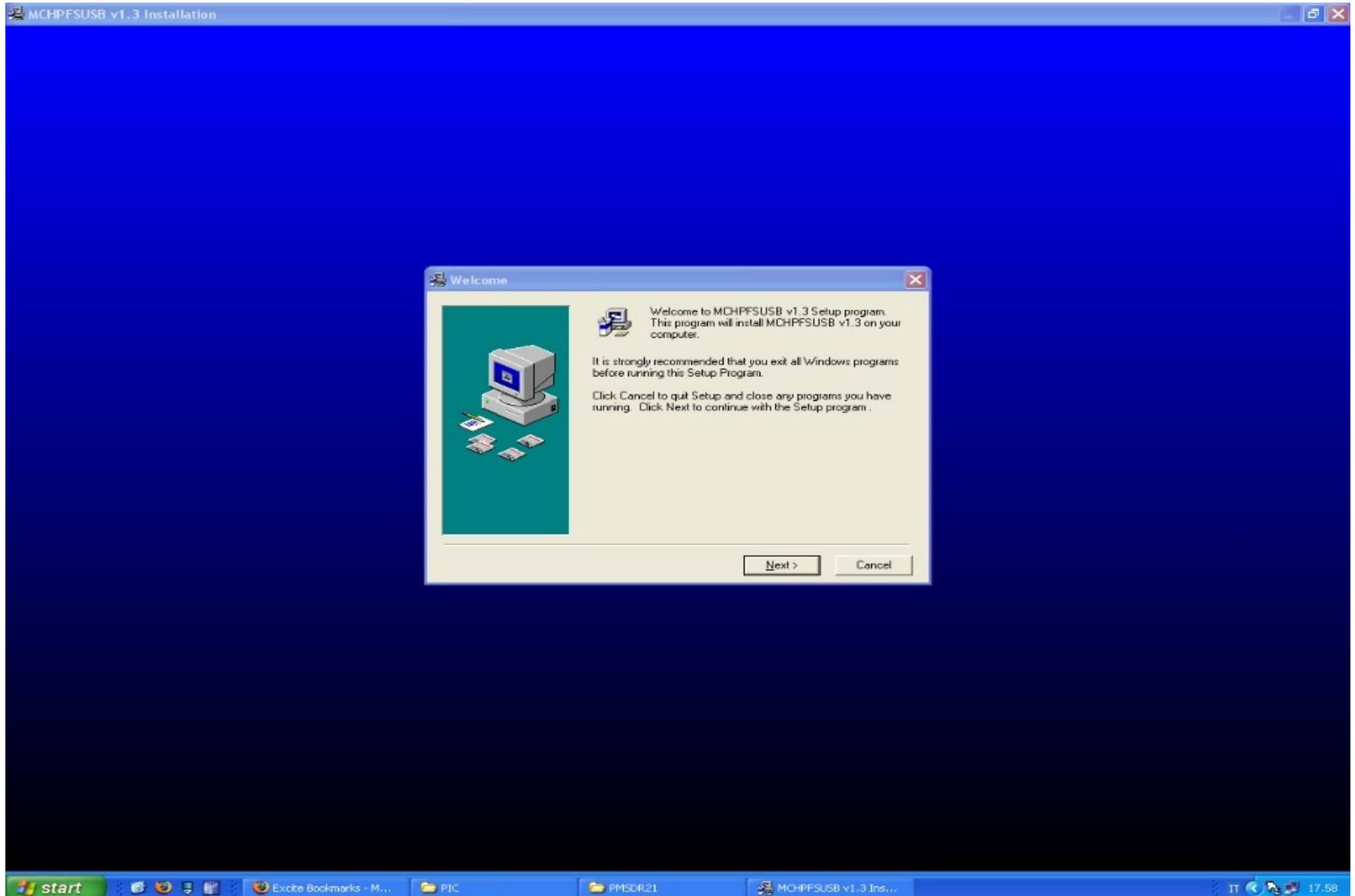


FIRMWARE INSTALLATION GUIDE FOR PMSDR2.x

1. Install Microchip's MCHPFSUSB tool:



Installation Complete



MCHPFSUSB v1.3 has been successfully installed.

