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## Parameter Files for Flash Memory Programmer PG-FP5 Released

We have revised and newly published parameter files for the flash memory programmer PG-FP5.

These files save information about the MCUs they support in the text format, and the PG-FP5 uses this information to program the flash memories of those MCUs.

For an overview of the PG-FP5, go to:

[https://www.renesas.com/pg\\_fp5](https://www.renesas.com/pg_fp5)

The above URL is one of our global sites.

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### 1. Released Parameter Files and Their Versions

#### 1.1 Newly Published Parameter Files

- (1) For RL78 family
  - PR5-R5F10R V1.00 (for RL78/L12 group)
- (2) For R8C family
  - PR5-R8C5X V1.00 (for R8C/5x series)

#### 1.2 Revised Parameter Files

- (1) For RL78 family
  - PR5-R5F104 V1.03 (for RL78/G14 group)
- (2) For 78K family
  - PR5-78F1845 V1.02 (for 78K0R/Fx3)  
NOTE: Only the release note included in PR5-78F1845 has been updated.  
The parameter file itself is same as one in V1.01.
    - PR5-78F8058 V1.02 (for UPD78F8058)
- (3) For R8C family
  - PR5-R8C3X V1.01 (for R8C/3x series)

- PR5-R8CLX V1.01 (for R8C/Lx series)

(4) For V850 family

- PR5-70F3786 V1.01 (for V850ES/Jx3-E)
- PR5-70F3738 V1.03 (for V850ES/Jx3-L)
- PR5-70F4012 V1.03 (for V850E2/Fx4)

## **2. Device Support Updated**

In the UPD70F3735, UPD70F3736, UPD70F3737, and UPD70F3738 MCUs, which belong to the V850ES/Jx3-L, an improvement has already been made so that their flash memories can be programmed when used in a main-clock frequency range (an fx range) of 5 to 10 MHz. According to this, the following parameter file has been modified to support the updated version of these MCUs:

- PR5-70F3738 V1.03 (for V850ES/Jx3-L)

## **3. Device Support**

### **3.1 Support by Newly Published Parameter Files**

The newly published parameter files and the MCUs supported by them are as follows:

(1) In RL78 family

PR5-R5F10R V1.00 (for RL78/L12 group) :  
R5F10RLC

(2) In R8C family

PR5-R8C5X V1.00 (for R8C/5x series):

R5F21546E, R5F21547E, R5F21548E, R5F2154AE, R5F2154CE, R5F21546F, R5F21547F, R5F21548F, R5F2154AF, R5F2154CF, R5F21546G, R5F21547G, R5F21548G, R5F2154AG, R5F2154CG, R5F21546H, R5F21547H, R5F21548H, R5F2154AH, R5F2154CH, R5F21566E, R5F21567E, R5F21568E, R5F2156AE, R5F2156CE, R5F21566F, R5F21567F, R5F21568F, R5F2156AF, R5F2156CF, R5F21566G, R5F21567G, R5F21568G, R5F2156AG, R5F2156CG, R5F21566H, R5F21567H, R5F21568H, R5F2156AH, and R5F2156CH

### **3.2 Support by Revised Parameter Files**

The revised parameter files and the MCUs supported by them are as follows:

(1) In RL78 family

PR5-R5F104 V1.03 (for RL78/G14 group):

R5F104AG, R5F104BG, R5F104CG, R5F104EH, R5F104FJ, R5F104GJ, R5F104JJ, and R5F104LJ

(2) In 78K family

PR5-78F1845 V1.02 (for 78K0R/Fx3):

UPD78F1804A, UPD78F1805A, UPD78F1806A, UPD78F1807A, UPD78F1808A, UPD78F1809A, UPD78F1810A, UPD78F1811A, UPD78F1812A, UPD78F1813A, UPD78F1814A, UPD78F1815A, UPD78F1816A, UPD78F1817A, UPD78F1826A, UPD78F1827A, UPD78F1828A, UPD78F1829A, UPD78F1830A, UPD78F1818A, UPD78F1819A, UPD78F1820A, UPD78F1821A, UPD78F1822A, UPD78F1831A, UPD78F1832A, UPD78F1833A, UPD78F1834A, UPD78F1835A, UPD78F1823A, UPD78F1824A, UPD78F1825A, UPD78F1836A, UPD78F1837A, UPD78F1838A, UPD78F1839A, UPD78F1840A, UPD78F1841A, UPD78F1842A, UPD78F1843A, UPD78F1844A, and UPD78F1845A

UPD78F1844A, and UPD78F1845A

NOTE: Only the release note for the above MCUs has been updated.

