

JTAGcable II In Circuit Emulator for Atmel AVR microcontrollers

Firmware upgrade

Introduction

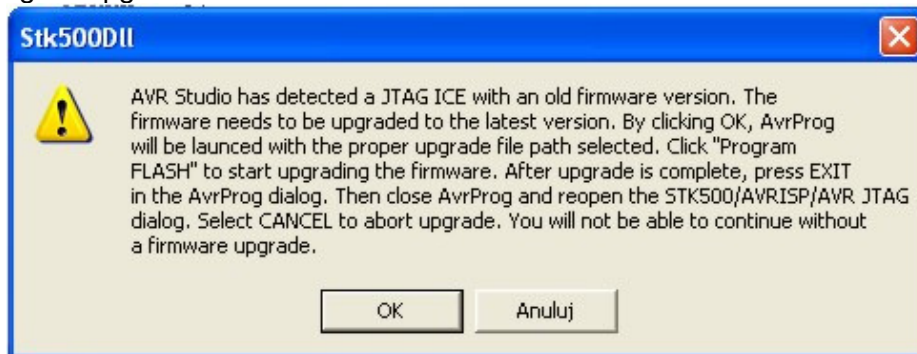
Firmware upgrading is done automatically, when AVR Studio detects that firmware version in JTAGCable II is older then version of AVR Studio. You can't continue working with JTAGcable II without firmware update.

Important:

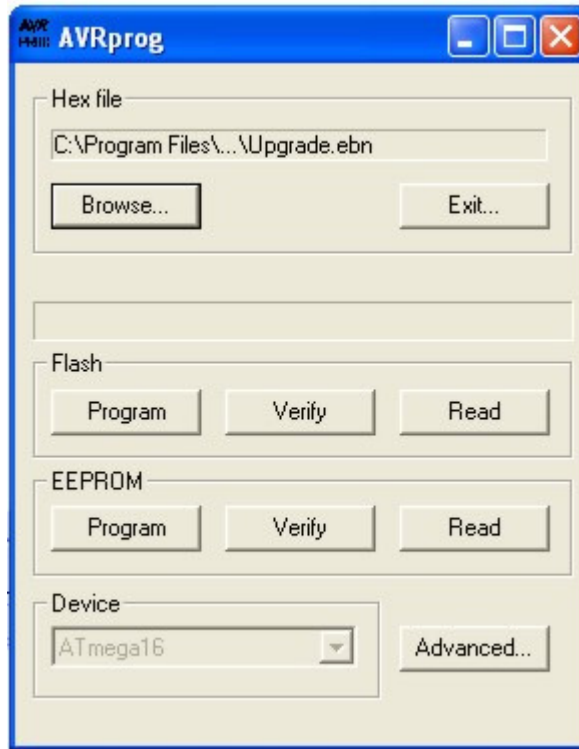
Programmer COM port number, have to be selected as COM4 or lower. For COM5 and greater numbers, AVR Studio will not upgrade firmware. See procedure for COM port number change at end of this document.

Procedure for automatic firmware upgrade

After connecting to JTAGcable II, AVR Studio detects old firmware version and show a dialog asking for upgrade.



After accepting, another dialog will show up. If "Hex file" field is empty click "Browse..." button and point path to "Upgrade.ebn" file in "JTAG ICE" folder of your AVR Studio install folder. (Typical path is „C:\Program Files\Atmel\AVR Tools\JTAGICE”)



„Program” button in „Flash” group will upload correct version of firmware. After finished uploading, JTAGcable II have to be restarted (by disconnecting and connecting again USB cable). Programmer is now ready for further usage.

