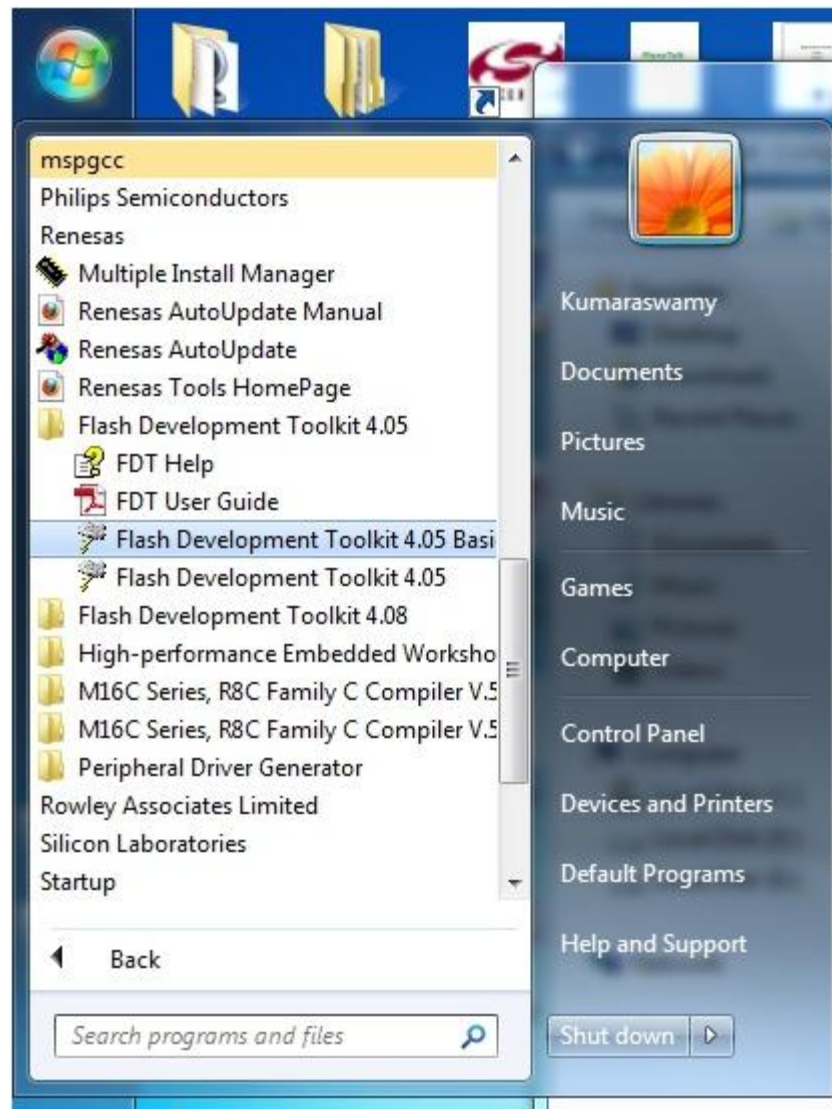


***Programming Renesas Microcontroller [R8C25276]  
through Flash Development Tool Kit 4.05 Basic***

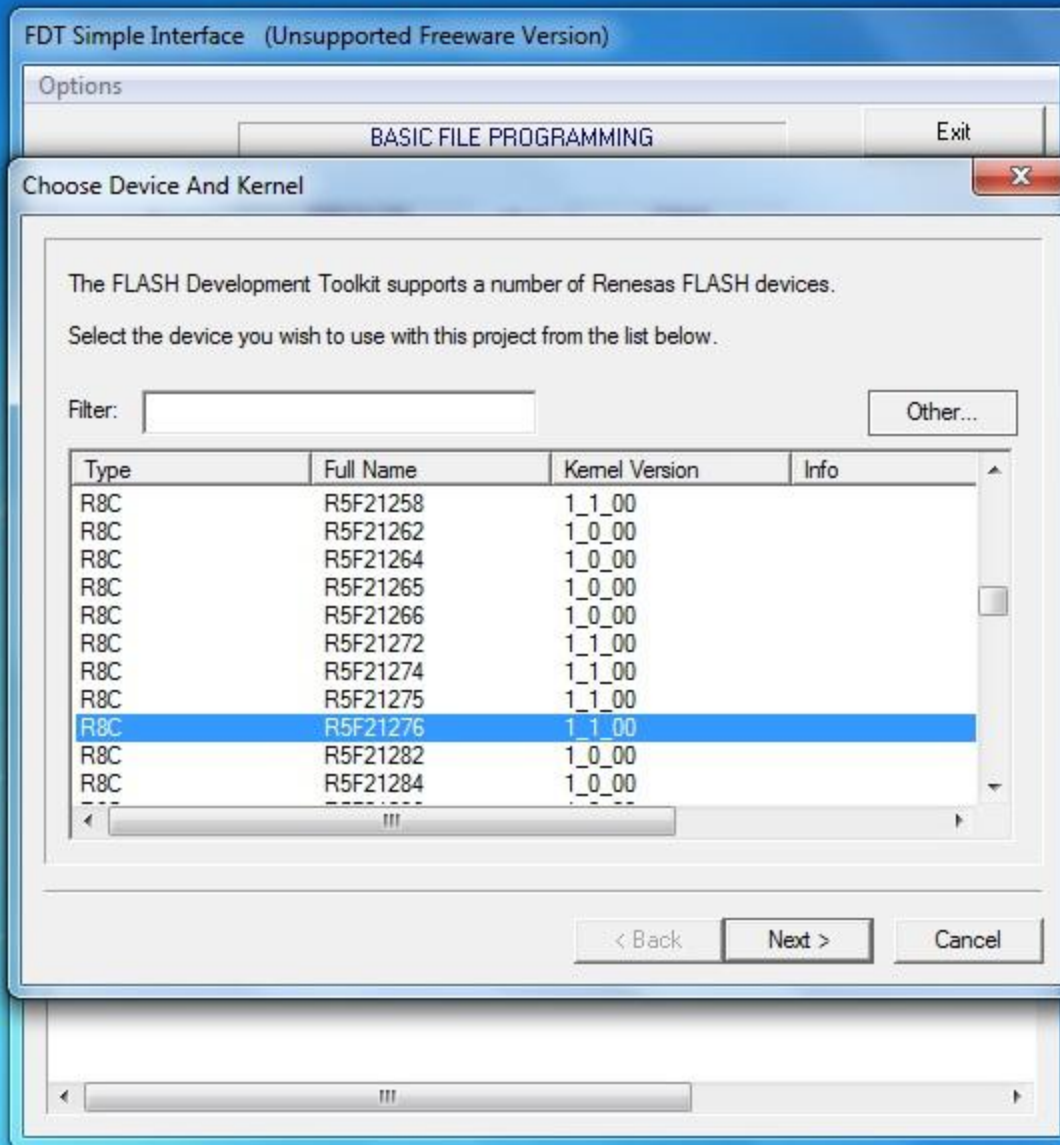
***By***

***Kumaraswamy Holla V***

Step 1: Select “*Flash Development  
Tool Kit 4.05 Basic*”



Step 2: Choose Microcontroller as  
“R5F21276” and click “Next>”



Step 3: Choose “Com1” under “select  
port”

IDE.exe bootlogo Tutorialv0\_3

Keil uVision3 sensrles\_cln wlad

Silicon Laboratori... dnw nboot\_T35

001 c4 StartLogo

NK Cooverity-IM... Rensas Hex Download

NK\_TB5\_Ev... TDA5145TS

dnw TheAvionic...

# FDT Simple Interface (Unsupported Freeware Version)

Options

BASIC FILE PROGRAMMING

Exit

## Communications Port



Use this page to select your desired communications port/interface. All settings may be changed after the project is created.

Select port:

COM1  
COM1  
COM3  
E8  
E8a

Select an Interface type to connect to the target device with. Normally this will be "Direct Connection" or simply left blank.

Select Interface:

