Application Note 27

Title: **How to program the EM6580 with the ELNEC programmer**
Product Family: **4-bit Microcontroller**

Part Number: EM6580
Keywords: 4-bit microcontroller
Date: March 2, 2005

The EM6580 can be programmed through 2 modes :

Mode 1:   On socket programming

Only the 8pin Package is supported. The selection is done during the selection of the target in toolbar menu [Device \ Select device] or "press alt F5"
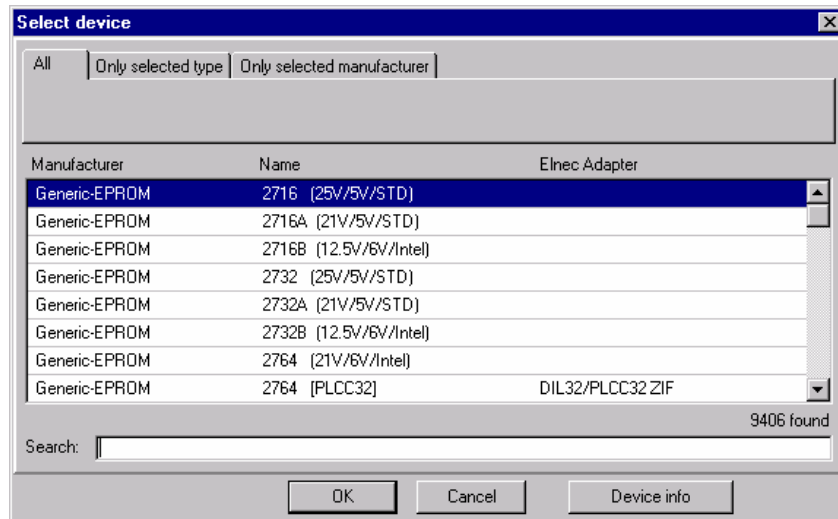

The best way to find the correct component is to type the product name in the search dialog box. EM Microelectronic micro-controllers always started with "EM6…." Then, select the desired package TSSOP8 or SOIC8. The corresponding Elnec socket adapter to use is mentioned on the right side of the microcontroller name.
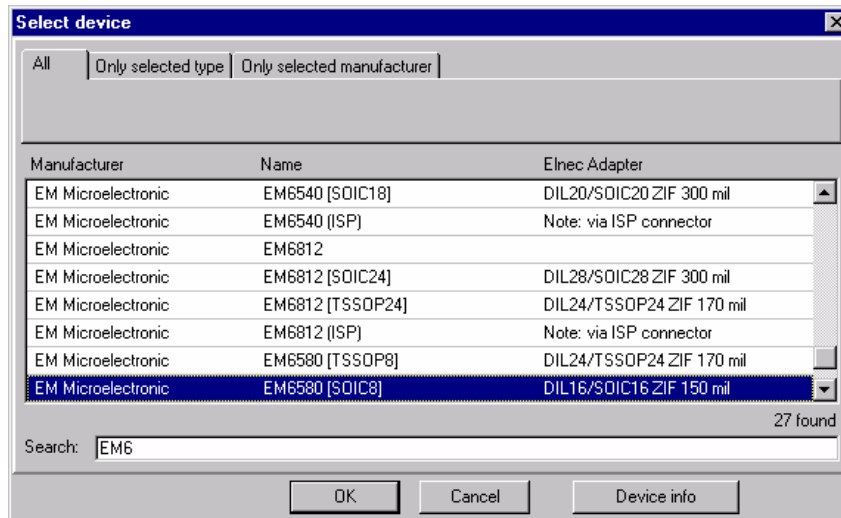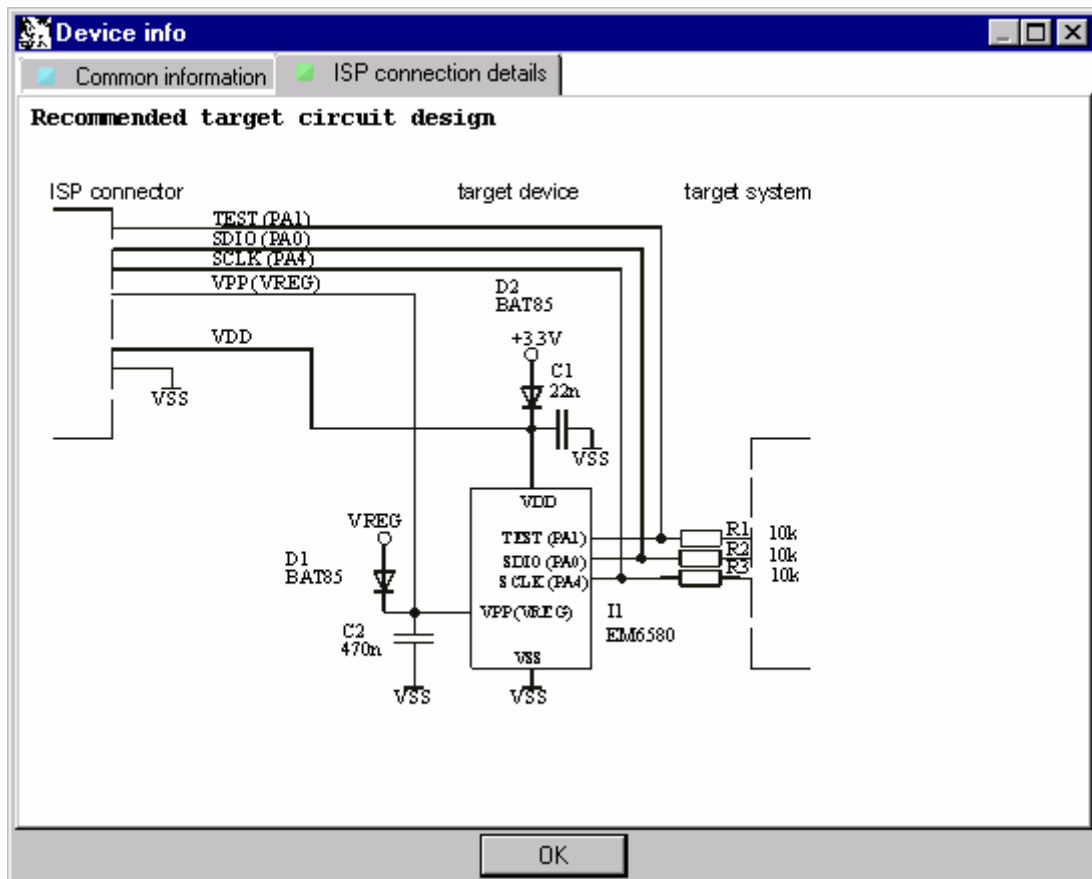
**Mode 2:   ISP (In-System-Programming)**