Please read the release notes for MCHPFSUSB. Shortcuts to the release notes and firmware user's guide have been placed on your Start Menu:

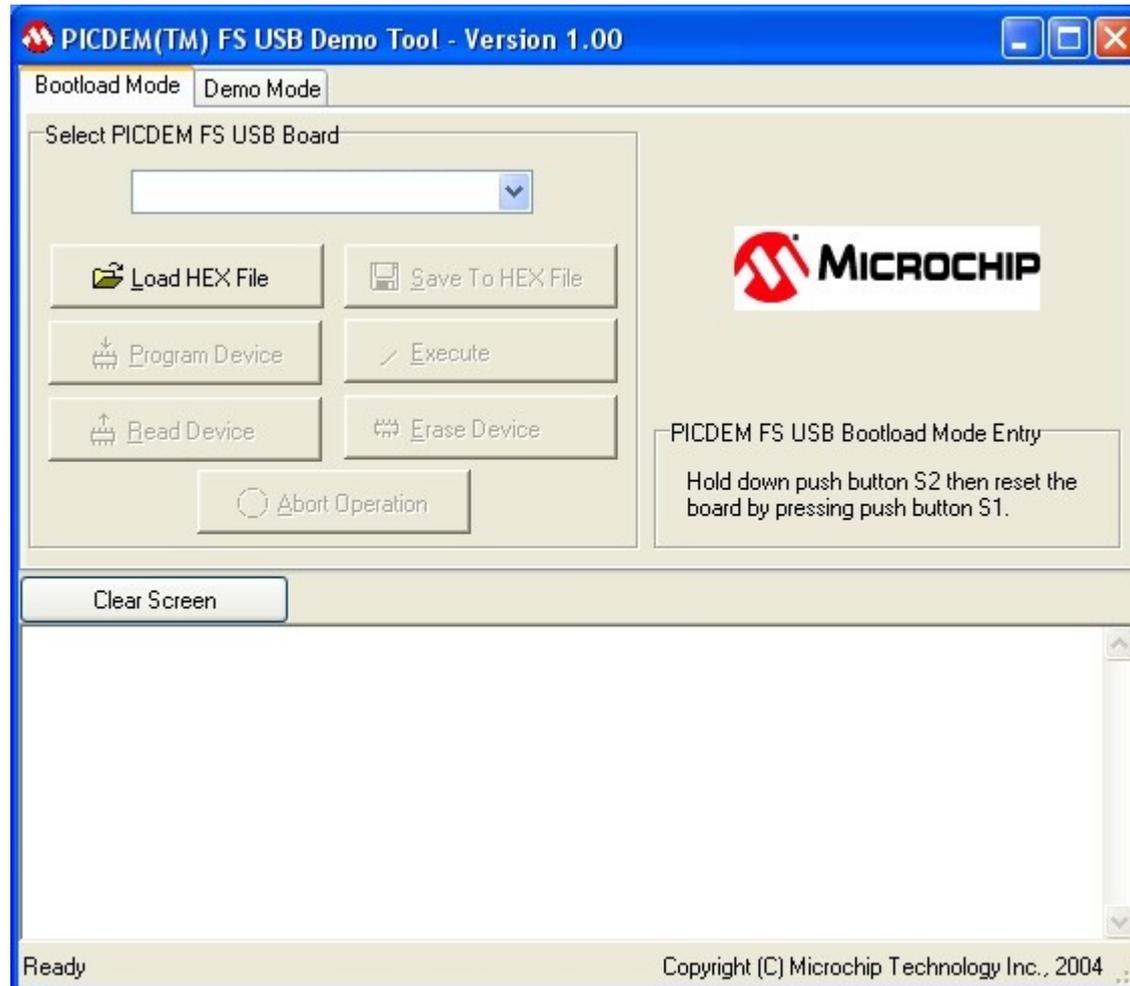
Programs > Microchip > MCHPFSUSB v1.3

< Back **Finish >** Cancel

2. Connect the PMSDR-Board and install the Microchip USB Custom Driver. (see driver_inst_guide.pdf)

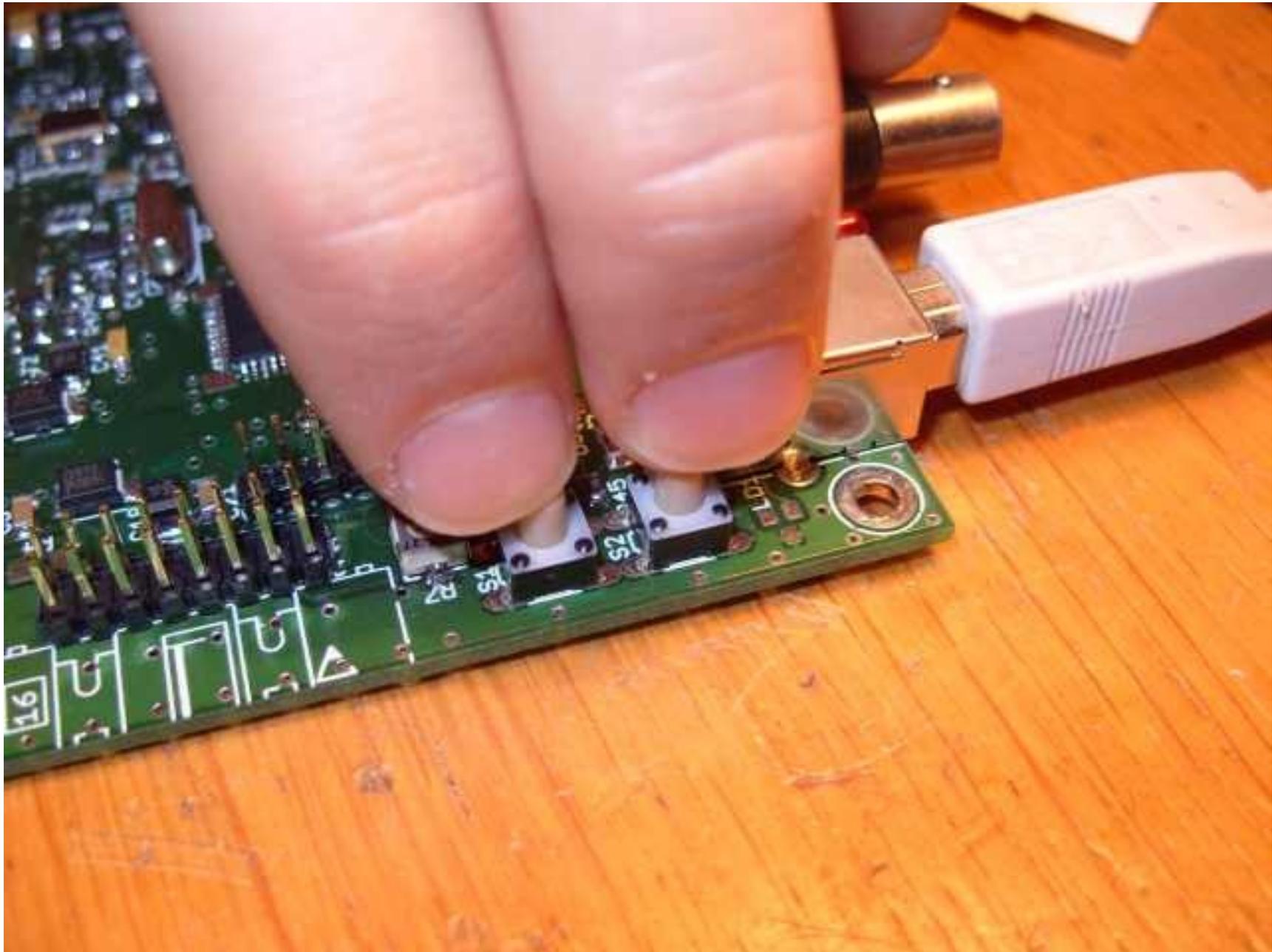
2a. Start the PDFSUSB (C:\MCHPFSUSB\Pc\Pdfsusb) utility:

(Note: At this point, the bootloader code must be already programmed on the PIC18F4550 MCU, else please use a programmer interface connected to SV1 to program the bootload first.)