Direct Connection

☐ Set Reset pin as low when disconnecting

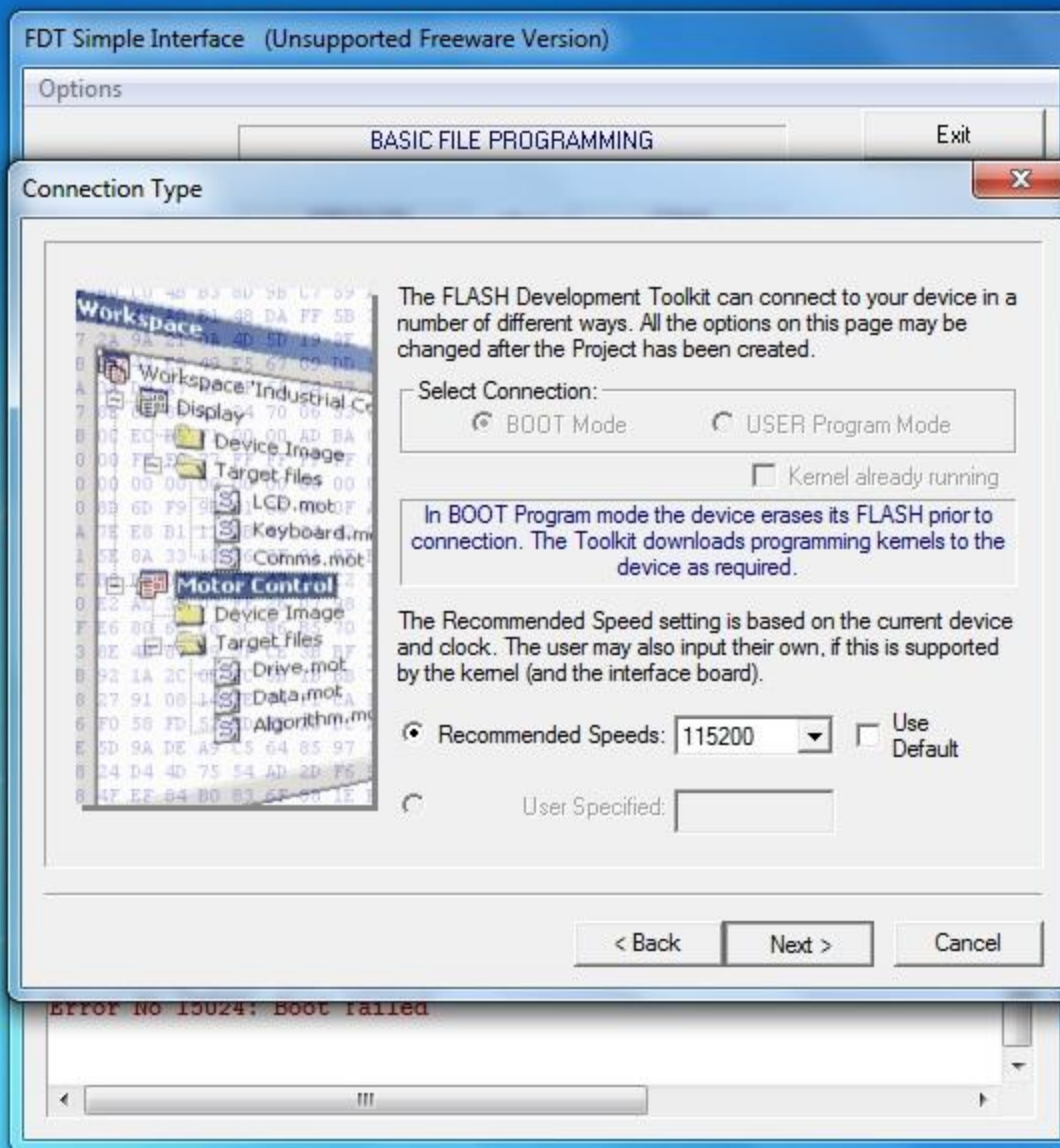
< Back

Next >

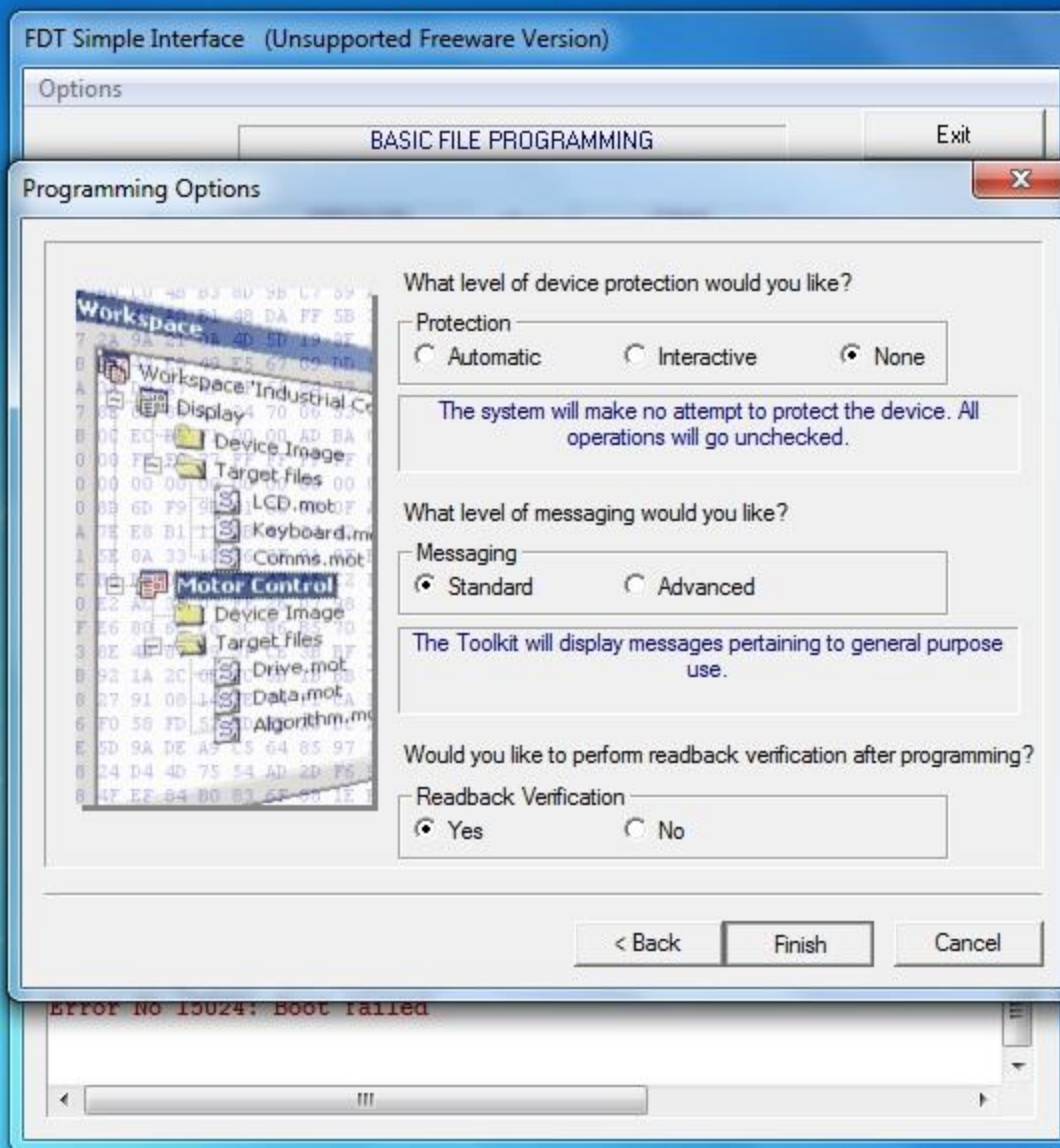
Cancel

Step 4: Choose Baud Rate as “115200”  
and click “Next>”





Step 5: Choose “None” under “Protection”,  
“Standard” under “Messaging”, “Yes”  
under “Reedback Verification” and click  
“Finish”



Step 6: Select “User/Data Area” and  
click “Browse....”

FDT Simple Interface (Unsupported Freeware Version)

Options

BASIC FILE PROGRAMMING

Exit

Device : R5F21276

Port : COM1

File Selection

☒ Download File

☒ User / Data Area D:\AumSriSaiRam\_Embedded\_System\AumSriSaiRam\_RENESAS\

☐ User Boot Area

Browse...

