

[Released on the Web]

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Rev.1.00

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# Renesas Flash Driver RL78 Type 02 for RL78/F23 and RL78/F24 SC Version Application Notes V1.00

## Outline

Renesas Flash Driver RL78 Type 02 for RL78/F23 and RL78/F24 Smart Configurator Version V1.00 has been released on the web.

This product is available free of charge.

## 1. Product Features

Renesas Flash Driver RL78 Type 02 (hereinafter called "RFD RL78 Type 02") Smart Configurator Version (hereinafter called "SC Version") for RL78/F23 and RL78/F24, it is the SC Version of already released RFD RL78 Type 02.

RFD RL78 Type 02 SC Version is the software for reprogramming the flash memory in RL78/F23 and RL78/F24. The API functions of RFD RL78 Type 02 are called from user program and reprogram the code flash memory, data flash memory or extra area. The application note of RFD RL78 Type 02 SC Version is divided in each area reprogrammed. Be sure to download and use application reprograms and "Flash Common" containing common API.

<Example> The case where the code flash memory area is programmed.

It is necessary to download both RFD RL78 Type 02 SC Version (Code Flash) and RFD RL78 Type 02 SC Version (Flash Common).

## 2. Supported Devices

RL78/F23

RL78/F24

RFD RL78 Type 02 SC Version cannot be used in RL78 Family devices other than RL78/F23 and RL78/F24.

## 3. Operating Environment

The operating environment is as follows.

**Table 1 Operating Environment for the RFD RL78 Type 02 SC Version**

Package	Manufacturer	Version
CC-RL(for CS+, or e <sup>2</sup> studio)	Renesas Electronics	V1.11 or later
IAR Embedded Workbench	IAR Systems	V4.21 or later

Note. Integrated development environment and compiler must support the target device.

## 4. Application Notes

The Application Notes of RFD RL78 Type 02 SC Version is enclosed to each area for programming of RFD RL78 Type 02 SC Version package. To use only the Application Notes, download them from "Documentation" in the URL below. (Scheduled to be released on February 20.)

[https://www.renesas.com/flash\\_libraries/self\\_prg](https://www.renesas.com/flash_libraries/self_prg)

[https://www.renesas.com/flash\\_libraries/data\\_flash](https://www.renesas.com/flash_libraries/data_flash)

- RL78 Family Renesas Flash Driver RL78 Type 02 SC Version (Code Flash)  
Application Notes [R20AN0684]
- RL78 Family Renesas Flash Driver RL78 Type 02 SC Version (Data Flash)  
Application Notes [R20AN0685]
- RL78 Family Renesas Flash Driver RL78 Type 02 SC Version (Extra Area)  
Application Notes [R20AN0686]
- RL78 Family Renesas Flash Driver RL78 Type 02 SC Version (Flash Common)  
Application Notes [R20AN0687]

For the detail specification of "RFD RL78 Type 02", download RFD RL78 Type 02 User's Manual.

- Renesas Flash Driver RL78 Type 02 User's Manual [R20UT5009]

## 5. Obtaining the Product

It is possible to choose and download "RL78/F23" or "RL78/F24" by smart configurator. Alternatively, each package (zip file) can be download from the URL of "Code Flash Libraries (Flash Self Programming Libraries)" or "Data Flash Libraries" below. (Scheduled to be released on February 20).

Please unzip the downloaded package (zip file) before using.

[https://www.renesas.com/flash\\_libraries/self\\_prg](https://www.renesas.com/flash_libraries/self_prg)

[https://www.renesas.com/flash\\_libraries/data\\_flash](https://www.renesas.com/flash_libraries/data_flash)

- RL78 Family Renesas Flash Driver RL78 Type 02 SC Version (Code Flash) V1.00  
The name of SC display: Flash Driver[Renesas Flash Driver RL78 Type02 Code Flash]  
Zip file name: r20an0684xx0100-RL78-code\_flash.zip
- RL78 Family Renesas Flash Driver RL78 Type 02 SC Version (Data Flash) V1.00  
The name of SC display: Flash Driver[Renesas Flash Driver RL78 Type02 Data Flash]  
Zip file name: r20an0685xx0100-RL78-data\_flash.zip
- RL78 Family Renesas Flash Driver RL78 Type 02 SC Version (Extra Area) V1.00  
The name of SC display: Flash Driver[Renesas Flash Driver RL78 Type02 Extra Area]  
Zip file name: r20an0686xx0100-RL78-extra\_area.zip
- RL78 Family Renesas Flash Driver RL78 Type 02 SC Version (Flash Common) V1.00  
The name of SC display: Flash Driver[Renesas Flash Driver RL78 Type02 Flash Common]  
Zip file name: r20an0687xx0100-RL78-flash\_common.zip

## Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Feb.16.23	-	First edition issued

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