# Elprotronic FlashPro-430

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FlashPro is mainly used for programming the transmitter firmware.
It offers a wider range of functions than MSPFET, which is not required in most cases.
FlashPro requires a corresponding FlashPro programming adapter (2.250.1385) to function smoothly. This adapter is subject to a charge and also serves as a licence dongle for FlashPro.

Setup
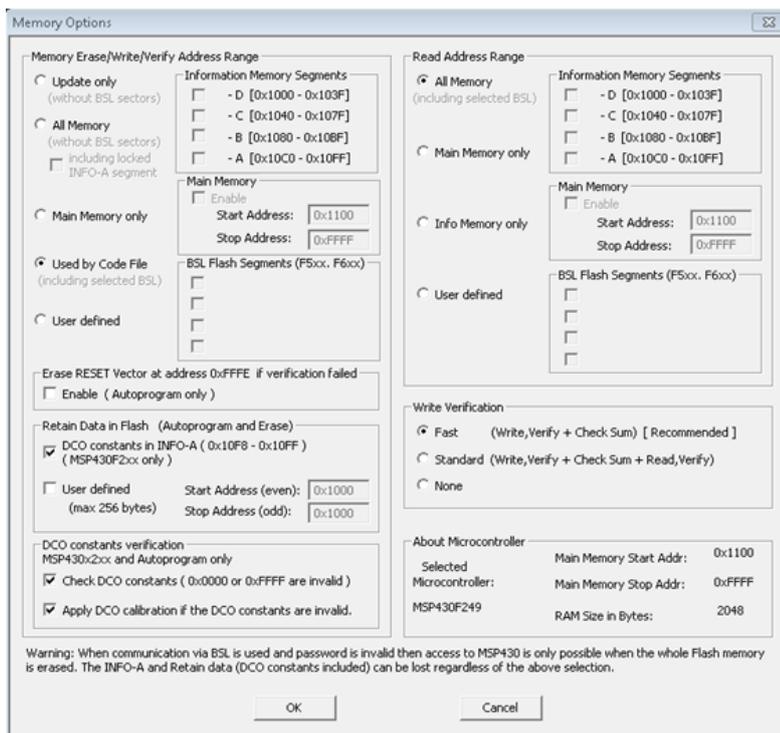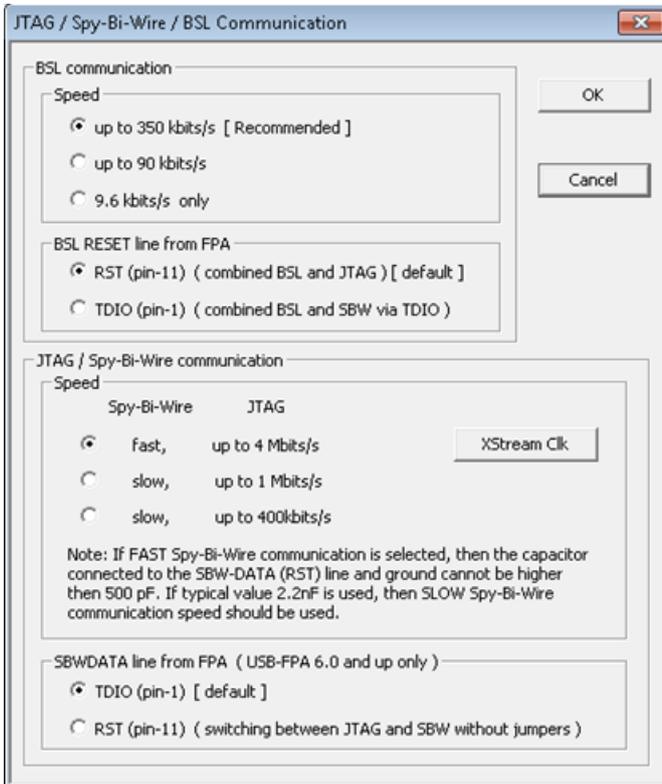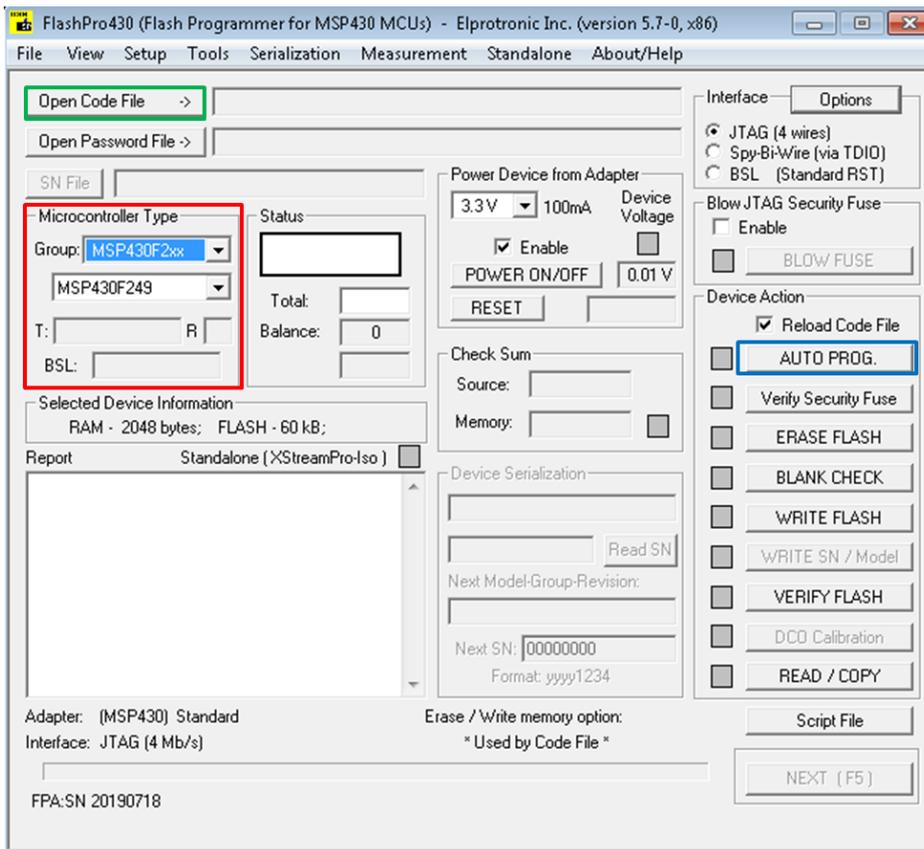
Before programming for the first time in FlashPro, the necessary settings are made to ensure an optimum programming process.
In the "Memory Options" either