lcd

Program Flash

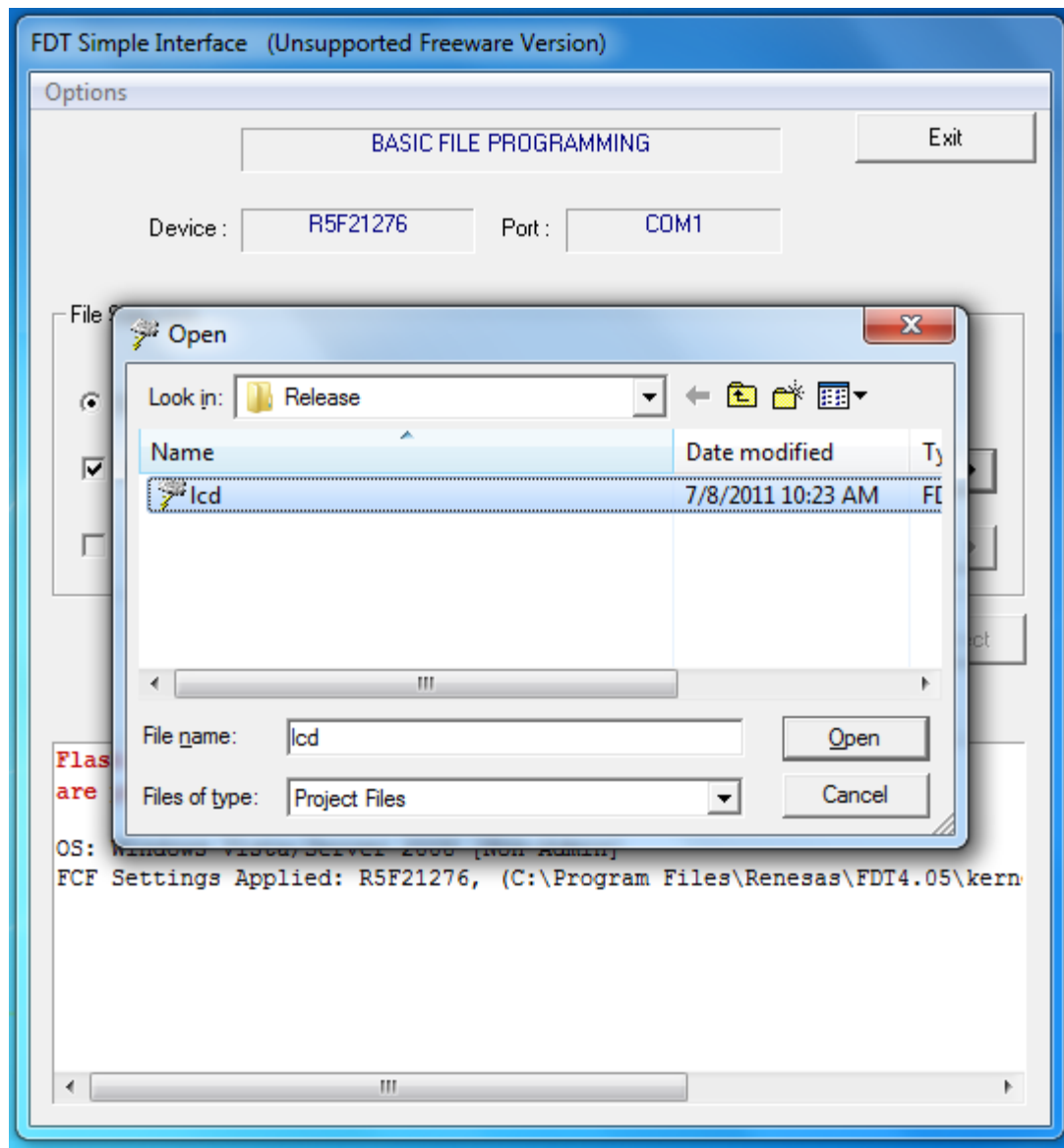
Disconnect

Flash Development Toolkit and flash programming components  
are provided without support

OS: Windows Vista/Server 2008 [Non-Admin]

FCF Settings Applied: R5F21276, (C:\Program Files\Renesas\FDT4.05\kern

Step 7: Select desired file [example  
“lcd.mot”]



Step 8: Press 2 Push Switches “On” if you like to use “USB” as the Serial Port else Press “ON” Switch 2 (SW2 or MODE/SW) and Press “Off” Switch 1 (SW1 or USB/SW) present on the board before programming. Note: If you are using USB as “Com 1” then choose USB as “Com 1” under device manager [as shown in Appendix A].



