

[Notes]

R20TS0399EJ0100

Rev.1.0

Feb. 01, 2019

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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