroller. The board includes no more than is absolutely necessary for a basic controller, thus keeping the cost and board size to a minimum. All of the individual pins have been brought out to standard four .1"-spaced headers to accommodate interfacing to almost any kind of circuitry. It is designed for use in applications ranging from robotics to industrial controller applications.

2. Features

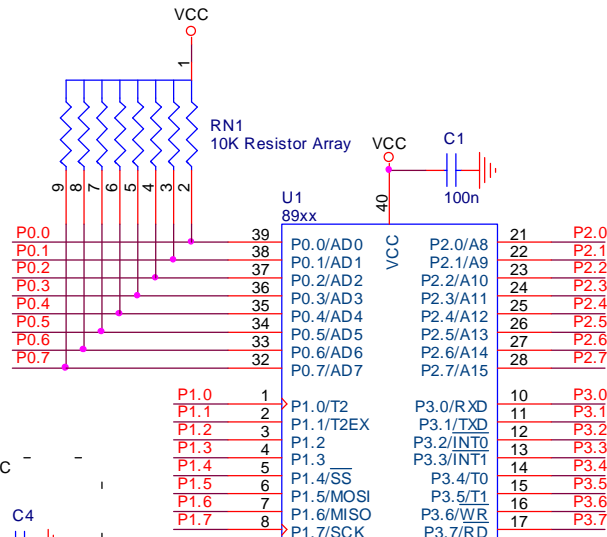
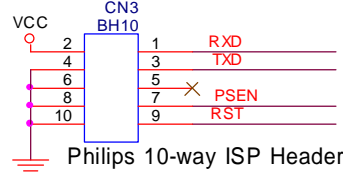
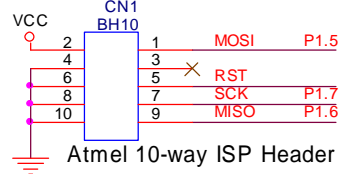
- Philips P89C51RD2 with 11.0592 Mhz Crystal Oscillator
- Operates over a wide range of supply voltage: 7 to 15 Volts
- On-Board 1 Amp Power Supply & Power Indicator LED
- On-Board Reset Switch
- ICSP for In-System-Programming
- On-Board RS232 Port for direct connection to PC's Serial Port

3. Specifications

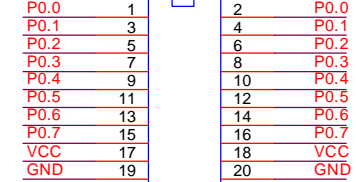
- 64 KB ISP Capable Flash Memory
- 1 KB RAM
- 80C51 Central Processing Unit
- On-chip Flash Program Memory with In-System Programming
- 4 level priority interrupt
- 8 interrupt sources
- Four 8-bit I/O ports
- Full-duplex enhanced UART
- Power down mode
- Second DPTR register
- Asynchronous port reset
- Low EMI (inhibit ALE)
- Programmable Counter Array (PCA) / PWM / Capture/compare