Both packages (8 and 14pin's) are supported. The ISP selection is done by the menu toolbar [Device \ Select Device] or by pressing "alt F5" keys.
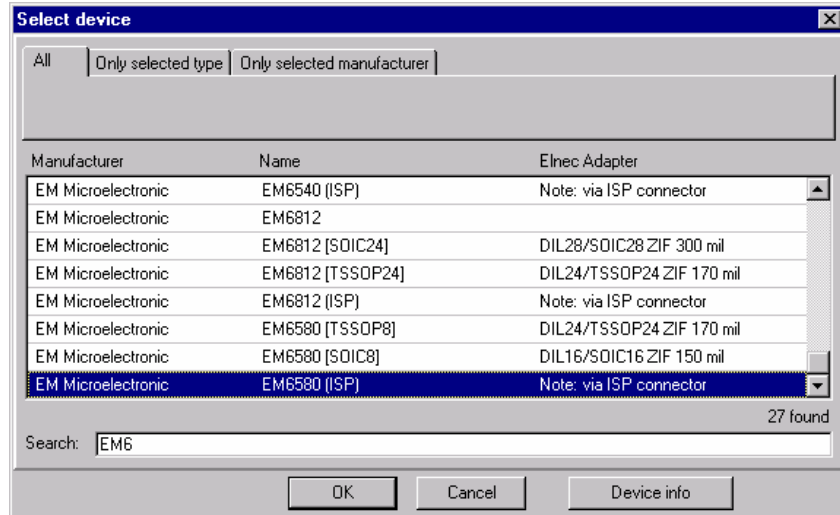

The ISP Connector is located on the right panel of the Elnec programmer (Smartprog) and the recommended connection is given :