RENESAS  
R8C/27

LCD DISPLAY

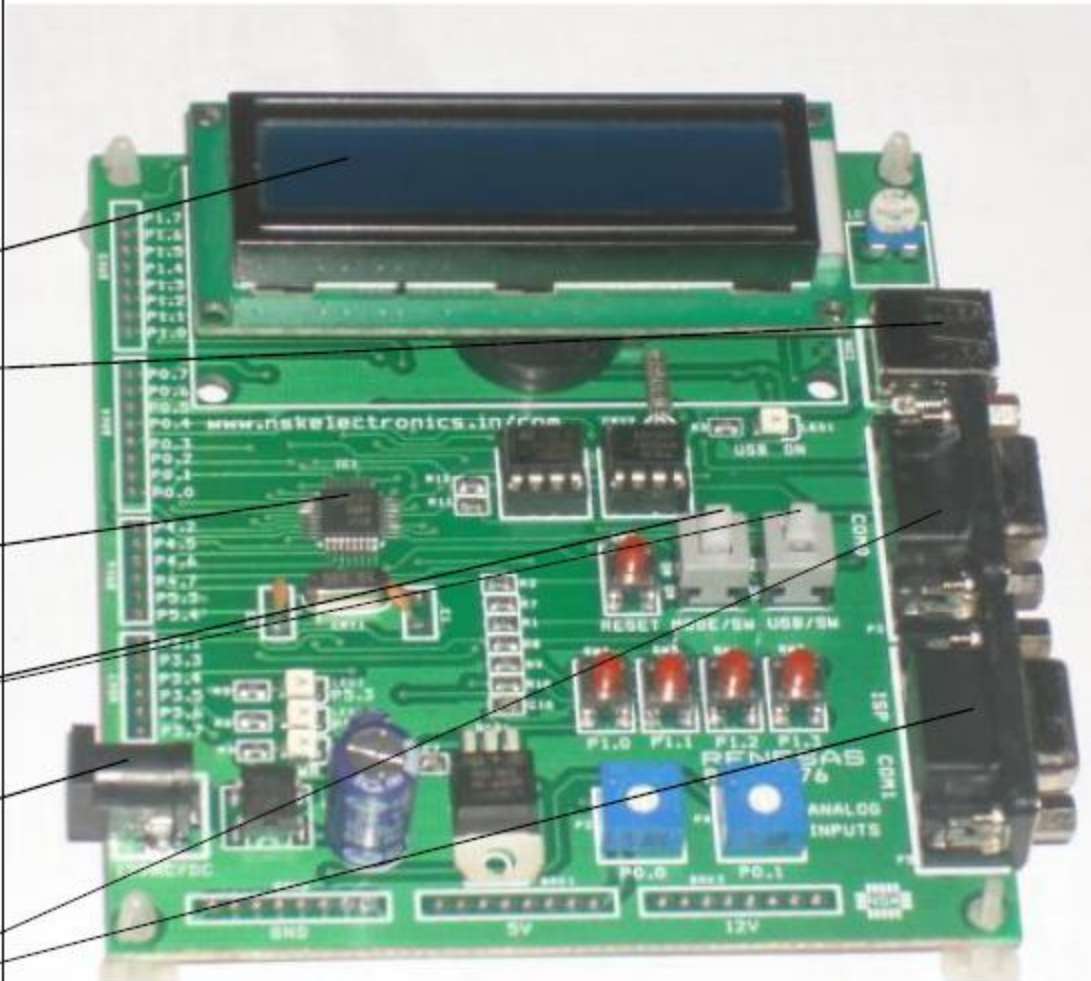
SERIAL USB

R5F21276NFP

PUSH  
SWITCHES

12V SUPPLY

2 UARTS



Step 9: Click “Program Flash” to download “hex file [in motorola format]”. After the completion of program, you will see a message stating “Verification OK”.

IDE.exe bootlogo Tutorialv0\_3

Keil uVision3 sensrles\_cln wlad

Silicon Laboratori... dnw nboot\_T35

001 c4 StartLogo

NK Coverity-IM... Rensas Hex Download

NK\_TB5\_Ev... TDA5145TS

dnw TheAvionic...

