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## Note on Using Code Generator for RL78 Family Managed by e<sup>2</sup> studio

When using Code\_Generator managed by e<sup>2</sup> studio, which is a function for generating codes that can be used by installing the e<sup>2</sup> studio, take note of the following problems:

- With the key input interrupt setting
- With A/D converter operation setting
- When the timer KB20 is in use
- When reloading a project
- With outputting comments

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### 1. Problem with the Key Input Interrupt Setting

#### 1.1 Product and Versions Concerned

e<sup>2</sup> studio Code\_Generator V1.00.00

#### 1.2 MCUs Involved

RL78/L12 group of MCUs (RL78 family)

#### 1.3 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.

#### 1.4 Workaround

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

#### 1.5 Schedule for Fixing the Problem

This problem will be fixed in the next version of e<sup>2</sup> studio.

### 2. Problem with A/D Converter Operation Setting

## **2.1 Product and Versions Concerned**

e<sup>2</sup> studio Code\_Generator V1.00.00

## **2.2 MCUs Involved**

RL78/G1A group of MCUs (RL78 family)

## **2.3 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.

## **2.4 Workaround**

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

## **2.5 Schedule for Fixing the Problem**

This problem will be fixed in the next version of e<sup>2</sup> studio.

## **3. Problem when the Timer KB20 is in Use**

### **3.1 Product and Versions Concerned**

e<sup>2</sup> studio Code\_Generator V1.00.00

### **3.2 MCUs Involved**

RL78/L13 group of MCUs (RL78 family)

### **3.3 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.

### **3.4 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

### **3.5 Schedule for Fixing the Problem**

This problem will be fixed in the next version of e<sup>2</sup> studio.

## **4. Problem When Reloading a Project**

### **4.1 Product and Versions Concerned**

e<sup>2</sup> studio Code\_Generator V1.00.00

### **4.2 MCUs Involved**

RL78/G1A, RL78/G12, RL78/G13, RL78/G14, RL78/I1A, and RL78/L12 group of MCUs (RL78 family)

### **4.3 Description**

(1) After saving a project and reloading it by restarting e<sup>2</sup> studio, or importing an existing project file, an incorrect code is generated and a build error occurs when generating code in the context menu of project perspective.

(2) After saving a project and reloading it by restarting e<sup>2</sup> studio, or importing an existing project file, an error occurs when opening the code generation property. After that, an error occurs every time when clicking the code generation node.

### **4.4 Workaround**

(1) Generate code after opening the peripheral function perspective once, when reloading an existing project.

If the peripheral function perspective is not opened and code is generated, code generator keeps generating incorrect code.

In this case, finish e<sup>2</sup> studio without saving the code generation settings and reload the project and follow the above workaround steps to avoid generating incorrect code.

(2) Do not open the code generation property after reloading the project.

### **4.5 Schedule for Fixing the Problem**

This problem will be fixed in the next version of e2 studio.

## **5. Problem with Outputting Comments**

### **5.1 Product and Versions Concerned**

e<sup>2</sup> studio Code\_Generator V1.00.00

## 5.2 MCUs Involved

RL78/G10 group of MCUs (RL78 family)

## 5.3 Description

When generating code corresponding to the gcc compiler, date information is outputted to the version comments box in the function header of the r\_cg\_reset\_program.asm.

## 5.4 Solution

This problem will be fixed in the next version of e<sup>2</sup> studio.

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