

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.

Confirm Installation *	Rearington
The model is welly to install \$10% on you is	mpust
Clock "Next" to start the installation	
	Caroel (Baol New)

1.4 Click Close to complete the installation.

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Installation Complet	0
ELPA ne see noomskip no Okk "Oke" (c.ok	fed
Please use windows U adam to a	heck for any critical spatiance to the HCT Passawars.

2. Installing Rigel 377 USB drivers

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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.

Seaward	Success		1
Installation Local	Ú)	Installation completed successfully	Version 4.40
C:iProgram F			

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.

TIPA -		_10 ×
ESA377 Uploa	der application	
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C Clear Data		
Filez to be Loaded	ELPA X	
List Files	(i) Switch off ESA 377 and discoverant	
	Use cables connected # any-	
	OK	
Extensed Lowding Time	TireElenard	-
Progress	E.	
ESA 307 Dec	ornected.	

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.

EUPA	×	1
į)	Connect ESA 377 USB cable, then click OK.	
	Cancel	

NOTE:-

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

ESA377 uploade	
🤨 сом р	ort not selected
Retry	Cancel

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.

EUP#		×
	Switch on ESA 377,Then click ok.	
	ОК	1

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.

ESA377 uploade	r <u>×</u>	
SA 37	77 not detected.	
Retry	Cancel	

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

- EUFA	
ESA377 Uploader application	
Foldes Location	Eind folder
Celibration D ata	
@ Betan Data	
C Ogar Data	
Files to be Loaded	
List Files	
	1
Biogram Cancel	
Estimated Loading Time	Flansed
	and the second sec
Progress 1	
FSA377 Cooperted	C0892
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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.

6	Are you sure you want to clear calibration data?	This will
Not the device. Do you we we have a set of the device. Do you we have a set of the device. Do you we have a set of the device.		o continue?

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.

📿 EUPA		ad a
ESA377 Upload	fer application	
Folder Location	C1D ocuments and Settings/Administrator/Desktop/EUPA	Endfolder
Calibration Data		
Cigar Data	1. MAIN, shep, code, VI.,7.bin 2.10, VI&,Alach, havdan 3.10, VI.6.eq.bin 4. MEASUHENENT_EDE_VI.9.bin 5. MEASUHENENT_EDE_VI.9.bin	
Files to be Loaded		
	Brogum Cancel	
Estimated Loading Time	Tine Elapted	
Progress		
Status Bar		
ESA377 Core	arbed. COM2	

3.9 Click the Program button to upload the files to the ESA377. The following message will be displayed, click OK to continue.

EUPA			×
į)	Existing code will be delet Are you sure	ed and new code wil you want to procee	l be uploaded. d?
	OK	Cancel	

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.

THE EUPA			
ESA377 Uplo	ader application		
Folder Location	C:\Documents and Settings\Administrator\Desktop\EUPA		Endfolder
Collination Data -			
@ Betain Data	1_MAIN_sharp_code_V1_7.bin		
C CpriDde	3 ID VI E cephin		
	5_MEASUREMENT_CODE_V1_SON		
Files to be Loaded			
THE PLAN			
	Sogram Gancel		
Estimated Loading Time	010.40.9 m	E0.10.0 m	
19	1310.46 Sec	195.19 080	
Progress			
Status Bai		Comm	TIO
Sending I_MAIN_sharp_code_v1_7.bin		COM2	

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.

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