QB-78K0KX2L (Control Code A, B, C, D)

Release Note

R20UT0865EJ0100
Rev. 1.00
October 14, 2011

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

Contents

Chapter 1. Product Version

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. On the back of IECUBE are labeled in Figure 1. The red frame control code in Figure 1. If the product has been upgraded, the control code can be checked by 'IECUBE Self Check Tool'. Please start 'IECUBE Self Check Tool' and press START button, and then IECUBE information is displayed (Figure 2).

To start 'IECUBE Self Check Tool' check following place.

[Start]→[programs]→[Renesas Electronics CubeSuite+]→[Emulator Utilities]→[78K0]→[IECUBE Self Check Tool]

Figure 1. Checking Control Code (Label on QB-78K0KX2L)

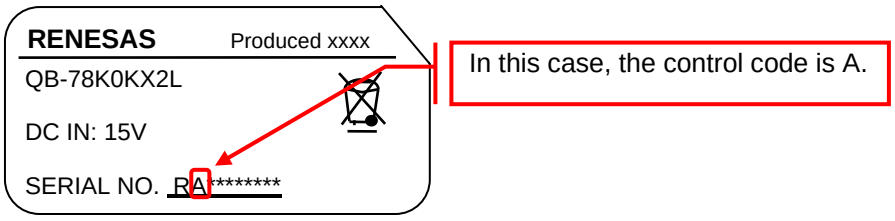
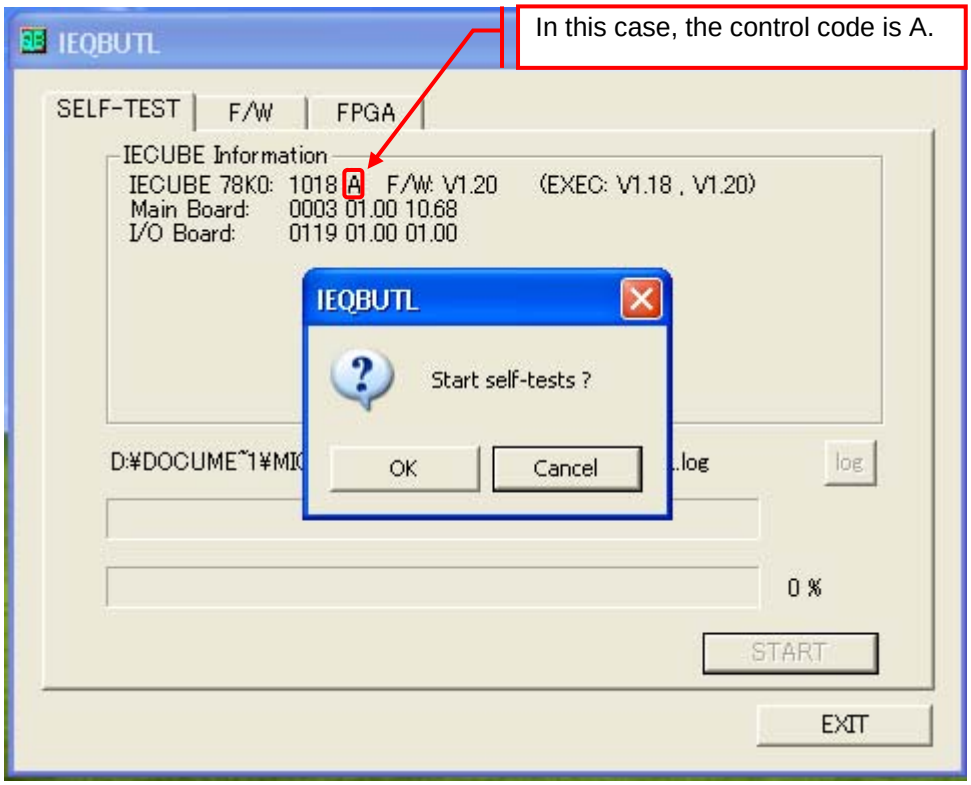


Figure 2. Checking Control Code for 'IECUBE Self Check Tool'



Chapter 2. Support Devices

Control Code	Supported Devices
A	78K0/KB2-L, 78K0/KC2-L(44pin, 48pin)
B	78K0/KY2-L, 78K0/KA2-L(20pin), 78K0/KB2-L, 78K0/KC2-L(44pin, 48pin)
C	78K0/KY2-L, 78K0/KA2-L(20pin, 25pin, 32pin), 78K0/KB2-L, 78K0/KC2-L(40pin, 44pin, 48pin)
D	78K0/KY2-L, 78K0/KA2-L(20pin, 25pin, 32pin), 78K0/KB2-L, 78K0/KC2-L(40pin, 44pin, 48pin)

Chapter 3. Changed Specifications

There was no change specification of control code D. Changed specifications applicable to the former control code are as follows.

3.1 List of changed specifications

No.	Changed or Added Specifications	Control Code			
		A	B	C	D
1	Emulation of 78K0/KY2-L and 78K0/KA2-L of 20pin	×	○	○	○
2	Emulation of 78K0/KA2-L of 25 pin, 32 pin and 78K0/KC2-L of 40 pin	×	×	○	○

×: No support, ○: Support

3.2 List of changed specifications

No. 1 Emulation of 78K0/KY2-L and 78K0/KA2-L of 20pin

Emulation of the 78K0/KY2-L and 78K0/KA2-L is now supported.

78K0/KY2-L and 78K0/KA2-L is supported with control code B or later.

No. 2 Emulation of 78K0/KA2-L of 25 pin, 32 pin and 78K0/KC2-L of 40 pin.

Emulation of the 78K0/KA2-L of 25 pin, 32 pin and 78K0/KA2-L of 40 pin is now supported.

78K0/KA2-L of 25 pin, 32 pin and 78K0/KA2-L of 40 pin is supported with control code C or later.

Chapter 4. Note

No. 1 Notice of a low power consumption mode

A low power consumption mode can not emulated in IECUBE.

Chapter 5. Restrictions

The item numbers are the same as those described in the previous edition (ZUD-CD-10-0233).

5.1 List of restrictions

No.	Restrictions	Control Code			
		A	B	C	D
1	Restriction on LVI default start setting	×	○	○	○
2	Restriction on emulation for 78K0/KA2-L of 25pin, 32pin	-	-	×	○

-: Not relevant ×: Change not implemented, ○: Change implemented

5.2 Details of Restriction

No. 1 Restriction on LVI default start setting

[Description] When the low-voltage detector (LVI) is set to start by default, the following difference occurs between the target device and IECUBE.

Device : A POC reset is released when the voltage reaches 1.91 V (TYP.).

IECUBE: A POC reset is released when the voltage reaches 1.6 V (TYP.).

[Work-around] There is no workaround.

[Correction] This restriction has been corrected in QB-78K0KX2L with control code B or later.

No. 2 Restriction on emulation for 78K0/KA2-L (25pin, 32pin)

[Description] When meeting all of following conditions P60 pin output same signal as SCK11pin.

-Target device: 78K0/KA2-L (25pin, 32pin)

-Use CSI11

-Set P60 pin as an output port

[Work-around] There is no workaround.

[Correction] This restriction has been corrected in products with control code D and later.

Chapter 6. Revision History

Document Number	Issued on	Description
ZUD-CD-08-0159	September 3, 2008	Newly created.
ZUD-CD-09-0050	March 16, 2009	Addition of items concerning control code B
ZUD-CD-10-0233	September 3, 2010	Addition of items concerning control code C
R20UT865EJ0100	October 14, 2011	Addition of Chapter 5 restriction No2 Addition of items concerning control code D

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