

[Notes]

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# Renesas Emulator and Flash Memory Programmer Products with a USB Interface

## Notice Regarding Changes to Windows Driver Policy

### Outline

This notice provides important information regarding the use of Renesas emulator and flash memory programmer products with a USB interface, as outlined below.

1. Products Not Affected by the Windows Driver Policy Change
2. Impact and Recommended Actions for the E2 Emulator, E2 Emulator Lite, and IE850A
3. Impact on Other Emulator and Flash Memory Programmer Products

### 1. Products Not Affected by the Windows Driver Policy Change

#### 1.1 Applicable Products

PG-FP6

#### 1.2 Details

The applicable product is not affected by the Windows driver policy change and may continue to be used without any modification.

### 2. Impact and Recommended Actions for the E2 Emulator, E2 Emulator Lite, and IE850A

#### 2.1 Applicable Products

E2 Emulator, E2 Emulator Lite, IE850A

#### 2.2 Applicable Devices

RA Family, RX Family, RL78 Family, RH850 Family, R-Car Family, RISC-V MCU (R9A02G021)

#### 2.3 Details

Due to the Windows driver policy change introduced in April 2026, the USB driver for Renesas emulator products may fail to load properly on the host PC, preventing the emulator from operating.

When this issue occurs, opening the properties of the applicable product in Device Manager will display the device status as Code 39, along with the message: "This file has been blocked by your application control policy."

#### 2.4 Conditions

This issue occurs on host PCs running the following OS versions when the cumulative update for Windows 11 (KB5083769) or any subsequent cumulative update has been applied and certain conditions\* are met.

- Windows 11 24H2
- Windows 11 25H2
- Windows 11 26H1 or later (the applicable policy is enabled by default)

\* For details, please refer to "[The Windows Driver Policy | Microsoft Support](#)"

## 2.5 Recommended Actions

Update the USB driver using the installer provided with this notice.

The installer is also included with the installers for the following development tools:

- e<sup>2</sup> studio 2026-07 or later
- CS+ for CC V8.16.00 or later
- CS+ for CA, CX V4.10.00 or later
- Renesas Flash Programmer V3.24.00 or later

### 2.5.1 Notes

After updating the USB driver, please use the development tool versions listed below or later for the applicable device. Versions earlier than those listed will not operate correctly.

#### 2.5.1.1 For RA Family

- e<sup>2</sup> studio 2023-01 or later\*
- Renesas Flexible Software Package (FSP) v4.3.0 or later
- Renesas Flash Programmer V3.11.02 or later
- E2 Self-Check Program Installer V.1.03.00 or later
- E2 Lite Self-Check Program Installer V.1.01.00 or later

\* When debugging with a version of e<sup>2</sup> studio earlier than 2026-07, the emulator serial number is not displayed, and multiple emulators cannot be connected simultaneously.

This limitation does not apply to Renesas Flash Programmer.

#### 2.5.1.2 For RX Family

- e<sup>2</sup> studio 2023-01 or later\*
- CS+ for CC V8.09.00 or later (including emulator utility)
- Renesas Flash Programmer V3.11.02 or later
- E2 Self-Check Program Installer V.1.03.00 or later
- E2 Lite Self-Check Program Installer V.1.01.00 or later

\* When debugging with a version of e<sup>2</sup> studio earlier than 2026-07, the emulator serial number is not displayed, and multiple emulators cannot be connected simultaneously.

This limitation does not apply to CS+ or Renesas Flash Programmer.

#### 2.5.1.3 For RL78 Family

- e<sup>2</sup> studio 2023-01 or later\*
- CS+ for CC V8.09.00 or later (including emulator utility)
- CS+ for CA, CX V4.09.00 or later (including emulator utility)
- Renesas Flash Programmer V3.11.02 or later
- E2 Self-Check Program Installer V.1.03.00 or later
- E2 Lite Self-Check Program Installer V.1.01.00 or later

\* When debugging with a version of e<sup>2</sup> studio earlier than 2026-07, the emulator serial number is not displayed, and multiple emulators cannot be connected simultaneously.

This limitation does not apply to CS+ or Renesas Flash Programmer.

## 2.5.1.4 For RH850 Family

- e<sup>2</sup> studio 2024-07 or later\*
- CS+ for CC V8.12.00 or later (including emulator utility) \*
- Renesas Flash Programmer V3.11.02 or later
- E2 Self-Check Program Installer V.1.03.00 or later
- E2 Lite Self-Check Program Installer V.1.01.00 or later

\* When debugging with the integrated development environment after updating the USB driver, note the following:

### 1. Notes for e<sup>2</sup> studio Users

When debugging with a version of e<sup>2</sup> studio earlier than 2026-07, the emulator serial number is not displayed, and multiple emulators cannot be connected simultaneously.