Loading operation is done by using the toolbar menu [File \ Load] or by pressing the "F3" key. Select the binary .BIN file to load.
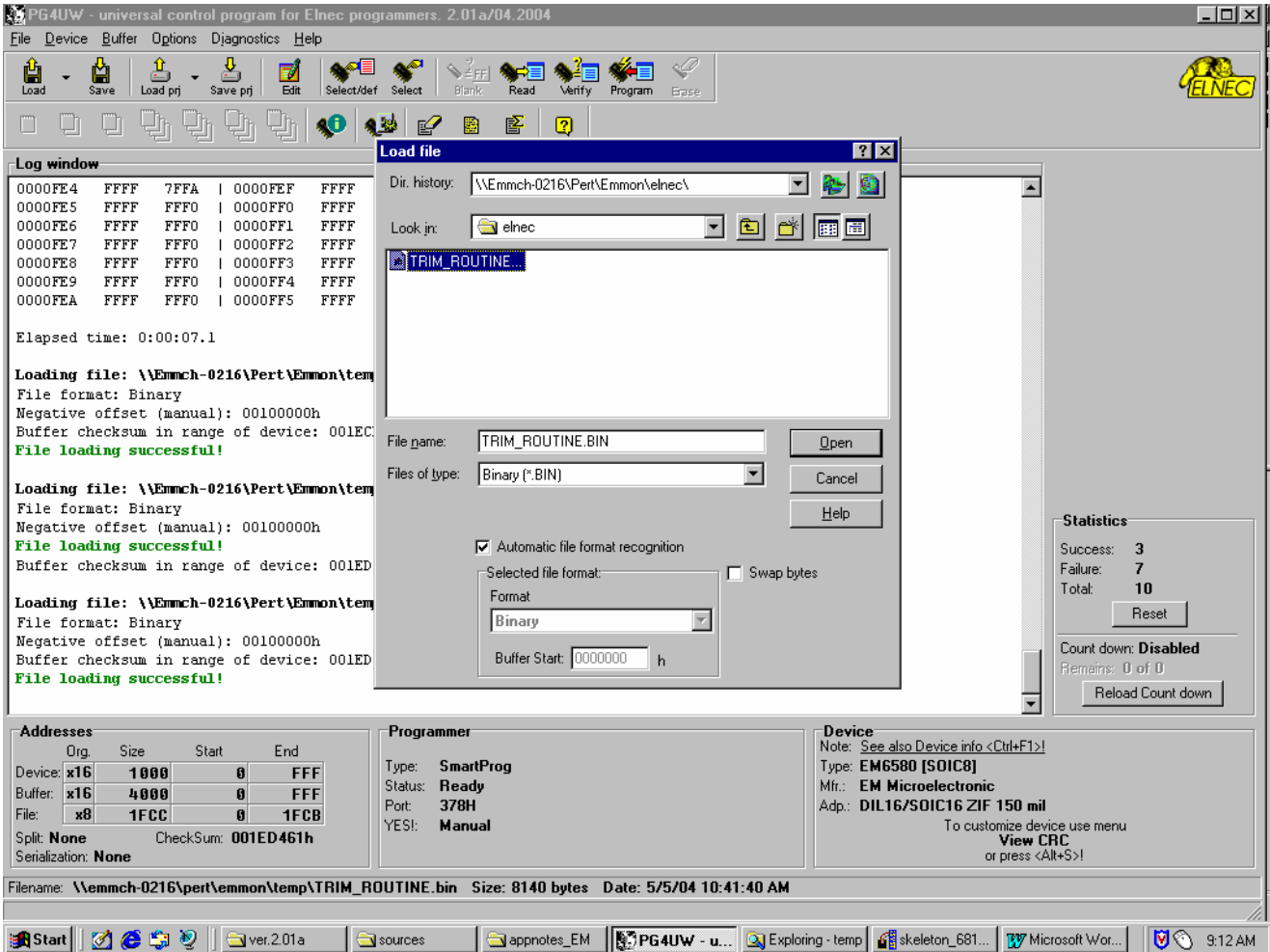
Click on program button or press the "F9" key to begin the programming procedure then select the device operations options by clicking on the mentioned button.
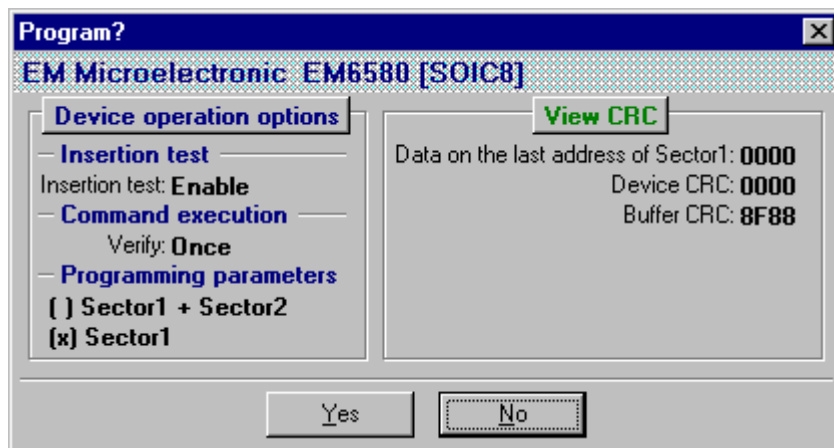
Two Programming parameters are available on the EM6580:

"sector 1" mode, is used to write the program memory and to preserve the same parameters in the sector2 flash memory area.

"sector1 + sector 2" mode, is used to write the program memory and also to modify the oscillator trimming informations written in sector 2 during the manufacturing production test. **Caution** this mode can definitively loose the trimming informations. (Refer to AppNote26 for details)

Only the Sector 1 mode must be used !

To start the programming operation, press the "Yes" Button, The following windows appear after a successful programming operation.