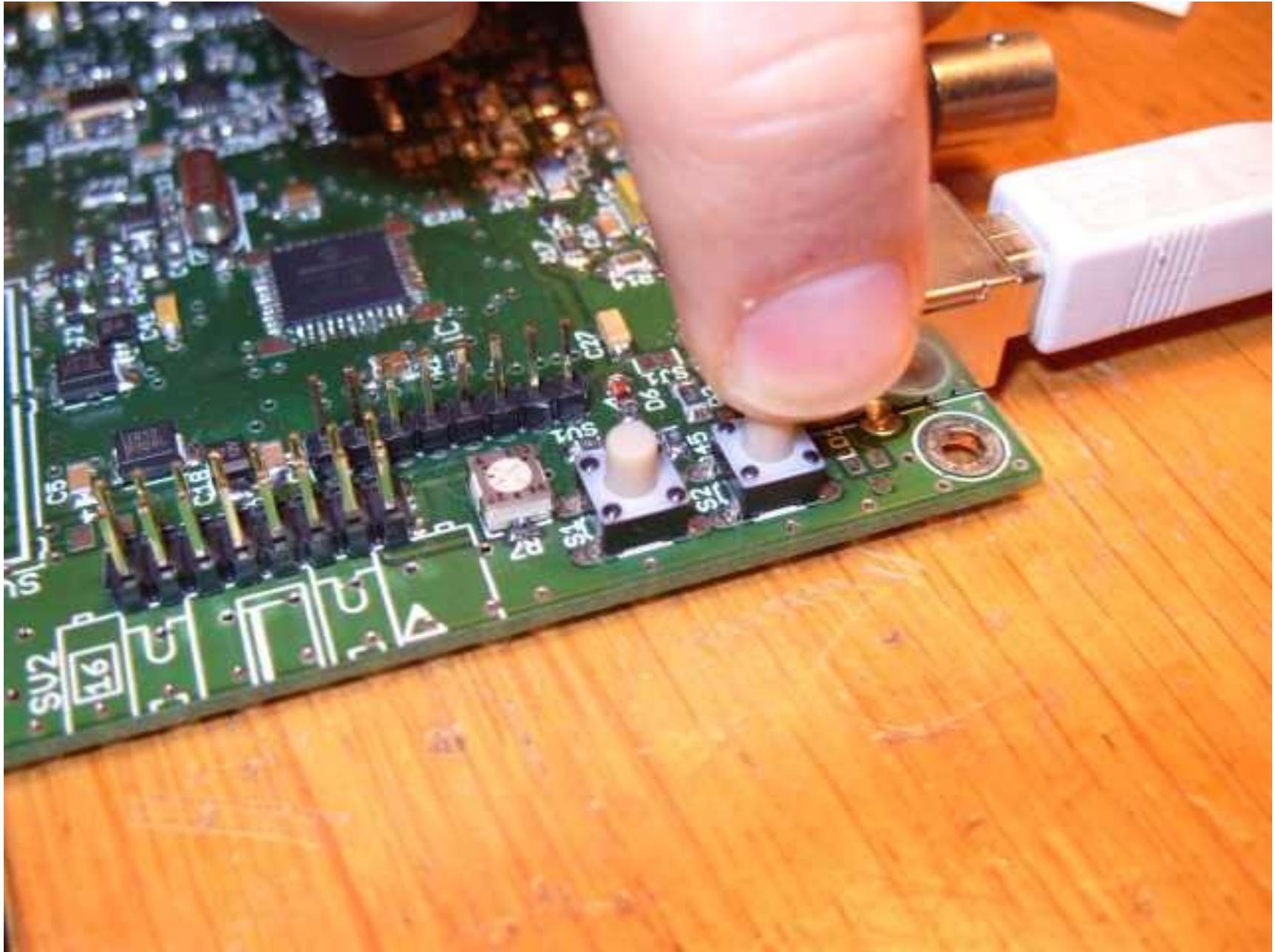


3. Connect the PMSDR2.x to the USB

4. Start the bootloader on the PMSDR2.x: Press S1 and S2

