

[Notification]

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Rev.1.00

Renesas on-chip debugging emulators and flash programmers that support the RA4M3 group

Dec. 09, 2020

Overview

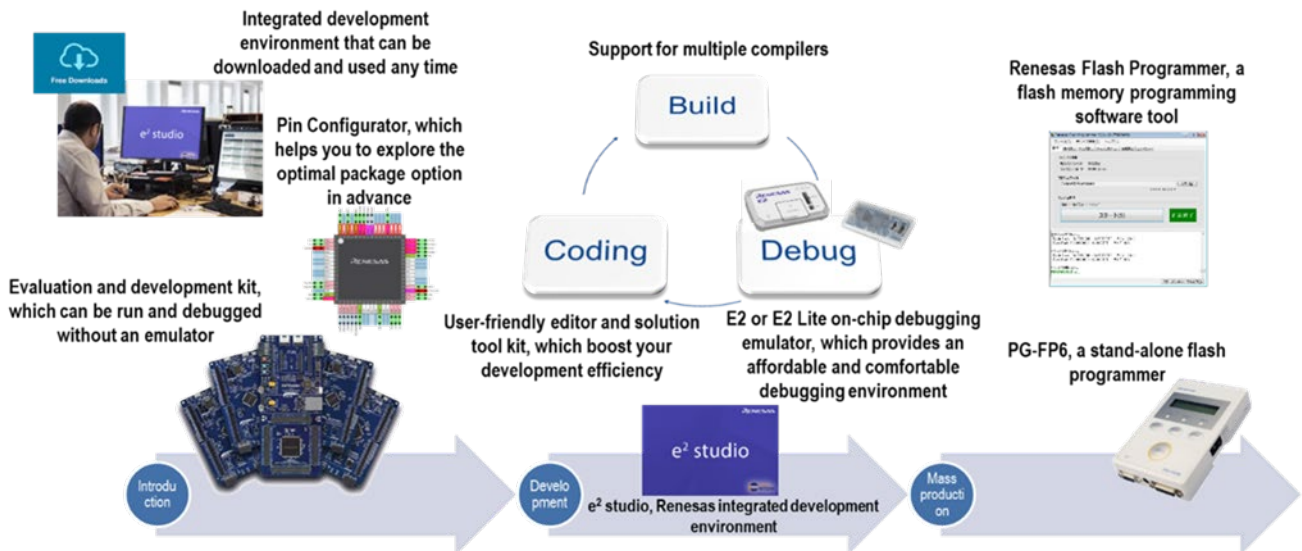
We provide a development environment that provides total support (from introduction to mass production) for the new RA4M3 group of the RA family, which is a group of MCUs that feature an Arm® Cortex®-M33 Core and TrustZone®.

We proudly announce that the RA4M3 group is now supported by our on-chip debugging emulators and flash programmers. These tools support secure application debugging and programming using TrustZone®.

1. Development Environment that Provides Total Support, from Introduction to Mass Production

We provide a development environment that supports all the steps from introduction to development and mass production of applications based on the RA4M3 group of MCUs.

CONSISTENT SUPPORT FROM INTRODUCTION TO MASS PRODUCTION



## 2. Renesas on-chip debugging emulators and flash programmers that support the RA4M3 group

The following table shows a list of products that support the RA4M3 group of the RA family. For details on each product, refer to the corresponding URL.

On-chip debugging emulator	E2 Emulator	<a href="https://www.renesas.com/e2">https://www.renesas.com/e2</a>
	E2 Emulator Lite	<a href="https://www.renesas.com/e2_lite">https://www.renesas.com/e2_lite</a>
Flash programmer	Renesas Flash Programmer, a software tool for programing flash memory	<a href="https://www.renesas.com/rfp">https://www.renesas.com/rfp</a>
	PG-FP6, a flash memory programmer	<a href="https://www.renesas.com/pg-fp6">https://www.renesas.com/pg-fp6</a>

The on-chip debugging emulators and flash programmers listed above support the following part names in the RA4M3 group.

Group	Part name
RA4M3	R7FA4M3AF3CFB, R7FA4M3AF3CFP, R7FA4M3AF3CFM, R7FA4M3AE3CFB R7FA4M3AE3CFP, R7FA4M3AE3CFM, R7FA4M3AD3CFB

## 3. How to Update Your Copy

### 3.1 E2 Emulator and E2 Emulator Lite

FSP v2.2.0 can be downloaded from the web page at the following URL:

<https://github.com/renesas/fsp/releases>

### 3.2 Renesas Flash Programmer

Support for the RA4M3 group was added in V3.08.00.

Online updating of the Renesas Flash Programmer is possible.

In addition, the evaluation edition allows for evaluation of product performance and functionality prior to purchasing. Download the installer for the product from the following URL:

<https://www.renesas.com/software-tool/renesas-flash-programmer-programming-gui#documents>

### 3.3 Programming GUI "FP6 Terminal" for the PG-FP6 Flash Memory Programmer PG-FP6

Support for the RA4M3 group was added in V1.05.00. It can be downloaded from the following URL:

<https://www.renesas.com/software-tool/pg-fp6#documents>

## 4. How to Purchase the New Software

For product ordering, contact your local Renesas Electronics marketing office or distributor with the following information.

