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# [Upgrade to version] RX Family RX DSP Library Version 5.0

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R20TS0404EJ0100  
Rev.1.00  
Feb. 16, 2019

## Outline

We have upgraded the RX family DSP Library to Version 5.0.

Version 5.0 has integrated the DSP libraries (Version 3.0: for RXv1 CPU and Version 4.1: for RXv2 CPU) which had been provided separately for each CPU, and has added the DSP Library for RXv3 CPU.

This product is available free of charge.

For details of the product, see the following URL.

<https://www.renesas.com/mw/dsp>

## 1. Products and Versions to be Upgraded

- Version 3.0
  - RX DSP Library Version 3.0 (CCR<sub>X</sub>) for High-performance Embedded Workshop
    - Revision: Rev.1.00
    - Document Number: R01AN1800ES0100
  - RX DSP Library Version 3.0 (CCR<sub>X</sub>) for e<sup>2</sup> studio
    - Revision: Rev.1.00
    - Document Number: R01AN1801ES0100
- Version 4.1
  - RX DSP Library Version 4.1 (CCR<sub>X</sub>)
    - Revision: Rev.1.20
    - Document Number: R01AN2096EJ0120

## 2. Main Features of Upgrade

The main features of the upgrade are described in the following sections. For details, see the release note included in the package.

### 2.1 New Features

- DSP library files and a sample project for RXv3 CPU have been newly developed.
- RXv1, RXv2 and RXv3 CPUs are supported in Version 5.0. DSP libraries, which had previously been provided separately for each CPU as Version 3.0 and 4.1, are now provided collectively.
- User's Manual has been made common for RXv1, RXv2 and RXv3 CPUs.
- The application notes are included as "RX DSP Library Version 5.0 Additional Information" which describe information such as ROM, stack usage, and execution cycles. The package contains three application notes for each CPU.

### 2.2 Supported MCUs

RX family

### 3. How to Obtain the Product

Download the product from the following URL. (Scheduled to be released on February 20, 2019.)

<https://www.renesas.com/search/keyword-search.html#q=r01an4359>

RX DSP Library Version 5.0

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Feb. 16, 2019	-	First edition issued

TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061 Japan  
 Renesas Electronics Corporation

■Inquiry

<https://www.renesas.com/contact/>

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