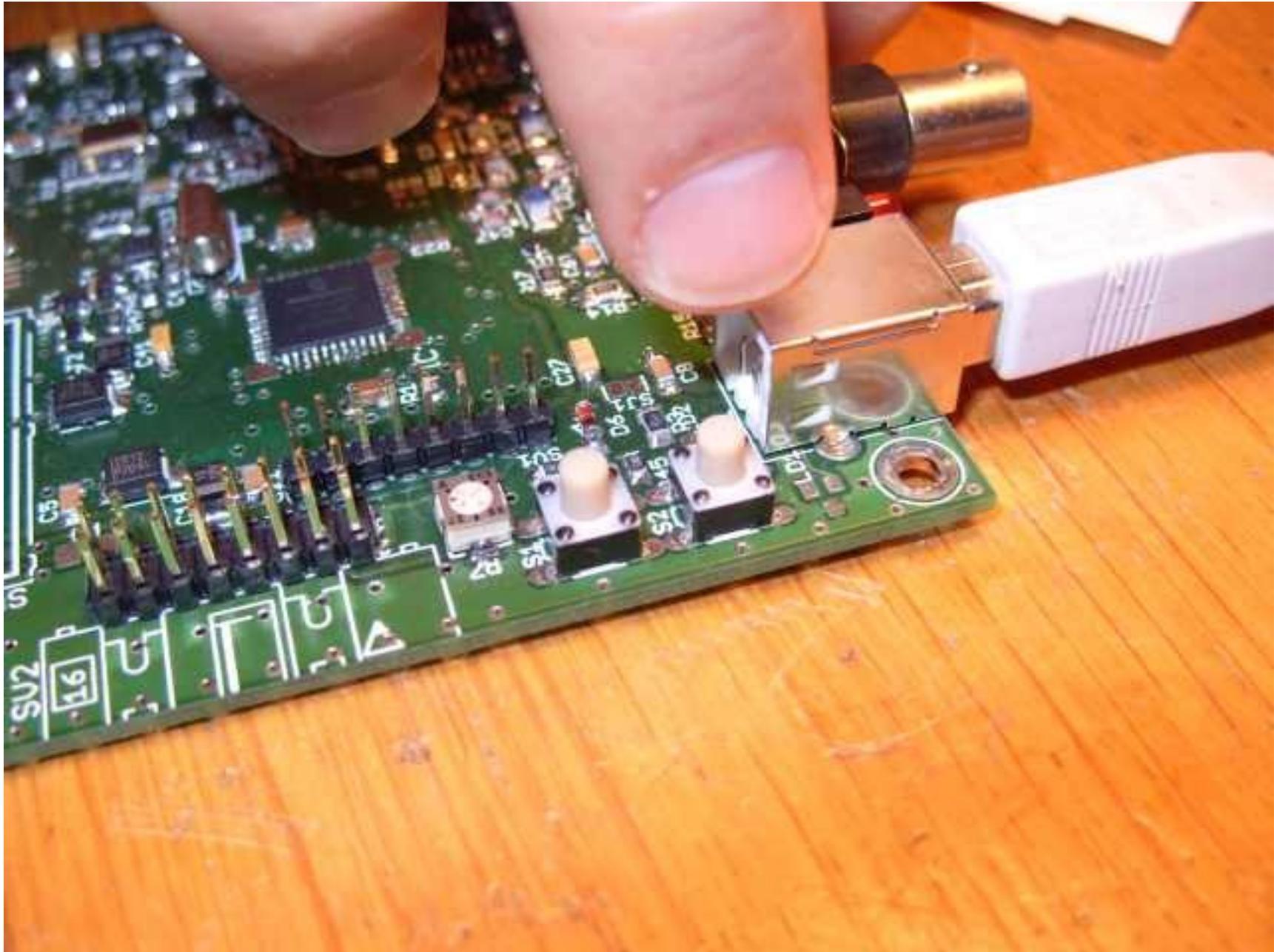


5. Now release only S1 (Reset)

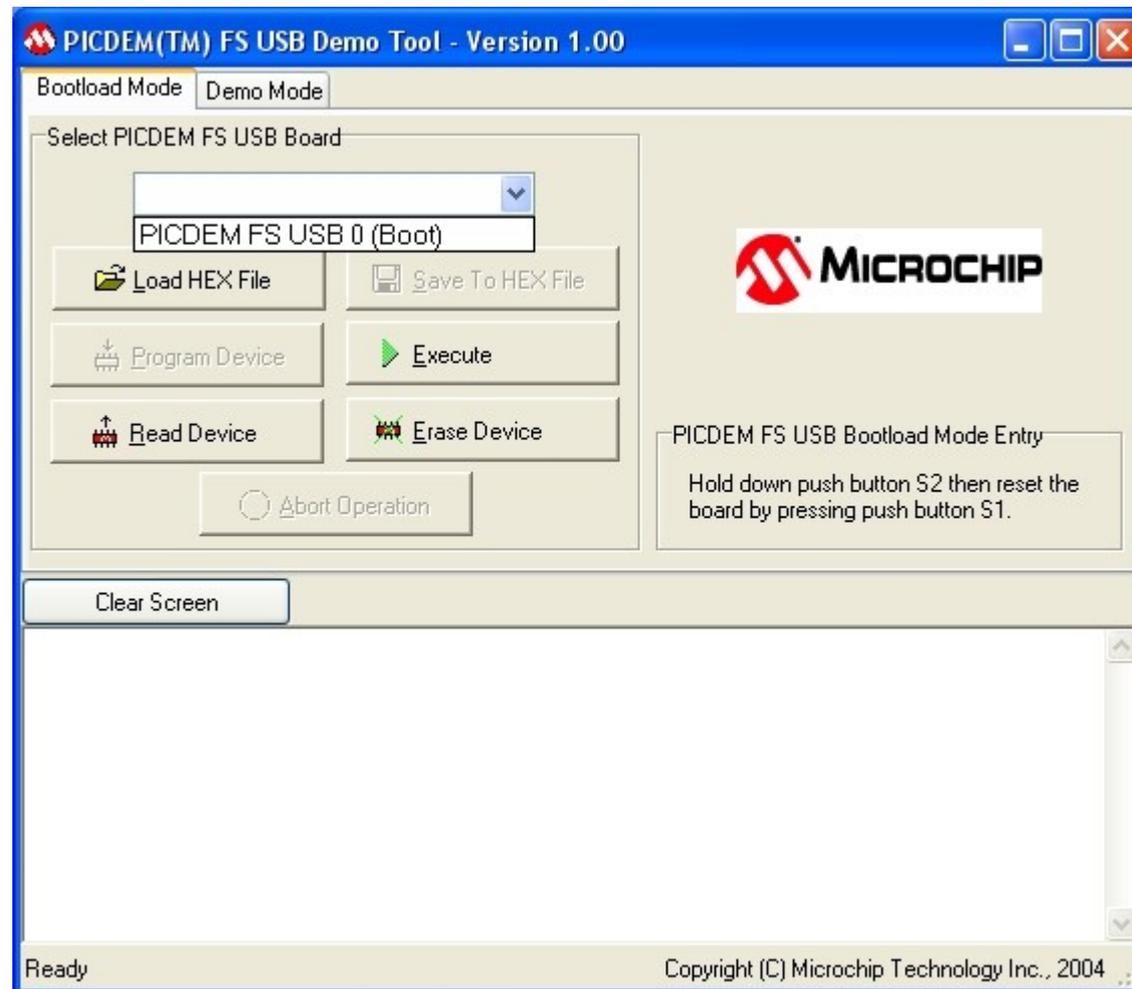


6. Release also S2 (Boot)

