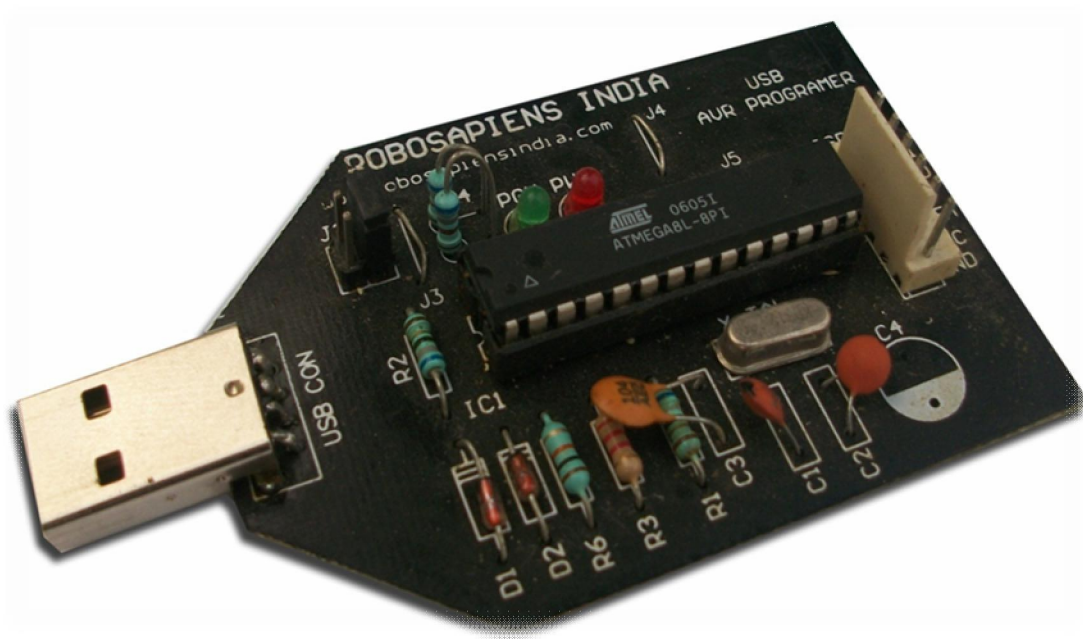


Robosapiens USB Programmer for AVR Microcontrollers



User Manual

Robosapiens India

<http://www.robosapiensindia.com>

info@robosapiensindia.com

Thanks for purchasing **Robosapiens's USB programmers for AVR Microcontrollers**. This programmer is specially designed to program AVR Microcontrollers via USB Port. This document covers detail features of this product with step by step screen shots of handling procedure

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Features:

- Small Size.
- 6 Pin ISP Connector
- Indicator LED (Red) for Power
- Indicator LED (green) for writing status.
- Free open source software like Win AVR, AVR Dude compatible.
- Does not require any power to program the target microcontroller.
- Clear indication on the PCB indicating position of different pin configuration.
- Works under many platforms like Linux, Mac OS X and Windows.
- SCK option (Jumper J2) to support targets with low clock speed (< 1,5MHz).
- Low Cost.
- Programming up to 5Kbyte per second.
- No special controllers or SMD components are needed.
- On Linux no and Mac OS X kernel driver is needed. Windows require a driver for this product.
- Jumper Setting
 1. J1 = For Self Programming
 2. J2 =Speed Control of data transfer
 - i. J2 is Set=Slow Speed
 - ii. J2 is Open =High Speed

Package contains:

3. **Win Avr:** Open source software development tool for the Atmel AVR series Microcontroller.
4. **AVR Loader V1.0:** This software is GUI for AVR Dude. AVR Dude is an open source utility to download, upload and manipulate the ROM and EEPROM contents of AVR microcontrollers using the in-system programming technique (ISP). For more documentation of avrdude visit: www.nongnu.org/avrdude/
5. **USB Drivers:** Drivers for Windows.
6. **User Manual**

