

Notes on Using Software Tools for Flash Memory Programmer PG-FP5 --With Using the Minimum Unit Programming Function for the Data Flash Memory with MCUs of V850 Family--

When using the minimum unit programming function for the data flash memory with the software tools for the flash memory programmer PG-FP5, take note of the following problems:

- With the option bytes and OCD security ID settings
 - With downloading program files in the code flash area
 - With downloading program files in the data flash area
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1. Problem with Option Bytes and OCD Security ID Settings

1.1 Software Tools and Versions Concerned

The following software tools, which are used for the PG-FP5, are concerned with this problem:

- Firmware for PG-FP5 V2.10 and V2.11
- Programming GUI for PG-FP5 V2.10 and V2.11

1.2 MCUs Involved

In V850 family

V850E2/Fx4-L, V850E2/FF4-G, V850E2/FG4-G and V850E2/Px4-L groups

1.3 Description

If the conditions described in 1.4 below are met, changed values are not saved in ESF files.

The values of the option bytes and OCD security ID previously saved are, therefore, downloaded to the PG-FP5.

1.4 Conditions

The problem occurs when all of the following conditions are met:

- (1) The minimum unit programming function for the data flash memory

is enabled.

- (2) Downloading to the PG-FP5 proceeds after the values of the option bytes and OCD security ID are changed.

1.5 Workaround

To ensure that changed values of the option bytes and OCD security ID are saved, change the values while the minimum unit programming function for the data flash memory is disabled.

Enable the minimum unit programming function after that.

To set the programming environment for ESF files, follow these steps:

- (1) Select the Advanced tab in the Device Setup dialog box.
- (2) Clear the check mark from the Minimum Unit Programming check box in the Command options area to disable the minimum unit programming function for the data flash memory.
- (3) Change the value in the OCD security ID setting text box in the Flash options area, select the option bytes you wish to change from the option bytes setting drop-down list and change the value in the Option bytes setting text box.
- (4) Click on the OK button to close the Device Setup dialog box.
- (5) Open the Device Setup dialog box again and select the Advanced tab.
- (6) Select the Minimum Unit Programming check box in the Command options area to enable the minimum unit programming function for the data flash memory.
- (7) Click on the OK button to close the Device Setup dialog box.

1.6 Schedule for Fixing the Problem

A new version with the problem corrected is planned.

2. Problem with Downloading Program Files in Code Flash Area

2.1 Software Tools and Versions Concerned

The following software tools, which are used for the PG-FP5, are concerned with this problem:

- Firmware for PG-FP5 V2.11
- Programming GUI for PG-FP5 V2.11

2.2 MCUs Involved

In V850 family

V850E2/Fx4-L, V850E2/FF4-G and V850E2/FG4-G groups

2.3 Description

If a program file is downloaded to the PG-FP5 under the conditions described in 2.4 below, incorrect data is downloaded in the code flash area. Even if incorrect data is downloaded, however, no error messages appear.

2.4 Conditions

The problem occurs when all of the following conditions are met:

- (1) The minimum unit programming function for the data flash memory is enabled.
- (2) The program file for downloading is the one in Intel HEX format.
- (3) The program file for downloading includes data for both the code flash and data flash memory.

2.5 Workaround

Downgrade software for the PG-FP5 to the previous version and use it.

Download the previous version from:

Firmware for PG-FP5 V2.10 ([Click here to download.](#))

Programming GUI for PG-FP5 V2.10 ([Click here to download.](#))

The above URLs are those of our global sites.

2.6 Schedule for Fixing the Problem

A new version with the problem corrected is planned.

3. Problem with Downloading Program Files in Data Flash Area

3.1 Software Tools and Versions Concerned

The following software tools, which are used for the PG-FP5, are concerned with this problem:

- Firmware for PG-FP5 V2.11
- Programming GUI for PG-FP5 V2.11

3.2 MCU Involved

In V850 family

V850E2/Px4-L group

3.3 Description

If a program file is downloaded to the PG-FP5 under the conditions described in 3.4 below, incorrect data may be downloaded in the data flash area. Even if incorrect data is downloaded, however, error messages do not necessarily appear.

3.4 Conditions

The problem occurs when all of the following conditions are met:

- (1) The minimum unit programming function for the data flash memory is enabled.
- (2) The program file for downloading includes data for both the code flash and data flash memory.

3.5 Workaround

Only download a program file to the PG-FP5 after disabling

the minimum unit programming function for the data flash memory.
When downloading a program file that includes data for both the
code flash and data flash memory to the PG-FP5,
the minimum unit programming function cannot be used.

3.6 Schedule for Fixing the Problem

A new version with the problem corrected is planned.

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