

[Notes]

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Rev.1.0

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PG-FP6/PG-FP5 Flash Memory Programmer,

Renesas Flash Programmer

Outline

When using the PG-FP6/PG-FP5 flash memory programmer or Renesas Flash Programmer, take note of the following point.

1. Point for caution regarding enabling of the intelligent cryptographic unit slave E (ICUSE) of the RH850/C1M-A, RH850/F1K, RH850/F1KM-S1, RH850/P1L-C, and RH850/P1M-E groups

1. Point for caution regarding enabling of the intelligent cryptographic unit slave E (ICUSE) of the RH850/C1M-A, RH850/F1K, RH850/F1KM-S1, RH850/P1L-C, and RH850/P1M-E groups

1.1 Applicable Products

- Programming GUI “FP6 Terminal” for PG-FP6
V1.00.00, V1.01.00, V1.01.01, V1.02.00, V1.02.01, and V1.03.00
- Programming GUI for PG-FP5 V2.14 and V2.15
Firmware for PG-FP5 V2.14, V2.15, and V2.16
- Renesas Flash Programmer
V3.02.00, V3.02.01, V3.03.00, V3.03.01, V3.04.00, V3.05.00, and V3.05.01

1.2 Applicable MCUs

RH850 family

| Group | Part number |
|---------------|---|
| RH850/C1M-A | R7F701275, R7F701278 |
| RH850/F1K | R7F701542, R7F701543, R7F701546, R7F701547, R7F701557, R7F701560, R7F701561, R7F701562, R7F701563, R7F701566, R7F701567, R7F701577, R7F701580, R7F701581, R7F701582, R7F701583, R7F701586, R7F701587, R7F701597, R7F701602, R7F701603, R7F701610, R7F701611, R7F701612, R7F701613, R7F701620, R7F701621, R7F701622, R7F701623 |
| RH850/F1KM-S1 | R7F701684, R7F701685, R7F701686, R7F701687, R7F701688, R7F701689, R7F701690, R7F701691, R7F701692, R7F701693, R7F701694, R7F701695 |
| RH850/P1L-C | R7F701388, R7F701389, R7F701390, R7F701391 |
| RH850/P1M-E | R7F701375, R7F701376, R7F701377, R7F701378, R7F701379, R7F701380, R7F701381, R7F701382, R7F701383, R7F701384, R7F701385, R7F701386 |

1.3 Details

If you enable ICUSE and write an option byte (OPBT) at the same time, FFFFFFFFh is written instead of the value set in option byte 9 (OPBT9).

1.4 Workaround

Do not change the [Set Option] of [Option Bytes] (OPBT) to [Set] while enabling ICUSE. Instead, after enabling ICUSE of the MCU, set the option byte separately. The separate setting procedure for the option byte for each programmer is as follows:

➤ PG-FP6

- (1) Carry out the following settings in the [Setup] dialog box.
 - Select “Do Nothing” for [Set Option] of all items except for [Option Bytes] on the [Flash Option] tab.
 - Select “Set” for [Set Option] of [Option Bytes].
 - Select “Enable” for [Enable Extended Option Bytes].
 - Enter a value you want to set for each OPBT.
 - Select [Program Flash Option] checkbox on the [Operation Setting] tab.
- (2) Execute [Program Flash Options] in the [Target] menu.
Alternately, execute the “pfo” or “opb” communication command.

➤ PG-FP5

- (1) Carry out the following settings in the Device Setup dialog box.
 - Select [Enable Extended Option Bytes] checkbox on the [Standard] tab.
 - Enter a value you want to set for each OPBT.
- (2) Execute [Set Option Bytes] in the [Device] menu.
Alternately, execute the “opb” communication command.

Note: In the case of RH850/P1L-C, there is no workaround for PG-FP5.
Use PG-FP6 or Renesas Flash Programmer to change the settings.

➤ Renesas Flash Programmer

- (1) Carry out the following settings:
 - Select “Do Nothing” for [Set Option] of all items except for [Option Bytes] on the [Flash Option] tab.
 - Select “Set” for [Set Option] of [Option Bytes].
 - Select “Enable” for [Enable Extended Option Bytes].
 - Enter a value you want to set for each OPBT.
 - Select only [Program Flash Options] on the [Operation Setting] tab.
- (2) Click on [Start].

Note: The setting menu for enabling the intelligent cryptographic unit slave is commonly displayed as “ICU-S”. In this note, it is indicated as “ICUSE”.

1.5 Schedule for Fixing the Problem

- This problem will be fixed in Programming GUI “FP6 Terminal” for PG-FP6 V1.03.01. (Scheduled to be released in April 2019.)
- This problem will be fixed in Programming GUI for PG-FP5 V2.17 and Firmware for PG-FP5 V2.17. (Scheduled to be released in April 2019.)
- This problem will be fixed in Renesas Flash Programmer V3.05.03. (Scheduled to be released in April 2019.)

Revision History

| Rev. | Date | Description | |
|------|---------------|-------------|----------------------|
| | | Page | Summary |
| 1.00 | Feb. 01, 2019 | - | First edition issued |
| | | | |

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