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Install a driver

You can download a last driver from <http://www.micro4you.com/store/usbasp-avr-usb->

[lsp/prod_52.html](#) (USBasp-driver-0.1.12.1.zip)

1. Connect USB cable to USBASP and connect cable directly to USB port of computer.

(You must supply power to USBASP)

2. Wait for windows information "New Hardware Found USBASP". If device isn't Detected.



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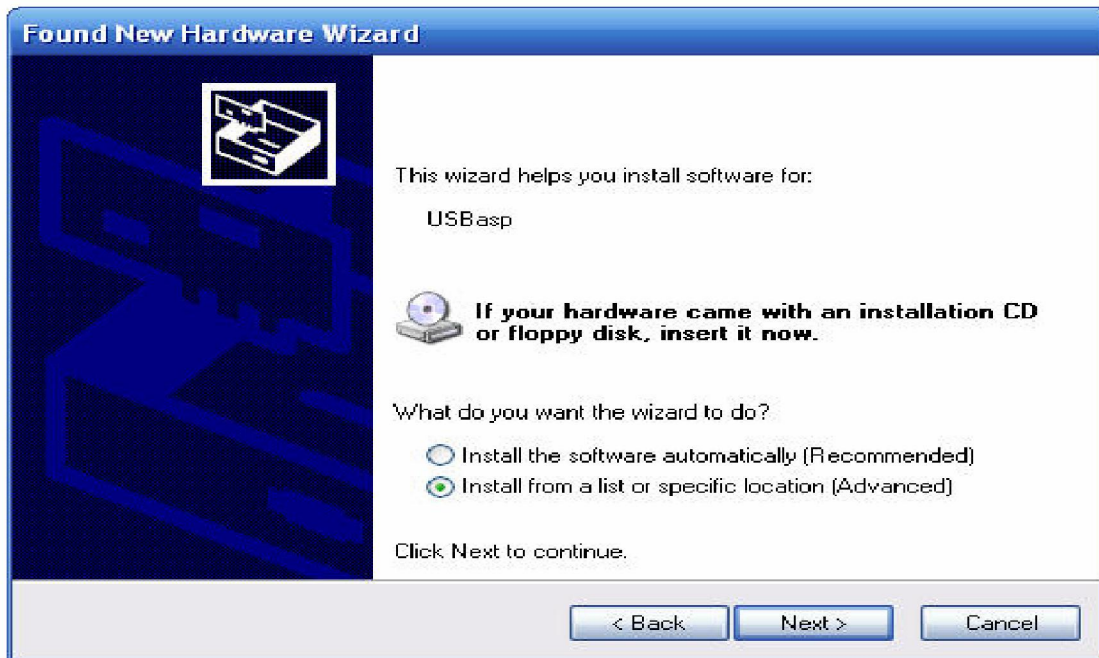
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3. After device is detected Driver setup wizard opens. Select where USBASP driver is located. It is in directory you've downloaded with firmware. If you unpacked in C: drive, than driver should be in C:\usbasp.2007-10-23\bin\win-driver\ and press next.