So the parameter file included in PR5-78F1845 V1.01 can be also used for the MCUs.

PR5-78F8058 V1.02 (for UPD78F8058):

UPD78F8056A, UPD78F8057A, and UPD78F8058A

(3) In R8C family

PR5-R8C3X V1.01 (for R8C/3x series):

R5F21321C, R5F21322C, R5F21324C, R5F21324G, R5F21326G, R5F21324H, R5F21326H, R5F21321M, R5F21322M, R5F21324M, R5F21331C, R5F21332C, R5F21334C, R5F21335C, R5F21336C, R5F21334G, R5F21336G, R5F21334H, R5F21336H, R5F21331M, R5F21332M, R5F21334M, R5F21335M, R5F21336M, R5F21334T, R5F21335T, R5F21336T, R5F21344C, R5F21345C, R5F21346C, R5F21348K, R5F2134CK, R5F21344M, R5F21345M, R5F21346M, R5F21344P, R5F21346P, R5F21344R, R5F21346R, R5F21346U, R5F21348U, R5F21354C, R5F21355C, R5F21356C, R5F21357C, R5F21358C, R5F2135AC, R5F2135CC, R5F21354M, R5F21355M, R5F21356M, R5F21357M, R5F21358M, R5F2135AM, R5F2135CM, R5F21364C, R5F21365C, R5F21366C, R5F21367C, R5F21368C, R5F2136AC, R5F2136CC, R5F21364M, R5F21365M, R5F21366M, R5F21367M, R5F21368M, R5F2136AM, R5F2136CM, R5F21386C, R5F21387C, R5F21388C, R5F2138AC, R5F2138CC, R5F21386M, R5F21387M, R5F21388M, R5F2138AM, R5F2138CM, R5F213G1C, R5F213G2C, R5F213G4C, R5F213G5C, R5F213G6C, R5F213G2M, R5F213G4M, R5F213G5M, R5F213G6M, R5F213J2C, R5F213J4C, R5F213J5C, R5F213J6C, R5F213J2M, R5F213J4M, R5F213J5M, R5F213J6M, R5F213J4T, R5F213J5T, R5F213J6T, R5F213M8K, R5F213MCK, R5F213M6Q, R5F213M7Q, R5F213M8Q, R5F213MAQ, R5F213MCQ, R5F213M6U, R5F213M8U, R5F213N7T, R5F213N8T, R5F213NAT, and R5F213NCT

PR5-R8CLX V1.01 (for R8C/Lx series):

R5F2LA32A, R5F2LA34A, R5F2LA36A, R5F2LA38A, R5F2LA52A, R5F2LA54A,

R5F2LA56A, R5F2LA58A, R5F2LAP6S, R5F2LAP7S, R5F2LAP8S, R5F2LAPAS,  
and R5F2LAPCS

(4) In V850 family

PR5-70F3786 V1.01 (for V850ES/Jx3-E):

UPD70F3826, UPD70F3827, UPD70F3828, UPD70F3829, UPD70F3834,  
UPD70F3835, UPD70F3836, and UPD70F3837

PR5-70F4012 V1.03 (for V850E2/Fx4):

UPD70F3549

#### **4. Obtaining Released Products**

To obtain any of the released files, download them from the Web site at:

[https://www.renesas.com/pg\\_fp5\\_download](https://www.renesas.com/pg_fp5_download)

The released files will be published on this site from March 29 on. For details of installation of the downloaded files, see Section 3, in the PG-FP5 user's manual.

#### **5. Necessary Firmware, FPGA Data, and Programming GUI**

As to the firmware, FPGA data, and programming GUI necessary to use the above parameter files, see the supplemental document in PDF included with each parameter file.

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