Firmware update on ST-01 boards via USB

It is only possible to update control boards ST-01.771.00 and ST-01.761.00 via USB connection (control board P-I-ST-094). Do not install this firmware to the electric drive board (P-I-ST-090).

Only ***LM FlashProgrammer*** can be used for such update. Before update drivers must be installed.

System requirements: Windows XP Sp3, Windows 7 Sp1.

General requirements:

1) PC with installed drivers and program. It is highly recommended to install and check software before updating firmware.

2) Power supply + 24 V DC, 1 A.

3) PVA cable 2x0,75 with contacts MC100-508-02P (2) (2ESDV-02P) – for easier connection. (*Picture 1.)*

4) Jumper.

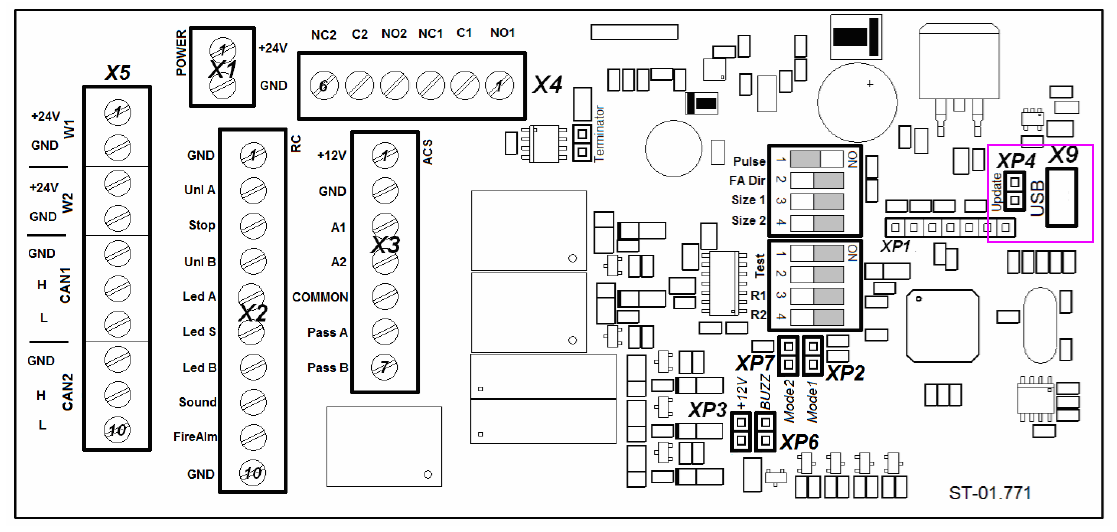
5) Cable "miniUSB - USB", length - 1 m.

Instruction:

1. Install LM FlashProgrammer on your PC.
2. Connect control board via USB to your PC. *(Picture 2)*
3. Install “Update” jumper on control board. It locates near USB connector. *(Picture 2)*
4. Connect control board to power supply and power on it. Control board will be in “ready for update” mode.
5. OS Windows will ask for drivers for new device. If these drivers were not installed previously then install them by point on folder where they locate. After driver installation in Device Manager of Windows new device must appear - *TivaWare Device Firmware Upgrade.*
6. Run *LM FlashProgrammer.*
7. Choose tab *Configuration: QuickSet*, select *-> ManualConfiguration* – see below, Interface choose *USB DFU*  and press Refresh, in this window must appear *0 – Stellaris Device Firmware Update.*
8. Move to tap *Program*, point location of the file *Select .bin file -> St01771v\_\_.bin, Options - >* checkbox *VerifyAfterProgram*  - set, checkbox *Reset MCU AfterProgram*  - set, *Program Address Offset: 0x* set as -> 0.
9. Press button Program, after that the progress of process will be seen in the status bar. In the end must message appear - Verify Complete Passed. Update is complete.
10. Power off control board.
11. Remove “Update” jumper from the control board.
12. To make a first check of the board power on it. It must make sounds by relay and LEDs on the board must blink.



Picture 1



Picture 2