For product pricing, make inquiries in the same manner.

4.1 E2 Emulator and E2 Emulator Lite

Product name	Orderable part name
E2 emulator <sup>(Note 1)</sup>	RTE0T00020KCE00000R
E2 Emulator Lite <sup>(Note 2)</sup>	RTE0T0002LKCE00000R

Note 1: Includes a user-interface cable for E2 emulator (20-20 pin).

Note 2: Requires a user-interface cable (20-20 or 20-10 pin), sold separately.  
For details about the user-interface cable, see its user's manual as below.

<https://www.renesas.com/document/man/rte0t00020kcac0000j-users-manual>

RTE0T00020KCAC0000J

User-interface cable for E2 emulator (20-20 pin)

<https://www.renesas.com/document/man/rte0t00020kcac1000j-users-manual>

RTE0T00020KCAC1000J

User-interface cable for E2 emulator (20-10 pin)

It can also be purchased online. See below for details.

Product name	Company name
	URL
E2 Emulator	Digi-Key Corporation <a href="https://www.digikey.com/product-detail/en/renesas-electronics-america/RTE0T00020KCE00000R/RTE0T00020KCE00000R-ND/9384711?_ga=2.64791404.252821098.1601539625-1132870633.1591680824">https://www.digikey.com/product-detail/en/renesas-electronics-america/RTE0T00020KCE00000R/RTE0T00020KCE00000R-ND/9384711?_ga=2.64791404.252821098.1601539625-1132870633.1591680824</a>
	RS Components <a href="https://americas.rsdelivers.com/product/renesas-electronics/rte0t0002lkce00000r/renesas-electronics-e2-emulator-lite-debugger/9031450?cm_mmc=aff2-_-us-_-octopart-_-9031450">https://americas.rsdelivers.com/product/renesas-electronics/rte0t0002lkce00000r/renesas-electronics-e2-emulator-lite-debugger/9031450?cm_mmc=aff2-_-us-_-octopart-_-9031450</a>
E2 Emulator Lite	Mouser <a href="https://www.mouser.com/ProductDetail/Renesas-Electronics/RTE0T0002LKCE00000R?qs=%2Fha2pyFadujNdydm0BNpi9TYEkmTm6z2wmskq2mMpwQS1eRw0MLuMI43%252B38HMT%252B5&amp;utm_source=octopart&amp;utm_medium=aggregator&amp;utm_campaign=968-0T0002LKCE00000R&amp;utm_content=Renesas+Electronics">https://www.mouser.com/ProductDetail/Renesas-Electronics/RTE0T0002LKCE00000R?qs=%2Fha2pyFadujNdydm0BNpi9TYEkmTm6z2wmskq2mMpwQS1eRw0MLuMI43%252B38HMT%252B5&amp;utm_source=octopart&amp;utm_medium=aggregator&amp;utm_campaign=968-0T0002LKCE00000R&amp;utm_content=Renesas+Electronics</a>

4.2 Renesas Flash Programmer

Product name: Renesas Flash Programmer V3	
Number of licenses	Orderable part name
1	RTCZZZZZZFD0AWRJ
5	RTCZZZZZZFD0AWRJ#L5
10	RTCZZZZZZFD0AWRJ#LA
20	RTCZZZZZZFD0AWRJ#LT

Remarks: The license is a shrink-wrap contract, and one license is for use on one PC.

4.3 PG-FP6

Product name: PG-FP6	
Destination region	Orderable part name
Japan	RTE0T00001FWRJP000R
Europe and U.S.A.	RTE0T00001FWREA000R
China, Hong Kong, Taiwan, South Korea, and Singapore	RTE0T00001FWRAS000R

It can also be purchased online. See below for details.

Future electronics

[https://www.futureelectronics.com/p/9101813?utm\\_source=octopart.com&utm\\_medium=cpcbuynow&utm\\_content=instock&utm\\_campaign=Octopart Ext Referrals](https://www.futureelectronics.com/p/9101813?utm_source=octopart.com&utm_medium=cpcbuynow&utm_content=instock&utm_campaign=Octopart%20Ext%20Referrals)

Verical

[https://www.verical.com/pd/renesas-technology-in-circuit-programmer-emulator-debugger-RTE0T00001FWREA000R-5910004?utm\\_campaign=octopart\\_2020&utm\\_currency=JPY&utm\\_keyword=RTE0T00001FWREA000R&utm\\_medium=aggregator&utm\\_content=inv\\_listing&utm\\_source=octopart](https://www.verical.com/pd/renesas-technology-in-circuit-programmer-emulator-debugger-RTE0T00001FWREA000R-5910004?utm_campaign=octopart_2020&utm_currency=JPY&utm_keyword=RTE0T00001FWREA000R&utm_medium=aggregator&utm_content=inv_listing&utm_source=octopart)

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Dec.09.20	-	First edition issued

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