Renesas standalone flash programming tool

PG-FP6

Standalone flash programmer best suitable for mass production and field programming

The Flash Memory Programmer PG-FP6 is a tool that can be used in a user system to write a program to flash memory in a Renesas microcomputer, verify the written program, and erase the written program. This is a standalone tool allowing high-speed writing.

The PG-FP6 tool also includes FP6 Terminal, a programming GUI that allows you to control this tool from a PC.

Main features

- **High-speed programming** of MCUs by the PG-FP6 for reduced production times
- **Control panel suitable for stand-alone operation**
- **Simple and user-friendly GUI, FP6 Terminal**
- **Support for high-volume programming by gang programming** with the use of multiple PG-FP6s
- **Security Enhancement** against theft of program files and the PG-FP6 main unit
- **Security slot for theft prevention**
- **Support for high-volume programming by gang programming with the use of multiple PG-FP6s**
- **Bundled control of multiple PG-FP6s**
- **Programming GUI “FP6 Gang Programmer”**

Control panel suitable for stand-alone operation

User-friendly GUI (FP6 Terminal)

**Control panel suitable for stand-alone operation**

**User-friendly GUI (FP6 Terminal)**

Support for high-volume programming by gang programming with the use of multiple PG-FP6s

*1 The VCC LED is lit when the target power supply is turned on.
Security Enhancement against theft of program files and the PG-FP6 main unit

Security for the program files and theft of the PG-FP6 unit itself is strengthened with the following functions: encrypting of program files, saving of encrypted data to the PG-FP6 unit, and writing of a program while simultaneously decrypting it.

*The program file encryption function can be run by using the encryption utility program (RPE.exe) from the command line. The file is among those installed by the FP6 Terminal installer.

Rich programming methods usable according to the purpose

You can choose the programming method according to the purpose. For example, you can start programming manually with a button press or automatically. The PG-FP6 can be powered via USB port for field programming.

Stand-alone (off-line) programming

Production line programming

PC programming

Field programming

USB Powerbank

Programming using the buttons

Programming by FP6 Terminal

Specifications

<table>
<thead>
<tr>
<th>Product package contents</th>
<th>PG-FP6, GND cable, USB cable, Target cable, Power supply adapter*</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions</td>
<td>140 × 90 × 30 mm (protruding parts excluded)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approximately 245 g</td>
</tr>
<tr>
<td>Host PC interface</td>
<td>Target host PC: Refer to section 1.5, Operating Environments, USB connector: USB 2.0 (mini-B type) Serial port: 9-pin D-Sub male port for RS-232C</td>
</tr>
<tr>
<td>Target interface</td>
<td>15-pin D-Sub female target connector Power supply: 1.8 V to 5.5 V, 500 mA max.</td>
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<tr>
<td>Remote interface</td>
<td>15-pin D-Sub female remote connector Interface level: 3.3 V</td>
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<td>Operating power supply</td>
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<tr>
<td>Target cable</td>
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<td>GND cable</td>
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*The power adapter that comes with the PG-FP6 varies with the region where it is to be used.

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FAQ en-support.renesas.com/knowledgeBase

Community community.renesas.com

Video
Tutorials videos for microcontrollers are available:
For RA Family www.renesas.com/ra-how-to-video
For RL78 Family www.renesas.com/rl78-how-to-video
For RX Family www.renesas.com/rx-how-to-video

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