

Note on Using RX E1/E20 Emulator Debugger V.1.02.00 (for High-performance Embedded Workshop)

When using the E1/E20 Emulator Debugger for the RX family of MCUs, take note of the following problem:

- With using the debugger in the "Writing the on-chip flash memory" mode
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1. Product Concerned

RX E1/E20 Emulator Debugger V.1.02.00
(for High-performance Embedded Workshop)

Note that the E1/E20 Emulator Debugger for the RX family included in the CubeSuite+ package is not concerned because it does not support the "Writing the on-chip flash memory" mode.

2. Description

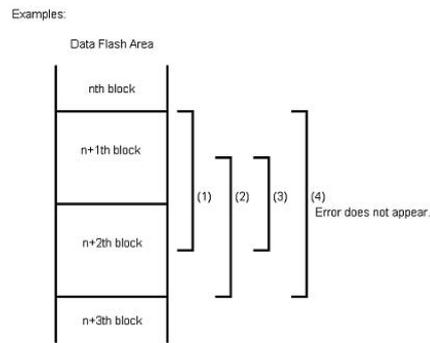
When you load a program onto the Data Flash area in the "Writing the on-chip flash memory" mode, a verification error may appear even if the programming is complete.

3. Conditions

The problem arises if the following conditions are all satisfied:

- (1) An MCU belonging to any of the following groups is used:
RX610 group, RX62N group, RX621 group, and RX62T group,
- (2) The program loaded onto the Data Flash area does not begin at the beginning address of a block of this area, or the program does not end at the ending address of the same or another one.

We show the examples where this problem arises and does not in the illustration in the below.



- (1) Example where the loaded program does not end at the ending address of a block

If the loaded program begins at the beginning address of the n+1th block and ends before the ending one of the next block, a verification error may appear.

- (2) Example where the loaded program does not begin at the beginning address of a block

If the loaded program begins after the beginning address of the n+1th block and ends at the ending one of the next block, a verification error may appear.

- (3) Example where the loaded program does not begin at the beginning address of a block and does not end at the ending one of another block

If the loaded program begins after the beginning address of the n+1th block and ends before the ending one of the next block, a verification error may appear.

- (4) Example where no verification error appears

If the loaded program begins at the beginning address of the n+1th block and ends at the ending one of the next block, no verification error appears.

4. Workarounds

If you are using any MCU satisfying Condition (1) above except the R5F562T6 and the R5F562T (both in the RX62T group), do either of the following:

- (1) Load the program onto the Data Flash area so that it can begin at the beginning address of a block of this area and end at the ending address of the same or another one.
- (2) Make programming by using Flash Development Toolkit or Renesas Flash Programmer.

If you are using the R5F562T6 or the R5F562T, do not use the debugger in the "Writing the on-chip flash memory" mode, but do Workaround (2). For another problem relating to this mode, see RENESAS TOOL NEWS

Document No. 120216/tn8 at:

<https://www.renesas.com/search/keyword-search.html#genre=document&q=120216tn8>

5. Schedule of Fixing Problem

We plan to fix this problem in the next version of the product.

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