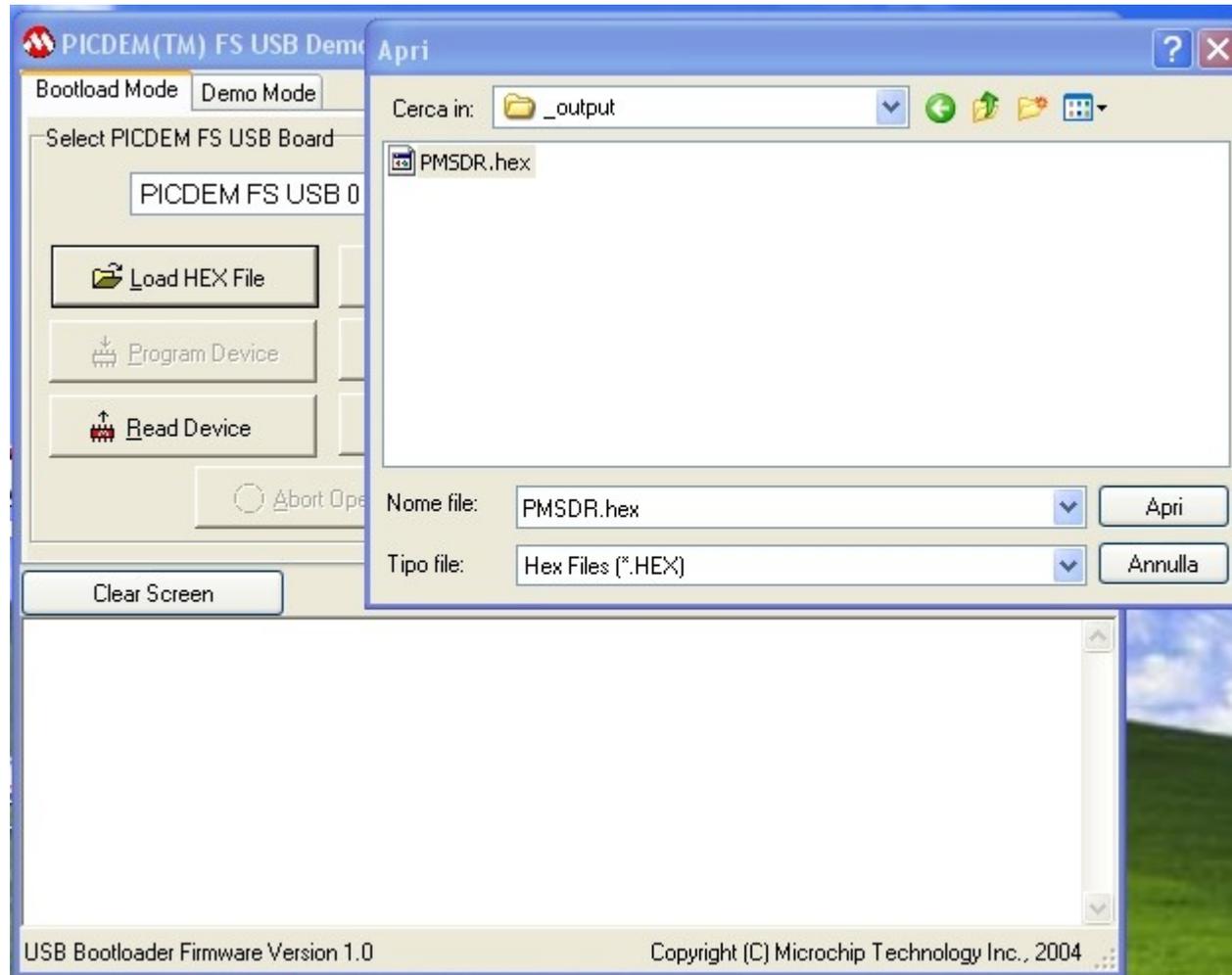
7. Now the PMSDR is in bootloader mode



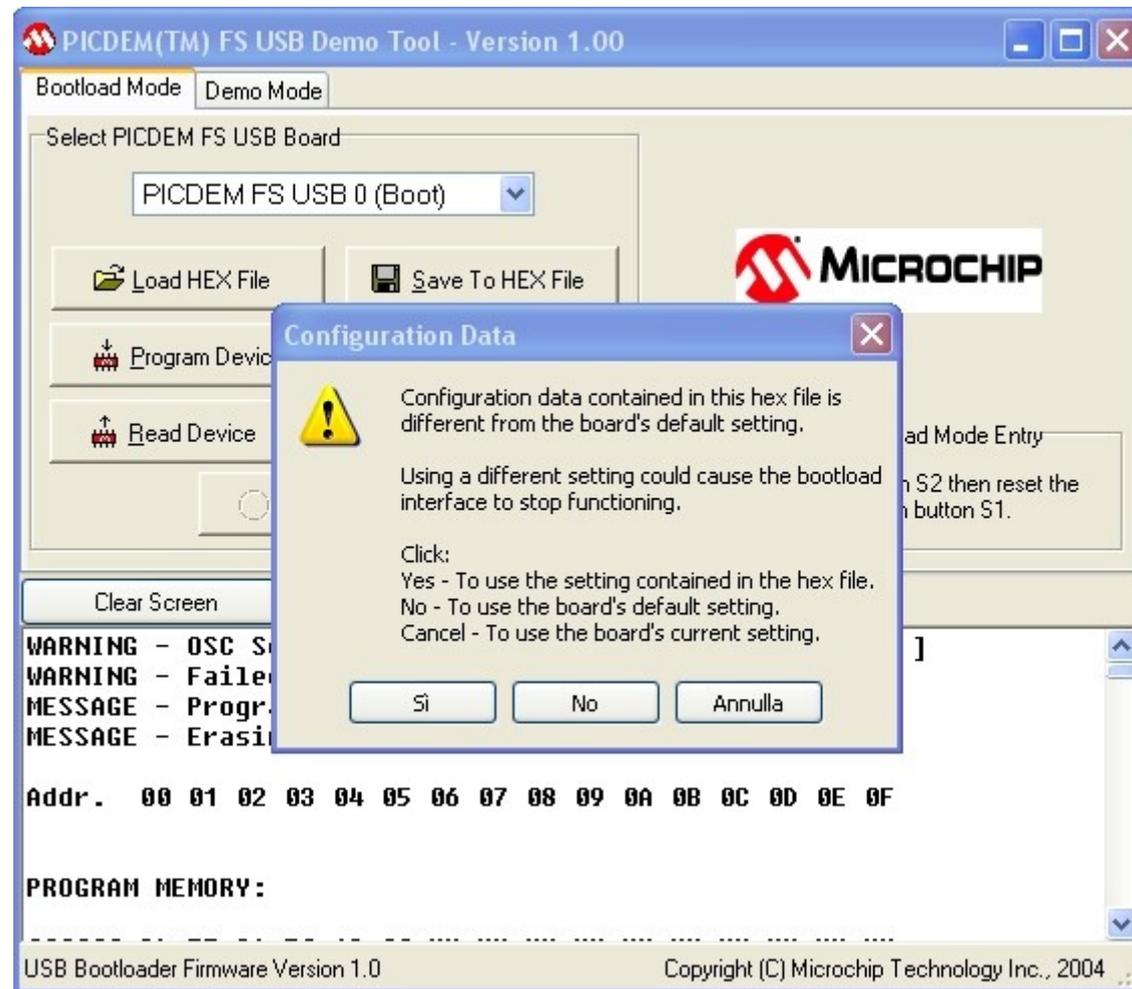