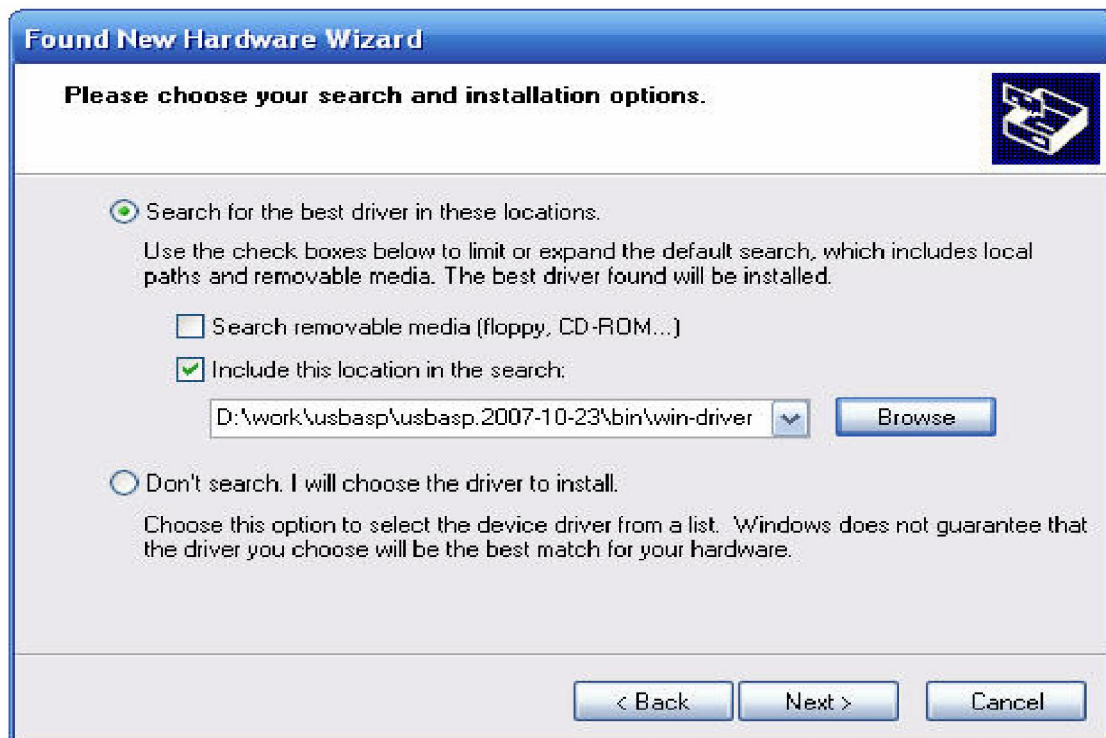


- Select Install from a list or specific location (Advanced)

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- Select location of a driver (C:\usbasp.2007-10-23\bin\win-driver\) and press **Next**



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- Wait while installing

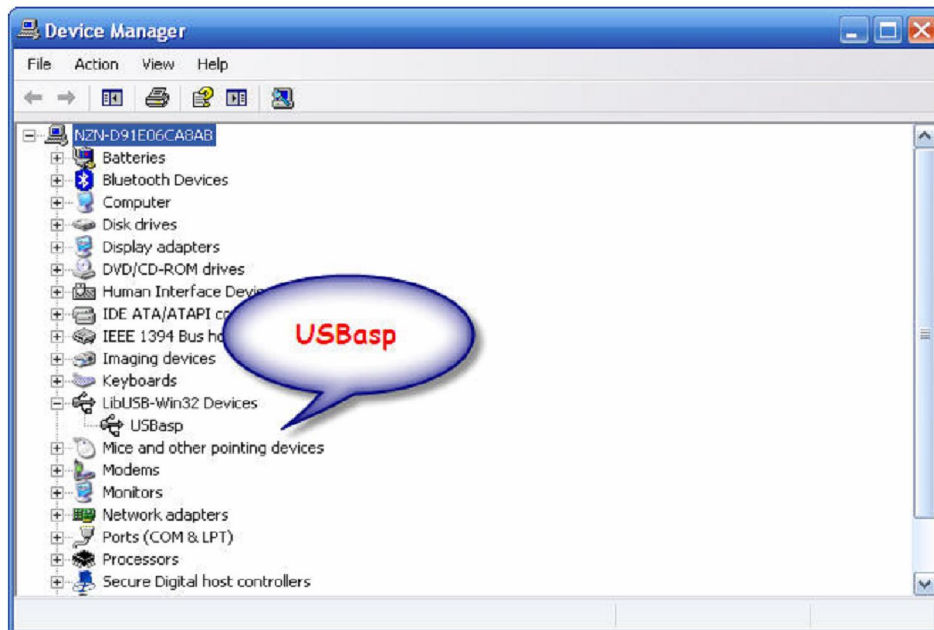


- When install completed, Press Finish button

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4. After successful setup you should see following view in device list.