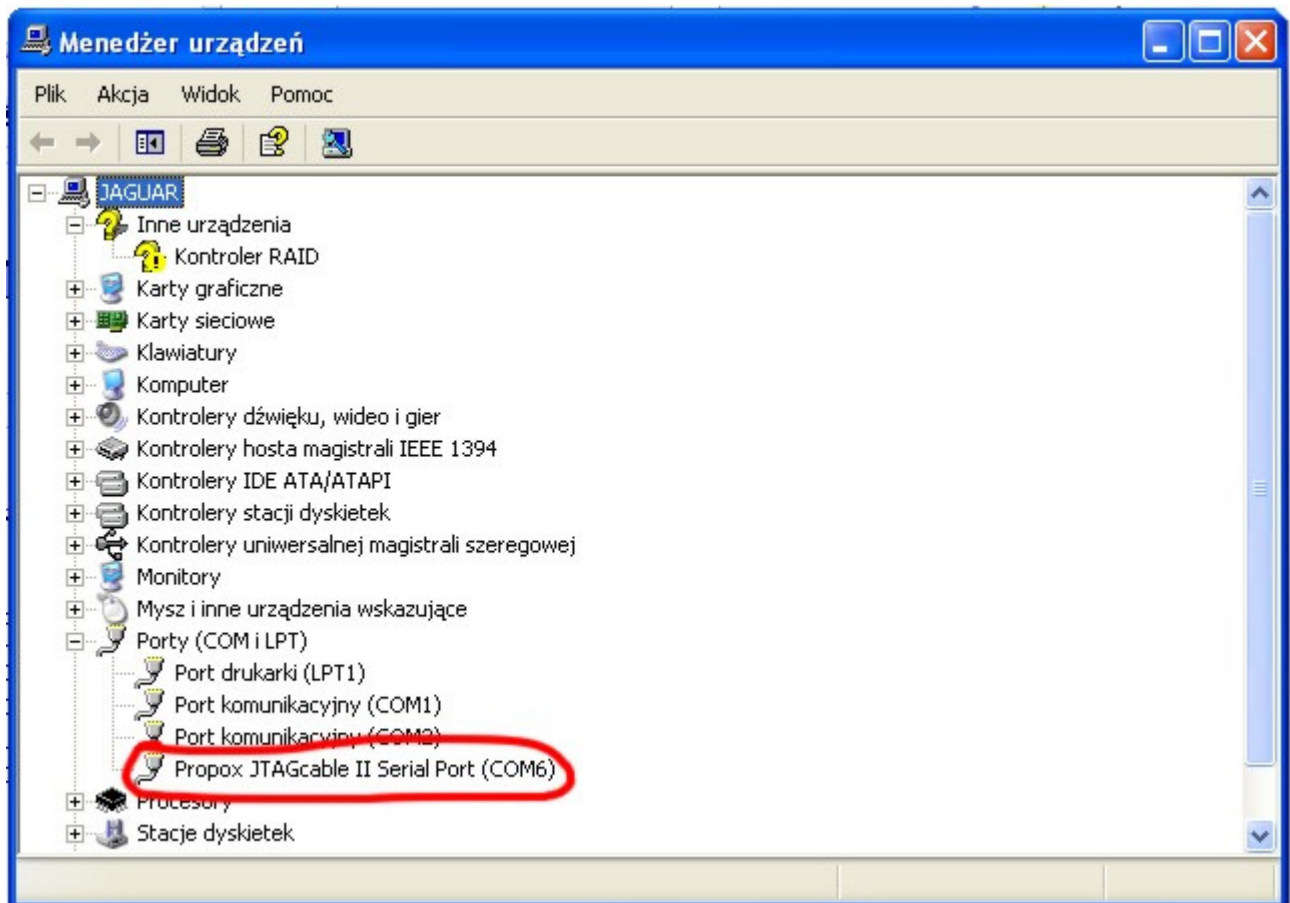
If during update error occur (This may happen if communication during uploading will fail, or wrong file will be uploaded) you will have to manually upgrade JTAGcable II firmware.

