

Precautions on Using Flash Development Toolkit

READ this document before using this toolkit.
KEEP the document handy for future reference.

1. Action when the FDT Sends "Timeout error"

(1) When you use the FDT under the following conditions, you may get "Timeout error".

- Using low performance and small RAM PC
- Using upload function
- Using verify function after programming the flash data
- At the beginning of adjustment of baud rate

Lower the baud rate when you get this error.

(2) When you get a message " Error No 15068: Error while reading timed response" at the connection to a device, lower the baud rate.

2. Selection of 1200-bps Communication

FDT supports the following devices with 1200-bps communication speed except for connection with FDM.

Do not select 1200-bps communication speed with other devices.

(1) H8

38002F, 38004F, 38024F, 38104F, 38124F, 38324F, 38327F, 38344F, 38347F, 38424F,
38427F, 38444F, 38447F, 38522F, 38524F, 38534F, 38537F, 38702F, 38704F

3. Connection with an Adapter Board (Flash Development Module)

When the target device is a USB boot product (e.g. H8S/2215UF), connection with an adapter board (Flash Development Module) cannot be performed.

4. Setting of Frequency with H8S/2172F Device

In the H8S/2172F device, the operating frequency is doubled by the PLL circuit, but "2" cannot be chosen from the ratio conditions in FDT.

So set the value of operating frequency that was doubled by the PLL circuit as the input frequency conditions in FDT.

5. Passwords of the Access Rights

Remember the passwords if the Access Rights have been enabled.

6. Readback Verify

A verification error may occur when the programming is not successfully done due to an electrostatic damage or other factors. In this case, FDT might abend.

7. AutoUpdate Tool

(1) When you do not use the AutoUpdate tool, clear the check box for "AutoUpdate" at installation of this software.

(2) When you download an update program, the "Destination" information will be displayed on the wizard. This is the directory information on the program already installed. The installation location of the update program can be specified after the installer is started.

8. Blank Check of R8C/2x Devices

(1) Working Samples

FDT does not support a blank check for working samples of the R8C/2x devices. If you attempt to use this function, the message “Device is not blank” will appear.

(2) Mass-Produced Devices

When 0 has been written to bit 0 of the OFS register (at 0FFFFh), performing a blank check prevents further communications. Make sure that bit 0 of the OFS register is 1 before you perform a blank check.

Applicable devices:

R5F21206, R5F21207, R5F21208, R5F2120A, R5F2120C, R5F21216, R5F21217, R5F21218, R5F2121A, R5F2121C, R5F21226, R5F21227, R5F21228, R5F2122A, R5F2122C, R5F21236, R5F21237, R5F21238, R5F2123A, R5F2123C, R5F21247, R5F21248, R5F21257, R5F21258, R5F21262, R5F21264, R5F21265, R5F21266, R5F21272, R5F21274, R5F21275, R5F21276, R5F21282, R5F21284, R5F21286, R5F21292, R5F21294, R5F21296, R5F212A7, R5F212A8, R5F212AA, R5F212AC, R5F212B7, R5F212B8, R5F212BA, R5F212BC, R5F212C7, R5F212C8, R5F212CA, R5F212CC, R5F212D7, R5F212D8, R5F212DA, R5F212DC, R5F212E2, R5F212E4, R5F212F2, R5F212F4, R5F212G4, R5F212G5, R5F212G6, R5F212H1, R5F212H2, R5F212J0, R5F212J1, R5F212K2, R5F212K4, R5F212L2, R5F212L4

9. Device Protection Option when an M16C/30P One-Time Flash Device is in Use

When you have selected “Automatic” or “Interactive”, FDT operates in the same way as when “None” is selected.

10. CRC Verification of R32C Devices

If you attempt to program a device that is not blank, a CRC verification error may occur. In such cases, perform “Readback Verification” to verify that the data was programmed successfully.

11. Windows Vista(R)

This application does not support the 64-bit edition.

12. Type Names of the M16C/50 and M16C/60 Series

The suffix “_xLine” for type names of products in the M16C/50 and M16C/60 series indicates that the devices are intended for x-line connection only.

13. Type Names of the R32C/100 Series

If you wish to program a device that has E2 data flash memory, select either of the following type names according to whether or not the data to be written to the device includes ECC data.

- When ECC data is included: R5F64xxx_ECC
- When ECC data is not included: R5F64xxx

14. Communications Speed for the R8C/3x and R8C/Lx Series

While an R8C/3x or R8C/Lx series device is connected to the FDT via an E8a, communication at 125 kbps is not possible.

15. Clock Input in Cases Where the FDT is Connected via RS-232C

Some devices only support external clock sources for the FDT connected via RS-232C. If you are using any of the devices given below, only use external clock sources.

Device groups in the M16C family:

56, 56D, 5L, 5LD, 63, 64A, 65, and 6C

16. Installing USB Drivers under Windows Vista®

If the FDT (V.4.04 or later) does not correctly recognize any of the supported USB drivers, follow the procedure below to manually install the drivers.

(1) Double-click on “dpinst.exe” in the following installation directory.

(a) When the FDT is connected via an E8a:

C:\Program Files\Renesas\FDT4.xx\Drivers\for_32bit\E8a_USB

(b) When the FDT is connected via an E8:

C:\Program Files\Renesas\FDT4.xx\Drivers\for_32bit\Renesas_E_Series_USB

(c) Other:

C:\Program Files\Renesas\FDT4.xx\Drivers\for_32bit\Hmse_USB

Note: These are the default installation directories.

(2) The [User Account Control] dialog box saying “An unidentified program wants access to your computer” and “Don’t run the program unless you know where it’s from or you’ve used it before.” appears. To continue the installation, click on [Allow].

Note: “dpinst.exe” is a driver-package installation utility provided by Microsoft Corporation.

(3) [Device Driver Installation Wizard] appears. Click on the [Next] button.

(4) A dialog box appears asking “Would you like to install this device software?”. Click on the [Install] button.

(5) When the driver installation is complete, click on the [Finish] button on the [Device Driver Installation Wizard] screen.

17. Changing the Project

After the FDT has been connected to a generic boot device via the USB adapter board (FDM), you cannot re-connect the FDT by simply changing the communications port to “E8aDirect”. In this case, create a new project before re-connecting the FDT.