ISP3-X *with AES encryption*

E-LAB ICP-ISP Programmer [AVR] [avr evaboardi]

```
File  Device  Program  Options  Encrypt  Tools  Help
                                      Action: none
                                                          4.0
adress 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F ascii
000000 0C 94 CF 04 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B ................
000010 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B ................
000020 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B ................
000030 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B ................
000040 0C 94 1D 05 0C 94 0B 0B 0C 94 66 05 0C 94 3D 05 ..........f...=.
000050 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B ................
000060 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B ................
000070 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B ................
000080 0C 94 0B 0B 0C 94 0B 0B 0C 94 0B 0B 10 91 61 00 ..............a.
                                                          SPI
adress 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F ascii
000000 AA 0E 45 2D 4C 41 42 20 43 6F 6D 70 75 74 65 72 ..E-LAB Computer
000010 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ................
000020 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ................
000030 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ................
000040 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ................
000050 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ................
000060 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ................
000070 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ................
000080 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ................
Flash contents doubleclick to edit
CPU : MEGA128        Clock : 16 MHz    0.01Volt  ISP-3 Debug Prof Programm  p: 0
```

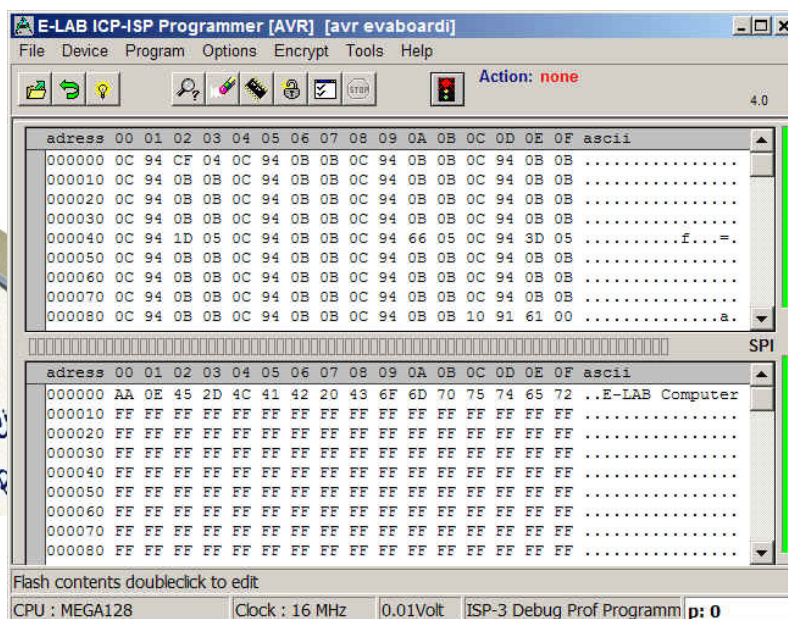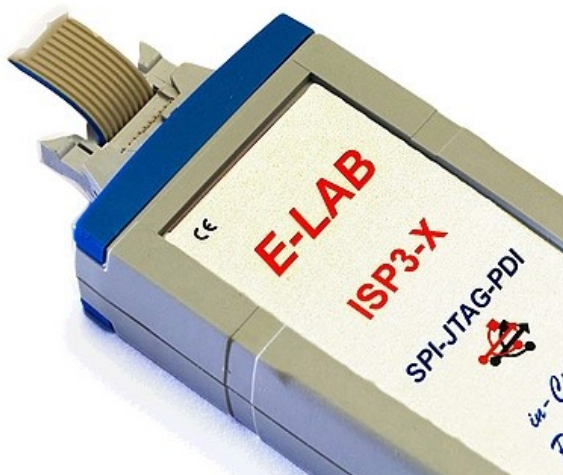
Incircuit Programmer for AVR, AT89Sxx, AT89LSxx, AT89LPxx, TICC1110, CC2510 and CC2430, SPI-Flash, AVR S1200...Mega2560 in SPI + JTAG, XMega/PDI, Tiny/TPI/UPDI

