Microcontroller Technical Information

QB-78K0RIX3 (Old Name: QB-78K0RKX3L) In-Circuit Emulator for 78K0R/KC3-L, KD3-L, KE3-L, IB3, IC3, ID3, IE3 Upgrade	Document No.	ZBG-CD-10-0008		1/2
	Date issued	January 25, 2010		
	Issued by	Development Tool Solution Group Multipurpose Microcomputer Systems Division Microcomputer Operations Unit NEC Electronics Corporation		
Related documents QB-78K0RIX3 User's Manual: U19228EJ1V0UM00 QB-78K0RIX3 (Control Code: A, B, C, D, E) Operating Precautions: ZUD-CD-10-0015	Notification classification		Usage restriction	
		√	Upgrade	
			Document modification	
			Other notification	

1. Target product and version

Product	Outline	Control Code[Note]	Upgrade Method
QB-78K0RIX3 (Old name: QB-78K0RKX3L)	In-circuit emulator for 78K0R/KC3-L, 78K0R/KD3-L, 78K0R/KE3-L, 78K0R/IB3, 78K0R/IC3, 78K0R/ID3, 78K0R/IE3	A, B, C	Upgrade by sending the product to NEC Electronics
		D	Upgrade by the user or upgrade by sending the product to NEC Electronics

Note The control code is the second digit from the left in the 10-digit serial number. To see if the product has been upgraded, click the ID78K0R-QB **Help** menu, select **About**, and then check the control code. *X* in **IECUBE **** *X* F/W: V*.*** is the control code.

2. Upgrade details

Restriction No. 9, described in *QB-78K0RIX3 (Old Name: QB-78K0RKX3L) In-Circuit Emulator for 78K0R/KC3-L, KD3-L, KE3-L, IB3, IC3, ID3, IE3 Usage Restrictions* (ZBG-CD-10-0007), will be corrected. After upgrading, the control code will be E.

See the document for details.

3. Upgrade by sending the product to NEC Electronics

Two types of upgrade are available: upgrade by the user and upgrade by sending the product to NEC Electronics. Both methods are available, but we recommend that you upgrade the product, because upgrades by sending the product to NEC Electronics might require two weeks or longer.

3.1 Upgrade by a user (who uses a QB-78K0RIX3 with control code D)

The upgrade file can be downloaded from the website from January 25, 2010.

This schedule may change.

The latest version of the upgrade file (for firmware, FPGA data, etc.) is available on the Development Tools Download page on the NEC Electronics website.

Download the latest version and upgrade the product by referring to *How to Upgrade QB-78K0RIX3* (ZUD-CD-10-0014), which is included with the upgrade file.

URL: http://www.necel.com/micro/en/ods/ → Click **Version-up Service**.

      Category: Each Development Tool → IECUBE_Software

      Product Name: QB-78K0RIX3

      Version: Rev. E

3.2 Upgrade by sending the product to NEC Electronics

Upgrading by sending the product will be available from January 25, 2010.

This schedule may change. For details, contact an NEC Electronics sales representative or distributor.
The upgrade described herein will be provided for free for a period of one year from the above date.
After the free upgrade period expires, an upgrade will be available for a fee. We therefore recommend
that you take advantage of the free upgrade offer during the free upgrade period.

The product versions of NEC Electronics in-circuit emulators are indicated by a control code. The
control code is the second digit from the left in the 10-digit serial number. To see if the product has
been upgraded, click the ID78K0R-QB **Help** menu, select **About**, and then check the control code.
In Figure 2, **X** in **IECUBE **** X F/W: V*.**** is the control code.
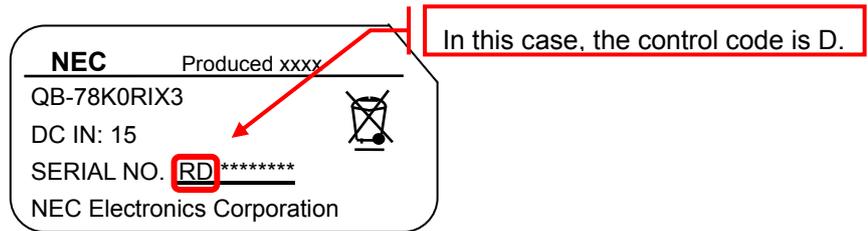
Figure 1. Checking the Control Code (Label on QB-78K0RIX3)

Figure 2. Checking the Control Code (ID78K0R-QB)