



### **USB-ISP programmer**

Installation:

Please download the \*.inf file for the ISP-programmer driver.

Please download the last driver "AVR-ISP-Driver" for the ISP-Programmer on the seller's website [www.diamex.de](http://www.diamex.de). Go to the download section where you can also download a product description.

"Stange ISP Prog" for Win XP

"Dx\_ISP.inf" Vista or Win2000

"avr-isp.inf" for Win7

For Windows 8 please read the information at the end of the description.

Store the \*.inf file on the hard drive or in a search path. Connect the programmer and run (automatic) the driver assistant.

During the installation Windows will ask for a driver. The windows driver will be used which will be communicated to the system by the special Stange\_ISP\_Prog.inf file.

In the next dialogue specify where the .inf file is located.

ISP-SPI-speed:

Due to the USB connection minor deviating ISP-frequencies may be caused towards a STK500.

STK500	ISP-Prog
921.6kHz	1MHz
230.4kHz	250kHz
57.6kHz	62.5kHz
28.8kHz	28.2kHz
4kHz	4kHz
603Hz	779Hz

LEDs

-USB-LED: flashes during USB activity

-Target LED: shut off in idle, flashes during target access

Functions

-FLASH, EEPROM, Fusebits, writing Lockbits, reading, chip erase, reading OSCCAL register

Log

-STK500v2

Software assisted

-AVR Studio (COM1...COM9) Version 4/5/6

-AVRDUDE

-Bascom with setup-options-programmer=STK500:

C:/Programms/Atmel/AVR Tools/STK500/stk500.exe (STK500 native driver) and installed AVR Studio 4/5/6

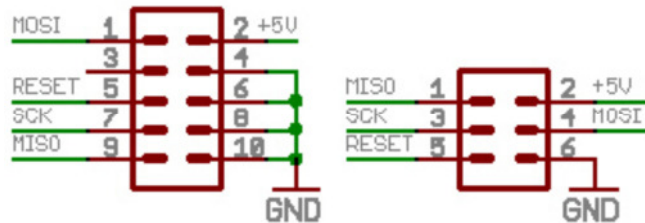
Switch position for normal programming in user's switching= both switch OFF

If voltage supply of the target is needed.

For a single AVR controller only without own switching 5V are required (for example DiameX program adapter/pivot lever) 1=on 2=on

General: 3.3V max. 120mA, 5V 150-500mA. Depending on which computer is used.

Switch 1 off= target voltage off/on, switch 2 off= 3.3V / on=5.0V. The programmer doesn't need a power supply from the target for the programming operation.



#### Equipment

-ISP programmer in a stick case

-USB 2.0

-SPI connection cable 6 pin 15cm (Atmel standard – check the upper drawing) 15cm

-manual

Supports the following controller:

Classic

AT90S1200, AT90S2313, AT90S2333, AT90S2343, AT90S4414, AT90S4433, AT90S4434, AT90S8515, AT90S8535

Tiny

ATtiny12, ATtiny13, ATtiny15, ATtiny2313, ATtiny24, ATtiny25, ATtiny26, ATtiny44, ATtiny45, ATtiny85, ATtiny86, ATtiny261, ATtiny461, ATtiny861

Mega

ATmega88, ATmega103, ATmega128, ATmega1280, ATmega1281, ATmega16, ATmega161, ATmega162, ATmega163, ATmega164, ATmega168, ATmega169, ATmega2560, ATmega2561, ATmega32, ATmega324, ATmega325, ATmega3250, ATmega329x, ATmega64, ATmega640, ATmega644, ATmega645, ATmega6450, ATmega649x, ATmega8, ATmega8515, ATmega8535

Further

AT90CAN128, AT90PWM2, AT90PWM3, AT90PWM3B, AT90USB162, AT90USB646, AT90USB647, AT90USB1286, AT90USB1287

and all ATMEGA processors, which support the ISP-programmer interface. Also Arduino boards are supported.

Driver installation for Windows 8:

The Windows 7 driver works also on Windows 8. The following report appears:

“The third party \*inf file does not contain digital signature information”

Charme set up on/off - hold shift and click on restart **or**

Charme set up / More PC settings / General / Advanced start up **then** troubleshoot /advanced options start set up. The computer will restart and shows a menu please press key 7.

Disable driver signature – Now the driver can be installed.

For any questions please do not hesitate to contact us: [info@tremex.de](mailto:info@tremex.de) / [nico@tremex.de](mailto:nico@tremex.de)