RENESAS Tool News

Note on Using Code Generator for RL78 Family, 78K0R, and 78K0 MCUs Managed by CubeSuite+

When using CubeSuite+ Code_Generator for RL78_78K, the code generator for the RL78 Family, 78K0R, and 78K0 MCUs managed by CubeSuite+, take note of the following problems:

- With code for initialization when setting external interrupts (78K0R/Kx3-L)
- When a RL78/G13 product in a 100-pin package is selected (RL78/G13 Group)
- With the key input interrupt setting (RL78/L12 Group)
- With A/D converter operation setting (RL78/G1A Group)
- When the timer KB20 is in use (RL78/L13 Group)

1. Problem with Code for Initialization When Setting External Interrupts (78K0R/Kx3-L)

1.1 Product and Versions Concerned
CubeSuite+ Code_Generator for RL78_78K V2.00.01

1.2 MCUs Involved
78K0R: 78K0R/Kx3-L

1.3 Description
In the 78K0R/Kx3-L (with 44 or 48 pins), when the external interrupt INTP3 or INTP7 is selected, the code for initialization which changes PIM8 into a digital signal is not present.

1.4 Workaround
Manually add the code for initialization to set the digital I/O enable bit of the PIM8 to 1.

1.5 Schedule for Fixing the Problem
This problem will be fixed in the next version of CubeSuite+.

2. Problem when a RL78/G13 Product in a 100-Pin Package is Selected (RL78/G13 Group)

2.1 Product and Versions Concerned
CubeSuite+ Code_Generator for RL78_78K V2.00.01

2.2 MCUs Involved
RL78/G13 group of MCUs (RL78 family)

2.3 Description
When a product of the RL78/G13 group in a 100-pin package is selected,
starting the pin configuration tool after changing the package type
from FB to FA in the pin configuration tool property terminates
the CubeSuite+.

2.4 Workaround
When a product of the RL78/G13 group in a 100-pin package is selected,
do not select the FA package.

2.5 Schedule for Fixing the Problem
This problem will be fixed in the next version of CubeSuite+.

3. Problem with the Key Input Interrupt Setting (RL78/L12 Group)
3.1 Product and Versions Concerned
CubeSuite+ Code_Generator for RL78_78K V2.00.01

3.2 MCUs Involved
RL78/L12 group of MCUs (RL78 family)

3.3 Description
The setting of Key interrupt flag and Detection edge may not be saved.
When saving the project after making the new setting and then reloading
the project, the setting reverts to the original setting as
the new one had not been saved.

3.4 Workaround
After reloading the project, check that the setting of
Key input interrupt is the same as the setting which was made
before reloading.

3.5 Schedule for Fixing the Problem
This problem will be fixed in the next version of CubeSuite+.

4. Problem with A/D Converter Operation Setting (RL78/G1A Group)
4.1 Product and Versions Concerned
CubeSuite+ Code_Generator for RL78_78K V2.00.01

4.2 MCUs Involved

RL78/G1A group of MCUs (RL78 family)

4.3 Description

The Conversion time mode of the Conversion time setting may not be saved.
When saving the project after making the new setting and then reloading the project, the setting reverts to the original setting as the new one had not been saved.

4.4 Workaround

After reloading the project, check that the setting of Conversion time mode is the same as the setting which was made before reloading.

4.5 Schedule for Fixing the Problem

This problem will be fixed in the next version of CubeSuite+.

5. Problem when the Timer KB20 is in Use (RL78/L13 Group)
5.1 Product and Versions Concerned

CubeSuite+ Code_Generator for RL78_78K V2.00.01

5.2 MCUs Involved

RL78/L13 group of MCUs (RL78 family)

5.3 Description

When the timer KB20 is in use, the settings for Standalone mode (period controlled by external trigger input) and Interleave PFC (power factor correction) output mode may prevent the correct output of the API functions.

5.4 Workaround

Make settings in Code Preview so that the following API functions are output manually.
 - R_KB20_Create
 - R_KB20_Start
 - R_KB20_Stop
 - R_KB20_Set_BatchOverwriteRequestOn
 - R_KB20_TKBO0n_SmoothStartFunction_Start
 - R_KB20_TKBO0n_SmoothStartFunction_Stop
 - R_KB20_TKBO0n_DitheringFunction_Start
 - R_KB20_TKBO0n_DitheringFunction_Stop
 - R_KB20_TKBO0n_Forced_Output_Stop_Function1_Start
 - R_KB20_TKBO0n_Forced_Output_Stop_Function1_Stop

5.5 Schedule for Fixing the Problem

This problem will be fixed in the next version of CubeSuite+.