RENESAS Tool News

Note on Using Code Generator for RL78 Family, 78K0R, and 78K0 MCUs, Which is Used with CubeSuite+

When using the code generator for the RL78 family, 78K0R, and 78K0 MCUs, which is used with CubeSuite+, take note of the following problem:

- With using the code generator for the RL78/G12 group

1. Product and Versions Concerned

CubeSuite+ Code_Generator for RL78_78K V1.00.04 and V1.00.05

To check to see the version number of your product, follow these steps:
  (1) Open the Add/Remove Programs list in Windows Control Panel.
  (2) Click the icon of CubeSuite+ Code_Generator for RL78_78K.
  (3) Then click "Click here for support information."
     You see the version number of yours.

2. Description

The following problem arises in the code generator for the RL78/G12 group included in the product concerned:
 - If you make settings of the key interrupt flag and the triggering
   edge, the settings cannot properly be reflected to the KRCTL register
   by the generated code.

Example:
   If you select Use among from the key flag pull-down list and
   Falling Edge among from the triggering edge pull-down list,
   the code generator generates the following incorrect codes.

        KRCTL |= _00_KR_FLAG_UNUSED;

```
KRCTL |= _01_KR_EDGE_RISING;
```

The correct codes are as follows:
```
KRCTL |= _01_KR_FLAG_USED;
KRCTL |= _00_KR_EDGE_FALLING;
```

3. Workaround

See the latest hardware manual of the RL78/G12 group of MCUs, and edit the incorrect codes to rectify them.

4. Schedule of Fixing Problem

We plan to fix this problem in the code generator for RL78 and 78K included in the next version of CubeSuite+ (to be published at the end of 2012).