

[Notes]
PG-FP6 Flash Memory Programmer
(Address ranges of the V850ES/Jx3)

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Outline

When using the PG-FP6 flash memory programmer, note the following point.

1. Address ranges of the V850ES/Jx3

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1.1 Applicable Products

Programming GUI for PG-FP6 (FP6 Terminal) versions from V1.00.00 to V1.15.00

1.2 Applicable Devices

V850ES/Jx3: UPD70F3742, UPD70F3746

1.3 Details

Operations concerning the address range from 0x000F1000 to 0x000FFFFFF (60 KB) of the applicable device do not proceed correctly. If this area is not to be used, programming will correctly proceed and this problem has no effect on the operation of the device. However, the PG-FP6 cannot calculate the file checksum for the range of correct operation. The phenomena that arise differ with the versions of the FP6 Terminal; the following describes details of cases where correct operation is not possible as phenomena 1 to 3.

- Phenomenon 1: FP6 Terminal V1.04.00 to V1.15.00

Program files that include information for the address range from 0x000F1000 to 0x000FFFFFF cannot be downloaded to the PG-FP6. The operation becomes as described below according to the settings of the FP6 Terminal.

- A) When [Enable Program File Size Monitor] in the [FP6 Options] dialog box opened from [Programmer Setting] of the FP6 Terminal is selected (This checkbox is selected by default.):
If a program file having data for the applicable range is downloaded to the PG-FP6, the following error message will appear and downloading will fail.
ERROR(E302): HEX file exceeds target device flash range.

- B) When [Enable Program File Size Monitor] in the [FP6 Options] dialog box opened from [Programmer Setting] of the FP6 Terminal is not selected:

If a program file having data for the applicable range is downloaded to the PG-FP6, the following warning message will appear in the log.

WARNING: HEX file exceeds FP6 Programming area size.

In this case, data for the applicable range cannot be correctly downloaded but are handled as FFh during programming or verification, and no error occurs. For example, when a program file with data for the range from 0x00000000 to 0x000FFFFFF is to be programmed, data from the file are written to 0x00000000 to 0x000F0FFF but FFh is written to 0x000F1000 to 0x000FFFFFF.

- Phenomenon 2: FP6 Terminal V1.00.00 to V1.15.00

When [File Checksum] is used, the range from 0x000F1000 to 0x000FFFFFF is not included in the calculation. For example, when 0x000FFFFFF is specified for the end address as shown below, calculation for the range only proceeds up to the end address 0x000F0FFF.

```
>fcks crc 00000000 000FFFFFF
```

Checksum Code Flash 1 : 00000000-000F0FFF = 86583AEA

➤ Phenomenon 3: FP6 Terminal V1.03.00 to V1.15.00

When “All Areas” is selected for [Select Area] in the [Read Device Memory] dialog box, the range from 0x000F1000 to 0x000FFFFF cannot be read. With the communications command of the PG-FP6, the operation is the same as when the ‘all’ option is used with the read command.

1.4 Schedule for Fixing the Problem

This problem will be fixed in Programming GUI for PG-FP6 (FP6 Terminal) V1.16.00.

(Scheduled to be released on Apr. 21, 2025)

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Mar.20.25	-	First edition issued

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