
QB-RL78G13 (Control Code: B, C)R20UT2474EJ0100
Rev.1.00
February 4, 2013

This document describes the following items. Refer to the user's manual for cautions on using an in-circuit emulator.

- Restrictions not applicable to the target device but applicable to an in-circuit emulator
- Restrictions applicable to both the target device and an in-circuit emulator but the correction is planned only for the in-circuit emulator

Also refer to the following documents for the restrictions in the target device.

- User's manual of target device
- Restrictions notification document for target device

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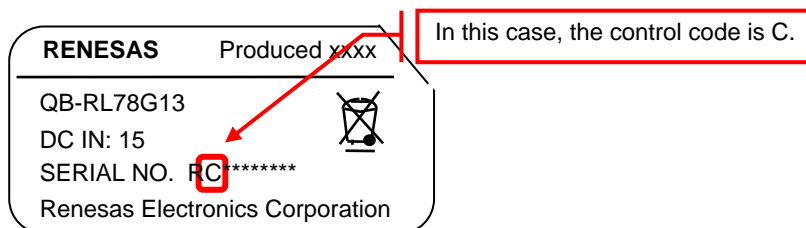
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Chapter 1. Product version

1.1 Control Code

The product versions of Renesas Electronics in-circuit emulators IECUBE are indicated by a control code. The control code is the second digit from the left in the 10-digit serial number.

Figure 1. Checking Control Code (Label on QB-RL78G13)



Chapter 2. Changed Specifications

2.1 List of changed specifications

No.	Changed or Added Specifications	Control Code	
		A	B
1	Emulating the 3-wired serial I/O (CSI) *Only RL78/G13 group	×	○

×: Change not implemented, ○: Change implemented

2.2 Details of specifications

- No.1 Emulating the 3-wired serial I/O (CSI) *Only RL78/G13 group
【contents】 When emulating the RL78/G13 group of MCUs, the following capability has been supported:
 - Emulating systems equipped with the 3-wired serial I/O (CSI**) whose baud rate is 16 Mbps or 12 Mbps

Chapter 3. Restrictions

3.1 List of restrictions

Restrictions applicable, depending on the combination of control code of IECUBE and CubeSuite+ version.
Please refer to 3.2 List of restrictions.

No.	Restrictions
1	On Supplying the Negative Reference Voltage to the A/D Converter
2	On Setting the I/O types of the P60/SCLA0 Pin

3.2 List of restrictions

IECUBE Control Code	CubeSuite+ version	Restriction number	
		1	2
B	V1.01.01	×	×
	V1.01.02		
	V1.01.00		
	V1.01.01		
	V1.02.00		
	V1.02.01		
	V1.03.00	○	
C	V1.02.01	○	×
	V1.03.00		○

×: Applicable, ○: Corrected

Remark 1. QB-RL78G13 (control code B) is supported with CubeSuite+ V1.00.01 or later

2. QB-RL78G13 (control code C) is supported with CubeSuite + E1.02.01 or later.

3.3 Details of restrictions

- No.1
【Description】 On Supplying the Negative Reference Voltage to the A/D Converter
 Do not supply the negative reference voltage through the AVREFM pin to the A/D converter. Otherwise, the problem described below arises.
 Problem:
 The AVREFM pin is pulled up to the potential of the AVREFP pin through a 600-ohm resistor.
 So, be sure to supply the negative reference voltage through the VSS pin.
- 【Workaround】** There is no workaround
【Implementation】 This issue has been corrected in products with control code C or later.
- No.2
【Description】 On Setting the I/O types of the P60/SCLA0 Pin
 When emulating the R5F100PL, R5F101PL, R5F100PK, or R5F101PK, do not set the I/O types of the P60/SCLA0 and P61/SCLA0 pins in the different ones each other.
 If the I/O types of both pins are different, the P60/SCLA0 pin functions incorrectly. So be sure to set the P60/SCLA0 pin, if used, in the same I/O type as the P61/SDAA0 pin.
 Incorrect example:
 When the P60/SCLA0 pin is used in the Input type, the P61/SDAA0 pin is set to the Output type.
- 【Workaround】** There is no workaround
【Implementation】 This issue has been corrected in CubeSuite+ V1.03.00 or later.

Chapter 4. Revision History

Document Number	Issued on	Description
R20UT2474EJ0100	February 4, 2013	Newly created.

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