RIGEL MEDICAL

Application Note   0024

Title : Rigel 377 firmware upload.

NOTE:-
Minimum System Hardware requirements:-

- Processor : 1 G Hz Pentium processor
- Operating System: Windows 2000 SP4, Windows XP SP2, Windows 2003 SP1, Vista & Windows 7. (Software completely tested in Windows XP SP2 x86)
- RAM   : 256 MB
- Hard disk: 1 GB of available space
- Display   : 1024 x 768 High Colour - 16 bit

Performance has not been tuned for minimum system configuration. Increasing system configuration will improve the performance of the software.

Before using EUPA, the drivers for USB to UART bridge controller CP2101 need to be installed on the PC. This is detailed in section 2. Installing Rigel 377 USB drivers.

1.   Installing EUPA data transfer program

1.1   Run 'Setup.exe' located within the package. This will start the EUPA setup wizard.

1.2   Click Next to continue the installation.

1.3   Check the installation file location and press Next to confirm.
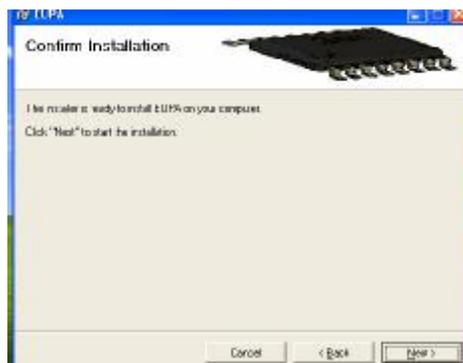
1.4   Click Close to complete the installation.

2.   Installing Rigel 377 USB drivers

2.1   Open 'Rigel377USBdrivers.exe'.

This will open the USB to UART Bridge Driver Installer.

2.2   Click 'Install' to begin the installation.

2.3   Select 'Continue Anyway'.

2.4   Once installation is complete, you will see the following message.

2.5   The EUPA data transfer software and Rigel 377 USB drivers are now installed and ready to use.

3.   Upgrading the ESA377 firmware.

3.1   Use the desktop shortcut (Fig 1) or Click on the start menu->All Programs->EUPA shortcut to run the software.

3.2   On opening the application you will get the main window with a message box saying "Switch off ESA 377 and disconnect USB cables connected if any". Follow the on-screen instructions and click OK to continue.

3.3   Connect the USB cable between the PC and the ESA377. The application will automatically find the COM port to which ESA 377 is connected and will display the same in the status bar.

NOTE:-
        If the following message is displayed, retry and follow the steps again.

3.4   When the COM port has been identified you will get the message 'Switch on ESA 377 then click OK'. The OK button needs to be clicked as soon as the ESA 377 has been powered on.
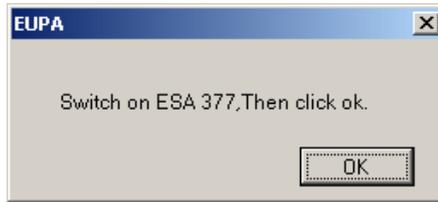
NOTE:-

If the timing is wrong between ESA377 power on and clicking OK to acknowledge the message, you will see the error 'ESA 377 not detected'. If this happens, repeat the process again.

3.5   When the ESA377 is detected, the ESA377 Upload application will open.

3.6   Click on Find Folder and locate the folder containing only the text and bin files to be uploaded to ESA 377. The application will check if the folder contains the correct upload files.

NOTE:-

If the folder doesn't have the files required or the CRC's don't match as in the text file, the application will display the message as below.
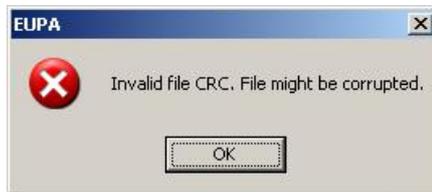
3.7   If the files are OK, select the relevant calibration data method:

a)   Retain Data - to retain calibration data. No EEPROM files will be uploaded.

b)   Clear Data - to erase calibration data. The application will show the following message. Click OK to clear calibration data.

NOTE: For normal firmware upgrade it is recommended to use the Retain Data option.

If you are attempting to clear the calibration data, you will be prompted for a password.
-     The password is **EUPA** all in capital letters.

3.8   Once you have located the folder and selected the Calibration Data method, press the List Files button and the files to be uploaded are shown in the memo field.
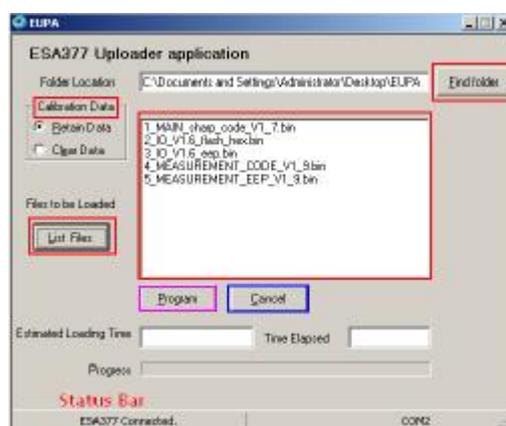
3.9   Click the Program button to upload the files to the ESA377. The following message will be displayed, click OK to continue.
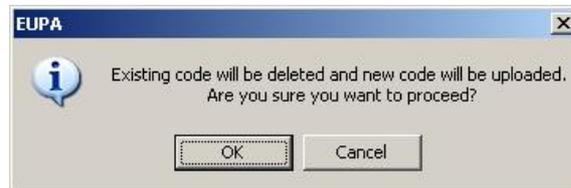
3.10   The estimated loading time will be updated. The application starts uploading the required firmware files in the order listed.

3.11   The progress bar indicates the status of upload and the status bar shows the action/file being uploaded.
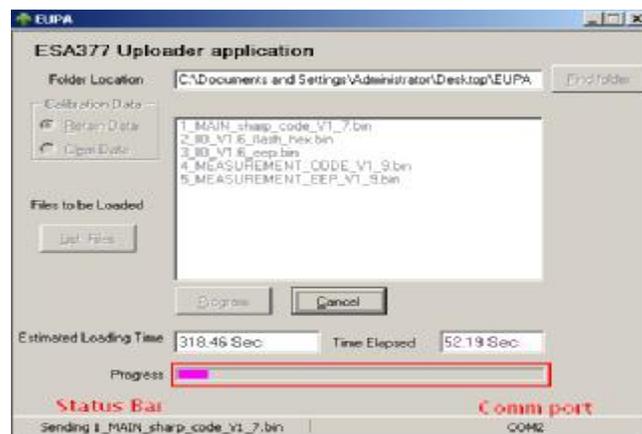
3.12   After the files have been uploaded successfully, the following message will be displayed. Restart the ESA377 for changes to take effect.

3.13   Your ESA377 firmware has now been updated.

End.