- ISP3-X works in the Full-Speed USB-2 mode. Can also be connected to USB-1 ports and HUBs
- No power supply necessary. The ISP3 can be supplied from the PC interface (USB) or from target.
- Automatic adaption to the target voltage (2.7-6Volt, ca. 17mA)
- Powerful and extensive software
- Software runs on XP/Vista/Windows7, 32 and 64bit. Win98 with some exceptions.
- Small, leightweight and handy device ca. 100x55x20mm
-
- Supports all SPI, JTAG, PDI and TPI programmable *AVRs*
- Supports all **XMegas** in PDI mode
- Supports all **Tinys** in TPI und **UPDI** mode
- Supports all SPI programmable *AT89Sxx*, *AT89LSxx* and *AT89LPxx* types
- Supports the TI/ChipCon *CC1110, CC2510 and CC2430* family
- Supports the SPI-Flash *AT25DFxxx, S25FLxxx, SST25VFxxx* families

- Programmable output voltage (supply) for the target system. 3.3..5.2Volt 30mA..300mA
- Programs **128kB** Flash in ca. **3sec** (Mega128 JTAG Mode)

- Self update with new firmware through the Internet.
- Option adaptor from Atmel 6pol SPI to Atmel 10pol program connection (not included)
- Option adaptor from E-LAB JTAG to Atmel JTAG program connection (not included)
- Option adaptor from ISP3 6pin to TI/ChipCon CC2430 evaluation board (not included)

- With **AES encryption** of the project and decryption in the UPP re-engineering is absolute impossible.

- **ISP3-X** with USB connection is optimal suitable for development desktop, programming stations and repair stations

- With the included program **PackProg** the ISP3 can be used for small series programming.
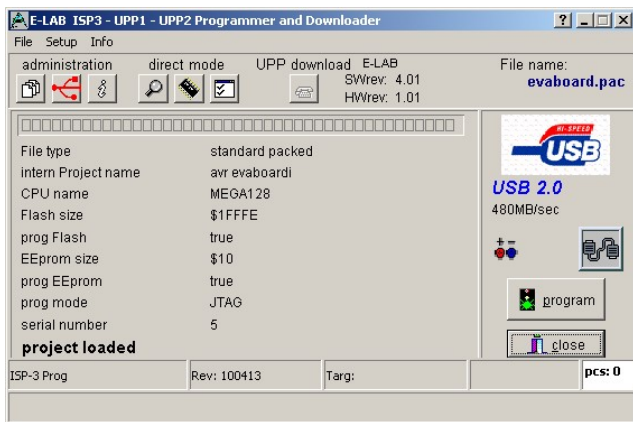
Price ISP3-X   €139.00 +ship

P.Rohlfing Elektronik   Tel. 0176 84935600
Asternweg 5   Info@elab-programmer.de
D27801 Doetlingen   www.elab-programmer.de

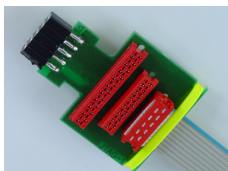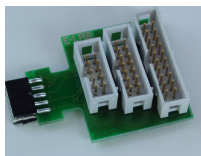# E-LAB In-Circuit Programmer
ISP3-X

PackProg

The functions are reduced to:

- Project laod
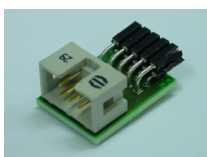- Program Target
- Target test

No manipulations possible (Fuses etc.) by the user.

As an option an adaptor is available from E-LAB 6pin SPI to Atmel 10pin SPI

As an option an adaptor is available from E-LAB 10pin JTAG to Atmel 10pin JTAG

As an option an adaptor is available for the Chipcon Evaluation Boards CC1110..CC2511

As an option an adaptor is available for the Chipcon Evaluation Board CC2430DB

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