7. If the bootloader is started on the PMSDR, the ID “PICDEM FS USB 0 (Boot)” appear in the Listbox. If this so, we are ready to program the firmware.



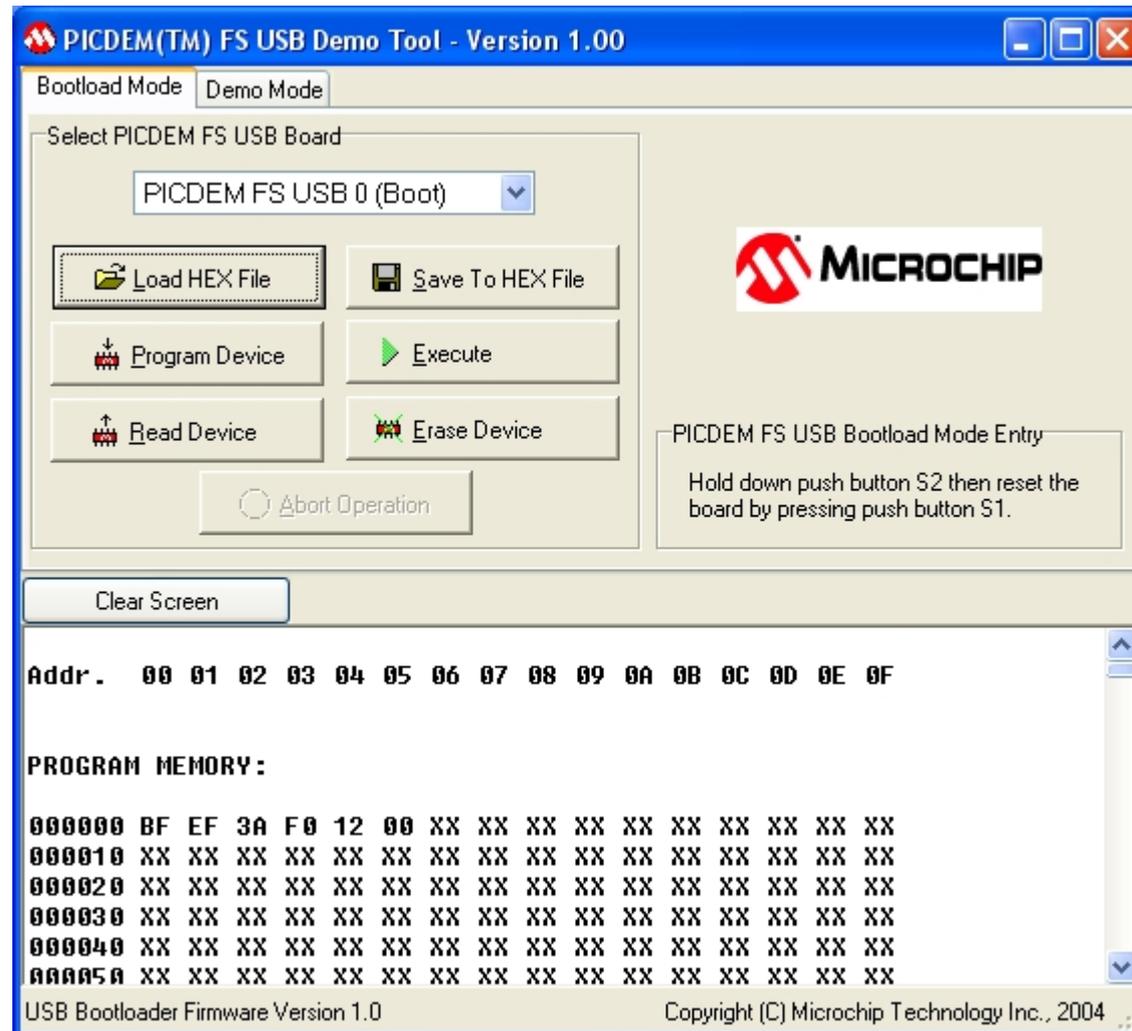
8. Click on “Load HEX File” and choose the correct Firmware-Hexfile to upload.



