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Chapter 1. Overview

This document describes the method for user-implemented upgrading of the QB-78K0RFX3 to control code E.

Target product: QB-78K0RFX3 (control code: C, D)

Product	Control Code Before Upgrade	Upgrade Method	Control Code After Upgrade
QB-78K0RFX3	A, B	Upgrade by sending the product to Renesas Electronics	E
	C, D	Upgrade by user or sending the product to Renesas Electronics	

Refer to QB-78K0RFX3 (Control Code: A, B, C, D, E) Release note (R20UT2004E) for upgrade details.

Chapter 2. Upgrade Procedure

The following is the flow until completion of upgrade.

- (1) Preparation of upgrade file
Download and decompress the upgrade file.
- (2) Execution of upgrade
Upgrade IECUBE.
- (3) Confirmation of version after upgrade
Confirm that IECUBE has been upgraded normally.

2.1 Preparation of upgrade file

- (1) Download the upgrade file *qb-78k0rfx3_e_dl.exe* from the Development Tools Download page at the Renesas Electronics website.

URL: http://www.renesas.com/products/tools/emulation_debugging/incircuit_emulators/iecube/78k0r/downloads.jsp/

→ Click “Development Tools Download for Former NEC Electronics”.

Category: Each Development Tool → IECUBE_Software

Product Name: QB-78K0RFX3

Version: Rev. E

- (2) Double-click *qb-78k0rfx3_e_dl.exe*; the following files will then be decompressed.
 - qb-78k0rfx3_e_dl.exe: IECUBE upgrade tool
 - r20ut2005jj0100_qb78k0rfx3.pdf: How to Upgrade QB-78K0RFX3 (Japanese)
 - r20ut2005ej0100_qb78k0rfx3.pdf : How to Upgrade QB-78K0RFX3 (English) * This document
 - r20ut2004jj0100_qb78k0rfx3.pdf: Release note (Japanese)
 - r20ut2004ej0100_qb78k0rfx3.pdf: Release note (English)

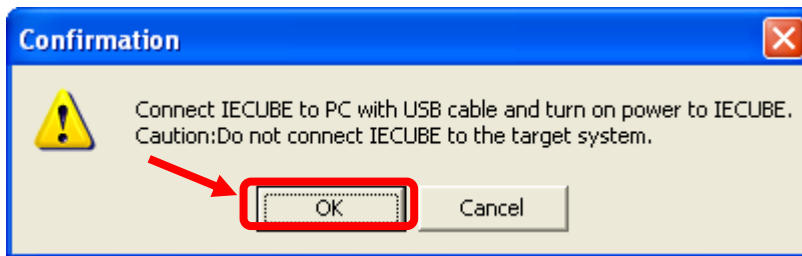
2.2 Preparation of upgrade file

- (1) Connect IECUBE to the host machine, using a USB interface cable.
- (2) Connect the AC adapter and turn on the power to IECUBE.

Caution

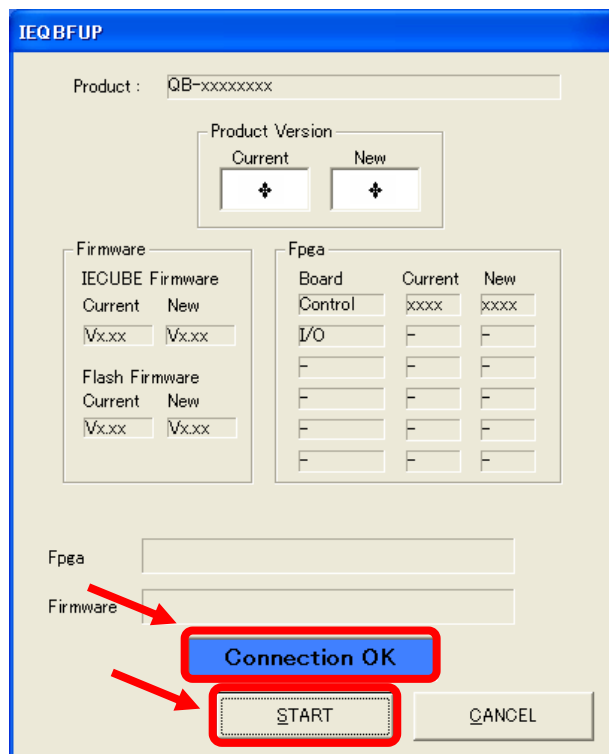
- The USB driver for IECUBE must be installed in the host machine. The USB driver for IECUBE is included with the installer of the debugger.
- Do not connect IECUBE to the target system at this time. If connected, disconnect it from the target system before power-on.

- (3) Start *qb-78k0rfx3_e_dl.exe* that has been decompressed in 2.1 Preparation of upgrade file; the following window will then appear, so click the OK button.