4. Schematic

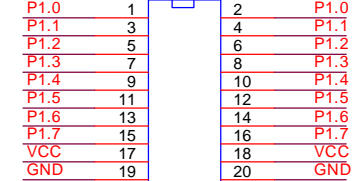
In System Programming



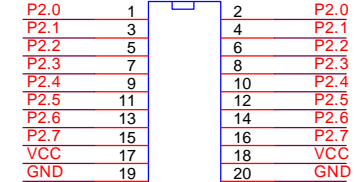
PORT0



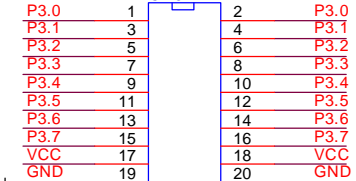
PORT1



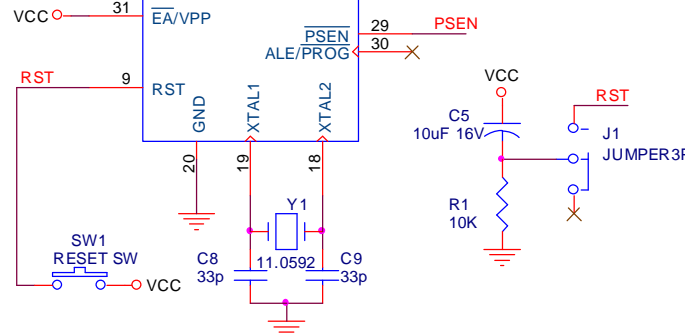
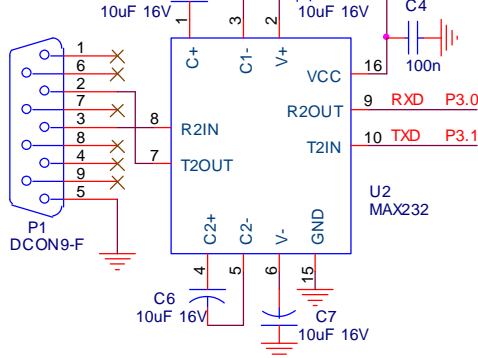
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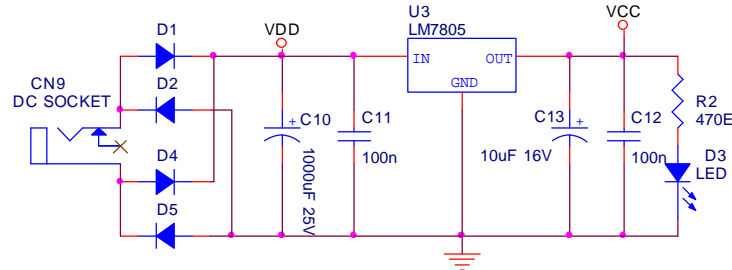
PORT3



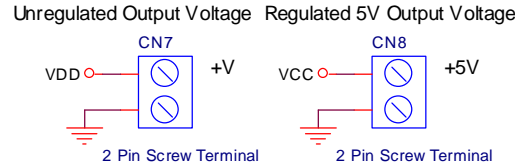
RS232



POWER INPUT AND REGULATOR



POWER OUT



Sunrom Technologies		http://www.sunrom.com	
Title 8051 Microcontroller Development Board			
Code 1002-3469		Rev	1
Date: Monday, December 04, 2006		Sheet 1	of 1