8a. Click on “Yes”.



9. Now the Firmware is loaded in the buffer. Click on “Programm Device” to start the upload.



10. Wait until to finish the programming sequence.....

PICDEM(TM) FS USB Demo Tool - Version 1.0

Bootload Mode **Demo Mode**

Select PICDEM FS USB Board

PICDEM FS USB 0 (Boot)

Load HEX File Save To HEX File

Program Device Execute

Read Device Erase Device

Abort Operation

MICROCHIP

PICDEM FS USB Bootload Mode Entry

Hold down push button S2 then reset the board by pressing push button S1.

Clear Screen

MESSAGE - Erasing and Programming FLASH...

Addr.	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
PROGRAM MEMORY:																
000000	BF	EF	3A	F0	12	00	XX									
000010	XX															
000020	XX															
000030	XX															
000040	XX															

USB Bootloader Firmware Version 1.0 Copyright (C) Microchip Technology Inc., 2004

11. Now the Firmware is programmed in the PMSDR. Click on “Execute” to start the PMSDR firmware.

PICDEM(TM) FS USB Demo Tool - Version 1.0

Bootload Mode **Demo Mode**

Select PICDEM FS USB Board

PICDEM FS USB 0 (Boot)

Load HEX File Save To HEX File

Program Device Execute

Read Device Erase Device

Abort Operation

MICROCHIP

PICDEM FS USB Bootload Mode Entry

Hold down push button S2 then reset the board by pressing push button S1.

Clear Screen

MESSAGE - Programming FLASH Completed
MESSAGE - Erasing and Programming FLASH...

Addr.	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
PROGRAM MEMORY:																
000000	BF	EF	3A	F0	12	00	XX									
000010	XX															
000020	XX															
000030	XX															

USB Bootloader Firmware Version 1.0 Copyright (C) Microchip Technology Inc., 2004

12. Don't panic: ignore the message “Failed to RESET board”. The PMSDR is running now.....

PICDEM(TM) FS USB Demo Tool - Version 1.00

Bootload Mode **Demo Mode**

Select PICDEM FS USB Board

Load HEX File Save To HEX File

Program Device Execute

Read Device Erase Device

Abort Operation

MICROCHIP

PICDEM FS USB Bootload Mode Entry

Hold down push button S2 then reset the board by pressing push button S1.

Clear Screen

```
WARNING - Failed to RESET board
MESSAGE - Programming FLASH Completed
MESSAGE - Erasing and Programming FLASH...

Addr.  00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F

PROGRAM MEMORY:

000000 BF EF 3A F0 12 00 XX XX XX XX XX XX XX XX XX
000010 XX XX
AAAA20 XX XX
```

Ready Copyright (C) Microchip Technology Inc., 2004

13. If the new firmware is started on the PMSDR, the ID “PICDEM FS USB 0 (Demo)” appear in the Listbox on the “Demo Mode”-Tab.

14. If this your first-time installation, maybe you must install the USB-Driver now, else no other are required.