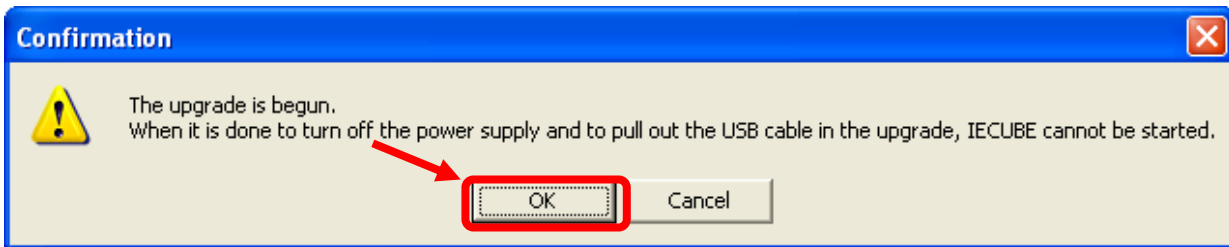


- (4) The following window will appear. Confirm that the message "Connection OK" is displayed and then click the START button.

Caution The following screen is an example. The display may be different depending on the IECUBE used.



(5) The following message will be displayed. Click the OK button.

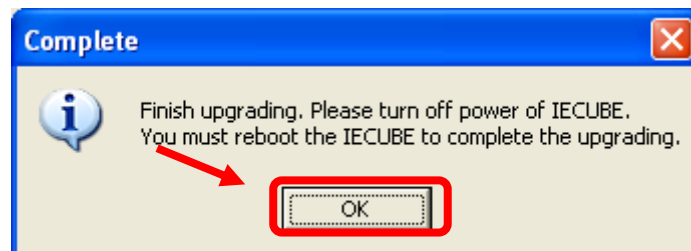


Caution Since initial processing takes some time, the progress bar may seem to be stopped. Do not turn off the power to IECUBE nor disconnect the USB interface cable during upgrading. The time required for downloading varies depending on the host interface, as shown below.

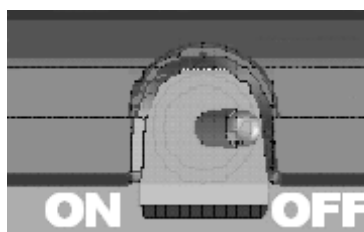
Host Interface	Time Required for Downloading
USB 2.0	Approximately 6 minutes
USB 1.1	Approximately 8 minutes

If an abnormal state occurs, such as no response getting sent from IEQBFUP for more than 20 minutes, forcibly terminate IEQBFUP, turn off the power to IECUBE, and then start from step (1) again. If it does not resolve the problem, consult a distributor or an Renesas Electronics Sales Corporation sales representative.

(6) The following message will be displayed when upgrading is complete. Click the OK button.



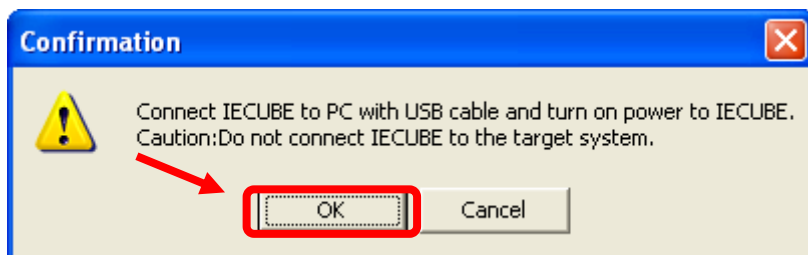
(7) Turn off the power to IECUBE.



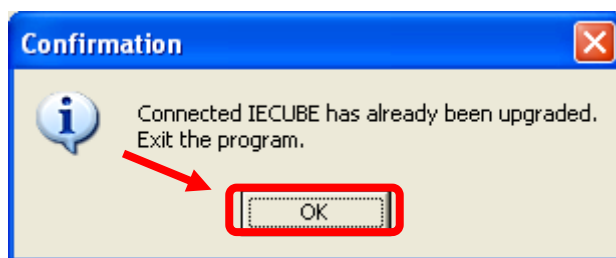
Caution Be sure to turn off the power to IECUBE after upgrading is complete, then proceed to **2.3 Confirmation of version after upgrade.**

2.3 Confirm of version after upgrade

- (1) Connect IECUBE to the host machine, using a USB interface cable.
- (2) Connect the AC adapter and turn on the power to IECUBE.
- (3) Start *qb-78k0rfx3_e_dl.exe* that has been decompressed in **2.1 Preparation of upgrade file**; the following window will then appear, so click the OK button.



- (4) The following window will appear. Click the OK button.



- (5) Turn off the power to IECUBE.

Upgrade is thus completed.

Chapter 3. Message

If an error message is displayed, take an appropriate measure according to the method described in the message. If it does not resolve the problem, consult a distributor or a Renesas Electronics Sales Corporation sales representative.

Chapter 4. Revision History

Document Number	Issued on	Description
R20UT2005EJ0100	April 2, 2012	Newly created.

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