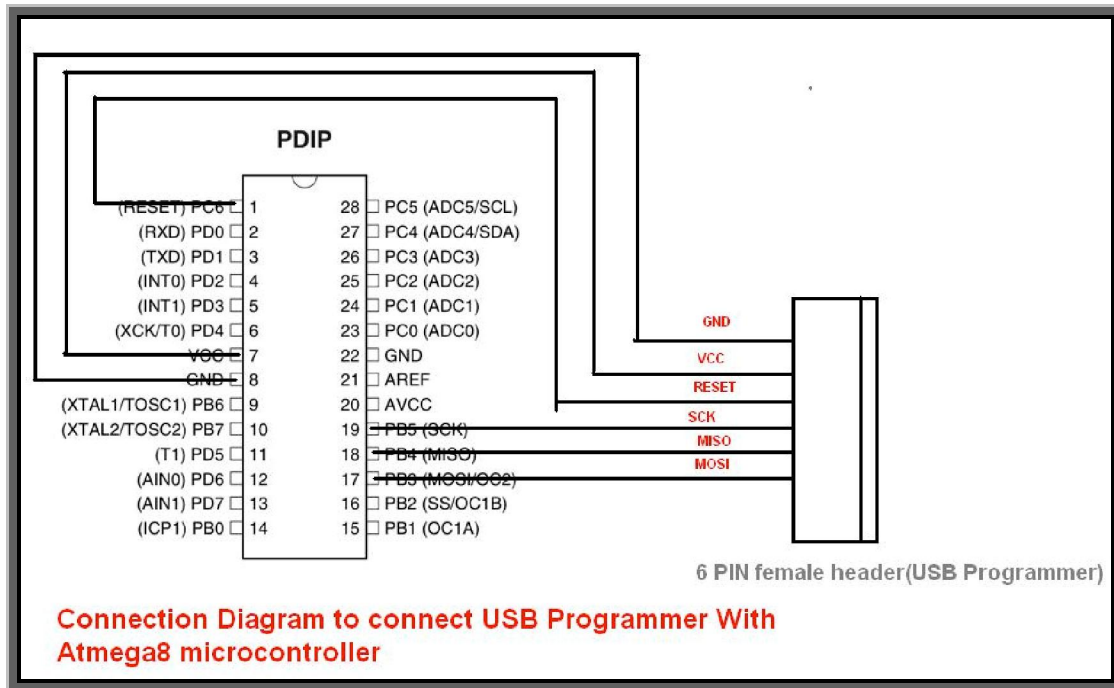


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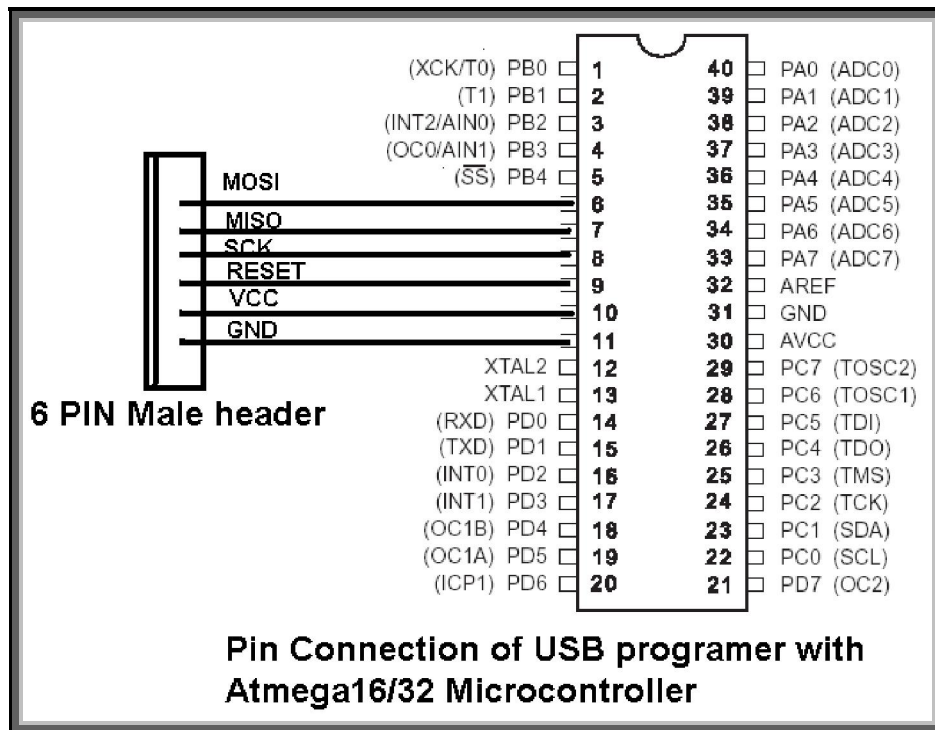
<mailto:info@robosapiensindia.com>