# FDT Simple Interface (Unsupported Freeware Version)

## Options

BASIC FILE PROGRAMMING

Exit

Device : R5F21276 Port : COM1

## File Selection

☒ Download File

☒ User / Data Area D:\AumSriSaiRam\_Embedded\_System\AumSriSaiRam\_RENESAS\

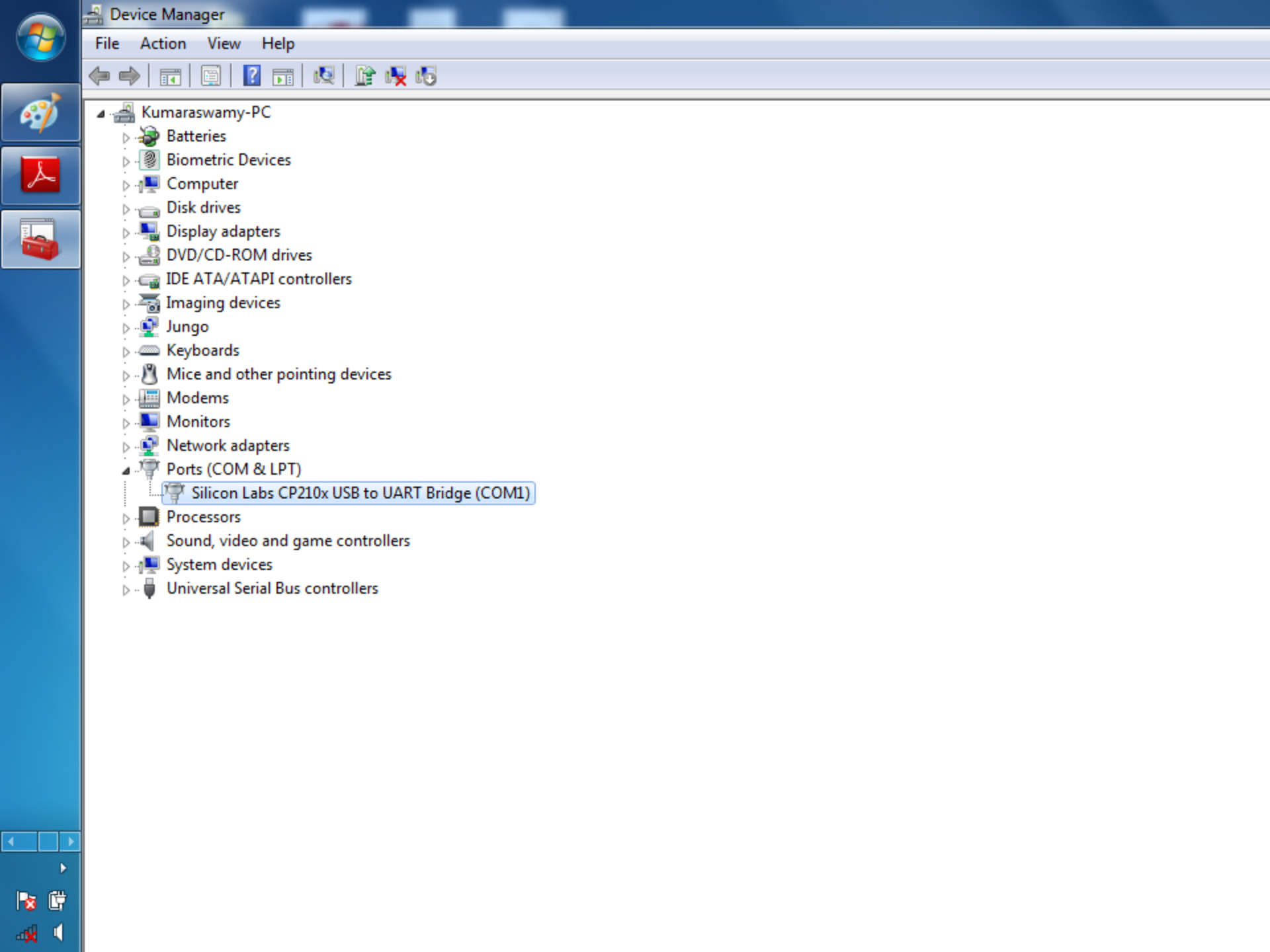
☐ User Boot Area

Program Flash

Disconnect

```
Writing image to device... [0x00008000 - 0x000083FF]
Writing image to device... [0x0000FF00 - 0x0000FFFF]
Data programmed at the following positions:
  0x00008000 - 0x000083FF      Length : 0x00000400
  0x0000FF00 - 0x0000FFFF      Length : 0x00000100
1.25 K programmed in 1 seconds
Image written to device
Verifying data...
Verification OK
```

# Appendix A



Device Manager

File Action View Help



Kumaraswamy-PC

- Batteries
- Biometric Devices
- Computer
- Disk drives
- Display adapters
- DVD/CD-ROM drives
- IDE ATA/ATAPI controllers
- Imaging devices
- Jungo
- Keyboards
- Mice and other pointing devices
- Modems
- Monitors
- Network adapters
- Ports (COM & LPT)
  - Silicon Labs CP210x USB to UART Bridge (COM1)
- Processors
- Sound, video and game controllers
- System devices
- Universal Serial Bus controllers