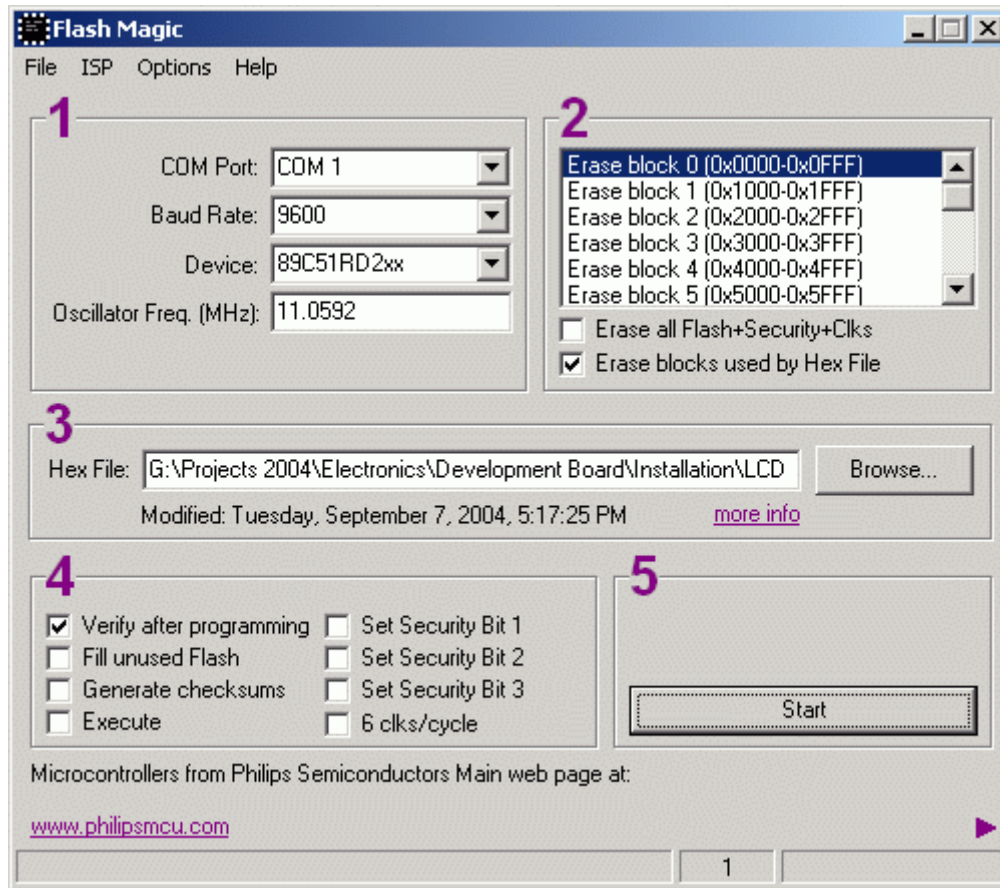
5. Programming software

Start setup by clicking FlashMagic.exe, and follow setup instructions.

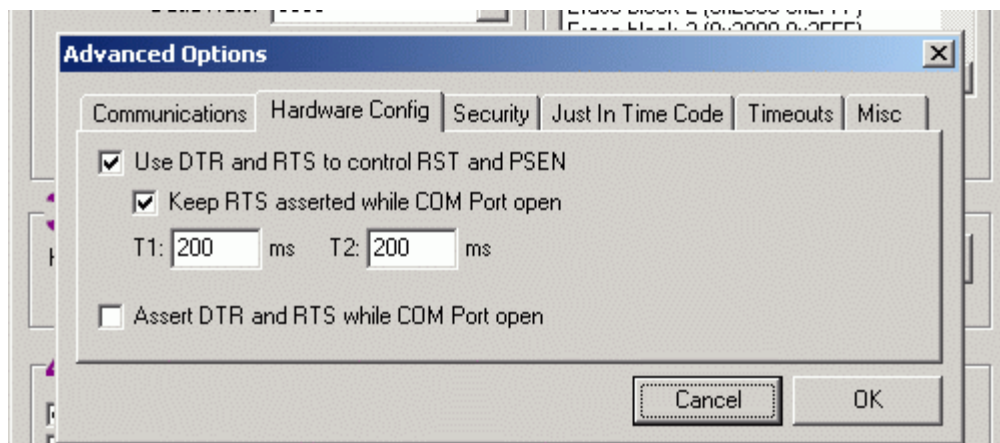
Once installed start Flash Magic from Start Menu > All Programs > Flash Magic

Following main screen is displayed, Change options on main screen as shown below.

Select appropriate serial port present on your PC.



Additional Setup includes going to Options > Advanced Options and setting as below



6. Package Includes

- Fully Assembled and Tested Controller Board and ICSP Programmer Board
- Flat Ribbon Cable connecting between Controller Board and Programmer
- Serial Port Cable for Programmer
- CDROM containing Schematic, Programming Software and User Manual

7. Ordering Information

Part Number	Description
1002-3469	Philips P89C51RD2 Controller Board with ICSP Programmer
1002-3468A	Atmel AT89S52 Controller Board with ICSP Programmer

8. Also Available

Atmel AT89S52 Controller Board with ICSP Programmer

http://www.sunrom.com/index.php?main_page=product_info&cPath=35&products_id=139



9. Disclaimer

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10. Contact Sunrom Technologies



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