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Connecting USBasp with ATmega8



Connecting USBasp With ATmega16

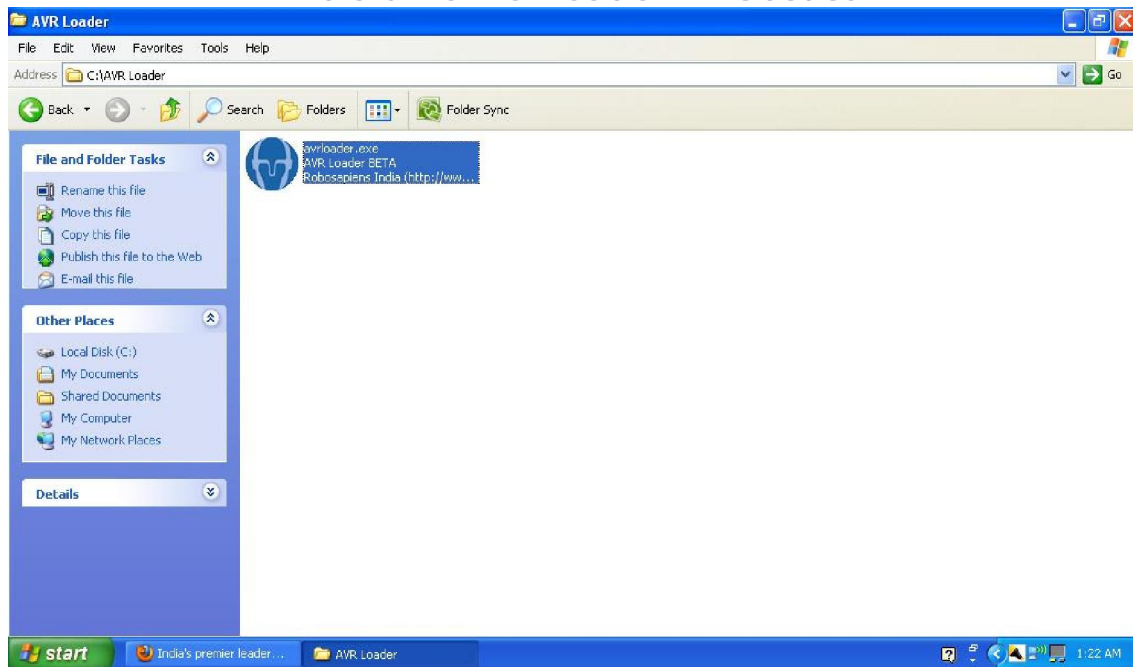
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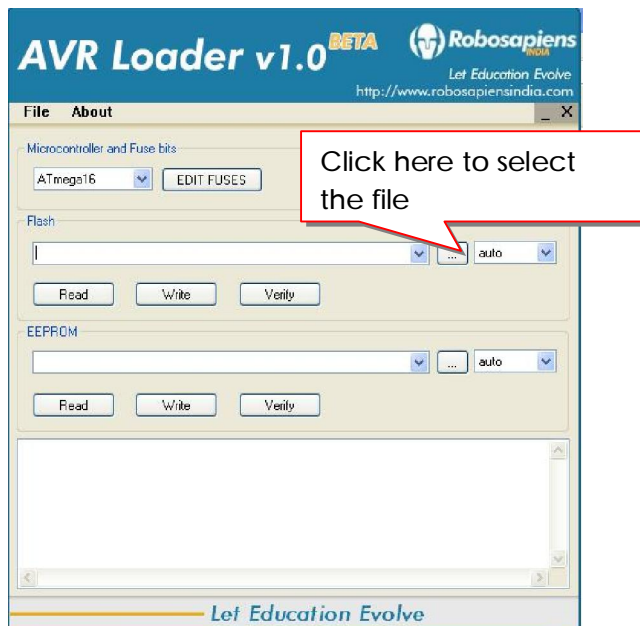
Steps for using the AVR Loader:

1. Click on the file **avrloader.exe**

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2. This window will get displayed. Click the marked:



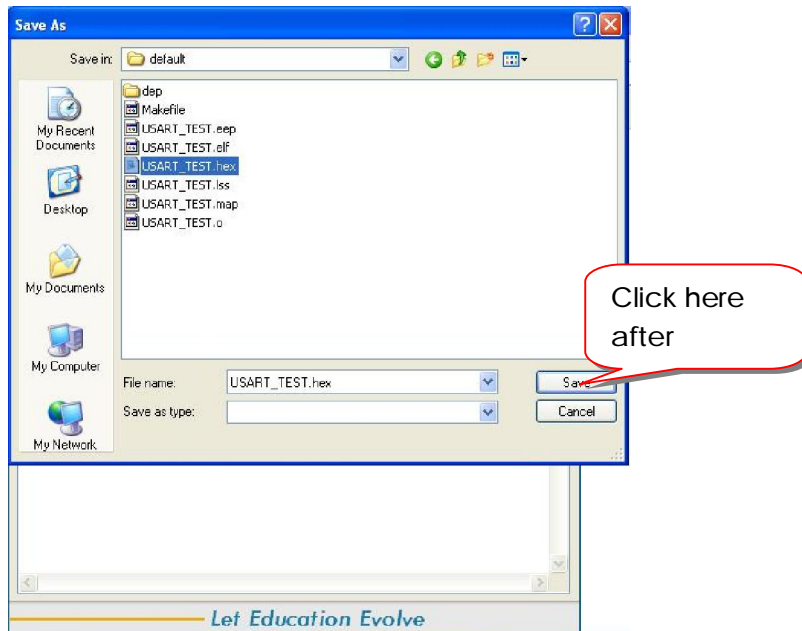
3. Go to your application folder and select only **.hex** File:

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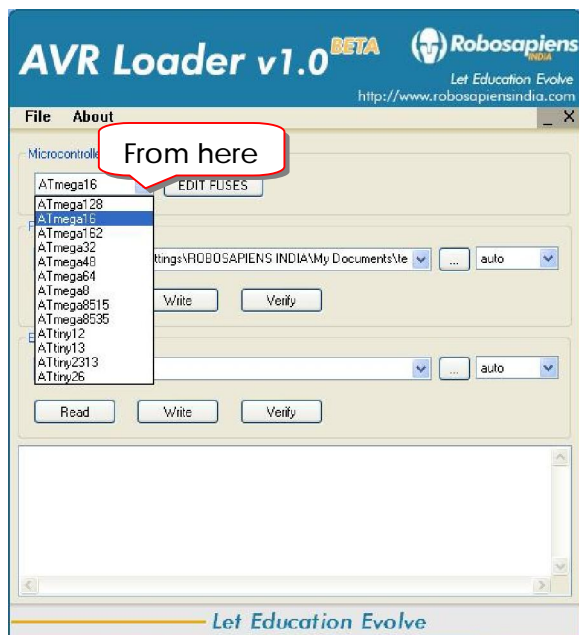
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4. Select Microcontroller form the list:



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5. Now, Click on Write button to burn the code into microcontroller.

When code gets written properly, you get this message box:

