

Note on Using Debugging Functions for RL78 Family in Integrated Development Environment CubeSuite+

When using the debugging function for the RL78 family of MCUs in CubeSuite+, take note of the following problem:

- With using the real-time RAM-monitoring function in on-chip debugging
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1. Products and Versions Concerned

- CubeSuite+ whose common program group is of V1.02.00
- Evaluation Edition of CubeSuite+ whose common program group is of V1.02.00

The debugging function for the RL78 family included in the above IDEs is involved in this problem.

2. Description

Suppose that after executing the on-chip debugging of a system designed with any MCU of the RL78 family by using CubeSuite+'s common program group V1.01.01 or earlier, you again debug the system on chip by using either of the CubeSuite+ products concerned.

If you turn on the real-time RAM-monitoring function of CubeSuite+; then execute the function for making the IDE and the debugging tool communicate, the following error message may appear, and you fail to link the both.

Download failed.

[Direct Error Cause]

Extended monitor area is not blank [E1903128]

3. Workaround

To avoid this problem, do either of the following. If you once succeed in the communication, thereafter the above-mentioned error will not appear.

- (1) Before executing on-chip debugging by using either of the IDEs concerned, make sure that the real-time RAM-monitoring function is turned off. Next, make the IDE and the debugging tool communicate; then turn on the real-time RAM-monitoring function.
- (2) Erase all the blocks of flash memory with a flash memory programmer; then execute on-chip debugging by using either of the IDEs concerned.

4. Schedule of Fixing Problem

We plan to fix this problem in the next version of CubeSuite+'s common program group (to be published on July 2012).

If you need to take measures against this problem up to the above time, please consult your local Renesas Electronics marketing office or distributor.

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