# Microcontroller Technical Information

| | | Document No. | ZBG-CD-08-0016 | 1/2 |
|---|---|---|---|---|
| PG-FP4<br>Flash Memory Programmer<br><br>Upgrade | | Date issued | April 14, 2008 | |
| | | Issued by | Development Tool Solution Group | |
| | | | Multipurpose Microcomputer Systems Division | |
| | | | Microcomputer Operations Unit | |
| | | | NEC Electronics Corporation | |
| Related<br>documents | PG-FP4 Flash Memory Programmer<br>User's Manual: U15260EJ4V0UM00<br>PG-FP4 (Control Code: B, C, E, F, G,<br>H) Operating Precautions:<br>ZUD-CD-08-0053 | Notification<br>classification | | Usage restriction |
| | | | √ | Upgrade |
| | | | | Document modification |
| | | | | Other notification |

## 1. Target product and version

| Product | Outline | Control Code<sup>Note</sup> |
|---|---|---|
| PG-FP4 | Flash memory programmer | B, C, E, F, G, H (firmware: V1.38 or earlier, Programming GUI: V2.19 or earlier) |

It is not necessary to upgrade control code H (firmware V1.39 and Programming GUI V2.20).

<Version confirmation>

- Firmware version: Displayed by selecting [Reset] from the [Programmer] menu
- Programming GUI version: Displayed by selecting [About] from the [Help] menu

## 2. Upgrade details

- Addition of specification of UART communication at 500 kbps (addition/change to specifications No. 44)

For details, refer to *PG-FP4 (Control Code: B, C, E, F, G, H) Operating Precautions* (ZUD-CD-08-0053).

After upgrading, the control code will be H (firmware V1.39 and Programming GUI V2.20.

See the document for details.

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**Note** The "control code" is the second digit from the left in the 10-digit serial number.

If the product has been upgraded, a label indicating the new version is attached to product and the x in V-UP LEVEL x on this label indicates the control code.

3. Upgrade start date

<Control code B, C>

**Upgrading by sending the product will be available from April 25, 2008.**

Upgrading by sending the product is required since the hardware must be upgraded.

The upgrade described herein will be provided for free for a period of one year from the date that the upgrade is started.  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.

NEC Electronics will send a CD-ROM that includes the Programming GUI for this upgrade.

<Control code E, F, G, H>

**The upgrade file can be downloaded from the website from April 25, 2008.**  This schedule may be shifted somewhat.

The latest firmware and Programming GUI are available on the NEC Electronics website (Development Tools Download page).  Download the software from this page and upgrade the software by referencing the section **3.2 Firmware and GUI Software Upgrade Installation** in the user's manual.

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

Upgrading by sending the product is also possible for the firmware upgrade.  See <Control code B, C> for details.

4. IIC/78K0S/KX1+ adapter

The IIC/78K0S/KX1+ adapter, which has been included with the PG-FP4 since November 2004, is now provided for a fee, as described in No. 30 of Additions and Changes to Specifications in *PG-FP4 (Control Code: B, C, E, F, G, H) Operating Precautions* (ZUD-CD-08-0053).

**Orders for this charged upgrade have been accepted since December 22, 2004.**

For how to obtain the IIC/78K0S/KX1+ adapter, contact an NEC Electronics sales representative or a distributor from which you have purchased the PG-FP4.