- "all memory" → Deletes the entire memory (when programming the controller for the first time)

or

- "Used by Code File" → Retains the config file and parameter values
  (when reprogramming the controller)

select.

For some joystick controllers, the speed must be set to slow, up to 400kbits/s in the JTAG options.

Programming a firmware

1. select the appropriate microcontroller family in the **"Microcontroller Type"** area
2. select the exact µC in the next drop-down menu
3. select a suitable transmitter firmware via the **"Open Code File"** dialogue
4. connect the programming adapter to the transmitter
5. switch on the transmitter (unlock the emergency stop switch)
6. use the **"AUTO PROG"** button to load the firmware onto the transmitter
7. after successful programming (lettering **"PASS"** in the "Status" area), unplug the programming adapter
8. switch off the transmitter

FlashPro offers the advantage that neither the config file nor parameters are overwritten when programming the firmware (if "Used by Code File" has been selected in the "Memory Options"). This means that, in contrast to MSPFET, these do not have to be additionally saved.

The latest version of the tool can be downloaded here:
https://www.elprotronic.com/pages/downloads-fp-gp-430

! Care must be taken to ensure that the microcontroller and software are compatible with each other, otherwise the hardware may be destroyed!

! Make sure that the "Blow JTAG Security Fuse" option is not active. A destroyed security fuse prevents further programming of the microcontroller!

! In contrast to MSPFET, the complete microcontroller is not deleted here, only the firmware part. Parameters are retained!