Procedure for manual firmware upgrade

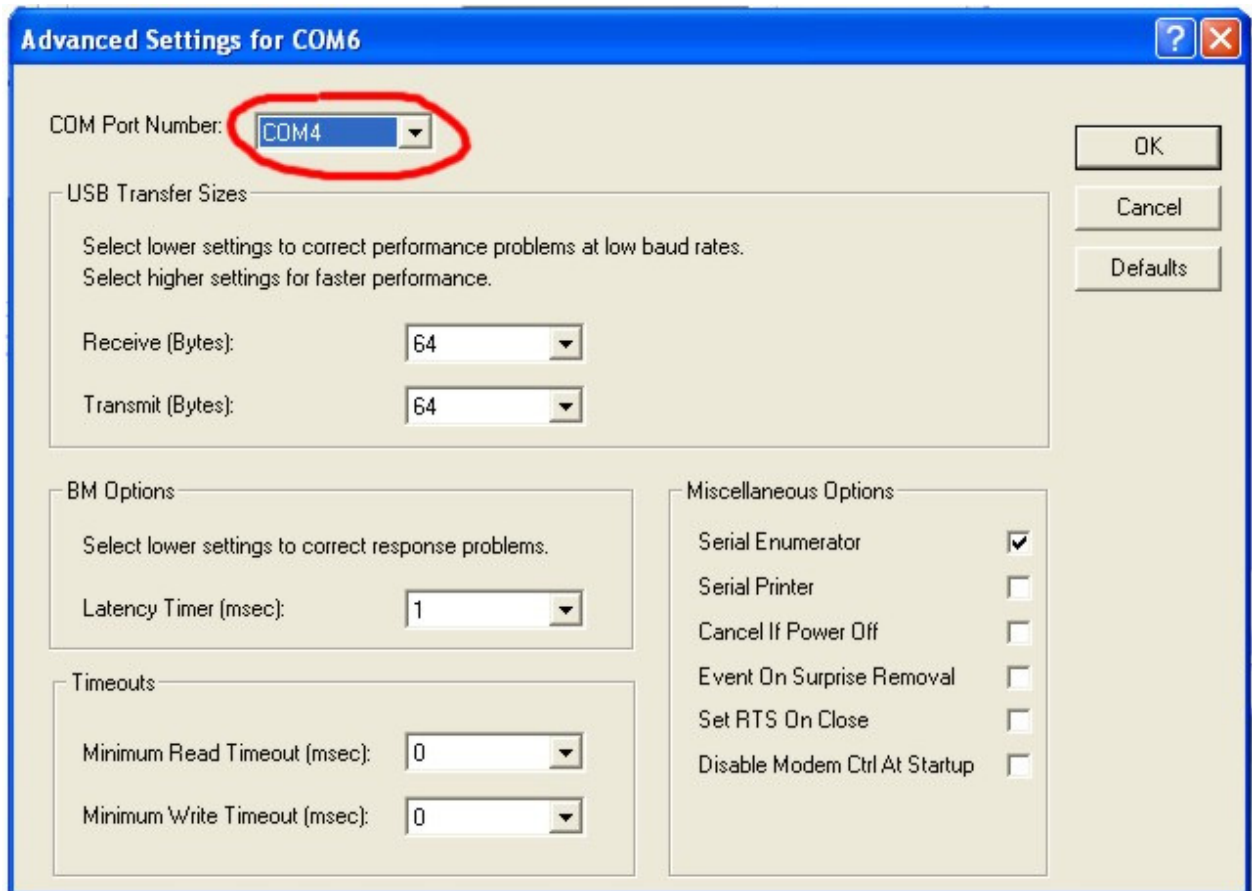
1. Connect JTAGcable II to target board, which have own power supply and possibility to switch it on/off.
2. Turn off target board power supply.
3. Disconnect USB cable from JTAGcable II.
4. Connect USB cable to JTAGcable II, yellow LED should blink.
5. In about 2.5 seconds turn on target board power supply, yellow LED should blink few times.
6. Disconnect JTAGcable II from target board.
7. In „AVR Studio” menu choose Tools → AVR Prog.
8. Click „Browse” button and locate „Upgrade.ebn” file in “JTAG ICE” folder of your AVR Studio install folder. (Typical path is „C:\Program Files\Atmel\AVR Tools\JTAGICE”)
9. Click „Program” button in „Flash” group.
10. If programming is completed close „AVRprog” window.
11. Disconnect USB cable from JTAGcable II.

Procedure for programmer COM port number change

1. Connect JTAGcable II to PC.
2. Open „Control Panel”.
3. Open „System”.
4. Choose „Hardware”.
5. Open „Device manager”.
6. In Ports group find „Propox JTAGcable II Serial Port”.



7. Right click on it, and choose „Properties”.
8. Choose „Port Settings” tab.
9. Click on „Advanced...” button.
10. Choose COM port number with 1 to 4 range.



11. Accept choice with OK and close not needed windows.