This limitation does not apply to CS+ or Renesas Flash Programmer.

### 2. Notes for E2 Emulator Users

The following functions are supported in e<sup>2</sup> studio 2026-07 or later and in CS+ for CC V8.16.00 or later. These functions do not operate correctly in earlier versions.

- Software trace (LPD output) function
- External trigger input/output function
- CAN communication time measurement function
- Synchronized debugging of multiple devices

### 3. Notes for IE850A Users

The following function is supported in e<sup>2</sup> studio 2026-07 or later and CS+ for CC V8.16.00 or later. This function does not operate correctly in earlier versions.

- Synchronized debugging of multiple devices

## 2.5.1.5 For R-Car Family

The development tool versions listed below support only R-Car V4.

For devices other than R-Car V4, apply the workaround described in Section 3.5 Workarounds.

- R-Car e<sup>2</sup> studio 2024-05 or later\*
- E2 Self-Check Program Installer V.1.03.00 or later

\* When debugging with the integrated development environment after updating the USB driver, note the following:

### 1. Notes for R-Car e<sup>2</sup> studio Users

When debugging with a version of e<sup>2</sup> studio earlier than 2026-07, the emulator serial number is not displayed, and multiple emulators cannot be connected simultaneously.

### 2. Notes for E2 Emulator Users

Support for the following functions is planned for R-Car e<sup>2</sup> studio 2026-12 or later.

- Synchronized debugging of multiple devices
- Real-time Performance Monitor function

## 2.5.1.6 For RISC-V MCU (R9A02G021)

- e<sup>2</sup> studio 2024-01 or later\*
- Renesas Flash Programmer V3.14.00 or later
- E2 Self-Check Program Installer V.1.03.00 or later
- E2 Lite Self-Check Program Installer V.1.01.00 or later

\* When debugging with a version of e<sup>2</sup> studio earlier than 2026-07, the emulator serial number is not displayed, and multiple emulators cannot be connected simultaneously.

## 3. Impact on Other Emulator and Flash Memory Programmer Products

### 3.1 Applicable Products

Emulator and flash memory programmer products other than the E2 Emulator, E2 Emulator Lite, and IE850A.

Examples: E1 Emulator, E20 Emulator, E10A-USB Emulator, E8a Emulator, MINICUBE2 Emulator, IECUBE Emulator, IE850 Emulator, E100 Emulator, PG-FP5, etc.

### 3.2 Applicable Devices

78K Family, H8 Family, R8C Family, RL78 Family, H8S Family, H8SX Family, M16C Family, R32C Family, RX Family, SuperH Family, V850 Family, 740 Family, etc.

### 3.3 Details

Due to the Windows driver policy change introduced in April 2026, the USB drivers provided by Renesas may not load correctly on the host PC, which may render the emulator or flash memory programmer unusable.

When this issue occurs, opening the properties of the applicable product in Device Manager will display the device status as Code 39, along with the message: "This file has been blocked by your application control policy."

### 3.4 Conditions

This issue occurs on host PCs running the following OS versions when the cumulative update for Windows 11 (KB5083769) or any subsequent cumulative update has been applied and certain conditions\* are met.

- Windows 11 24H2
- Windows 11 25H2
- Windows 11 26H1 or later (the applicable policy is enabled by default)

\* For details, please refer to "[The Windows Driver Policy | Microsoft Support](#)"

## 3.5 Workarounds

Please consider applying one of the following workarounds for this issue.

### 3.5.1 Migrate to the E2 Emulator, E2 Emulator Lite, or IE850A

If the E2 Emulator, E2 Emulator Lite, or IE850A supports the device you are using, please consider migrating to one of these products.

For device support information, refer to the "[On-chip Debugger Feature Overview](#)" and check the "Target MCU" for each product.

### 3.5.2 Disable the Windows Driver Policy

Refer to "[The Windows Driver Policy | Microsoft Support](#)" and follow the procedure described.

#### Notes

Disabling the Windows Driver Policy removes the driver-loading restrictions imposed by this policy.

As this configuration change may increase security risks, make this change at your own risk.

The content and procedures on the Microsoft Support page are subject to change in the future.

### 3.5.3 Use an OS version not subject to the Windows Driver Policy

Use the product in an environment running Windows 11 23H2 or earlier.

## 3.6 Fixing the Problem

To minimise the impact on our customers, we have conducted technical investigations and evaluated potential countermeasures for each affected product.

However, for the products covered in this section, we have concluded that it would be difficult to implement and fully validate the USB driver and related software modifications required to comply with the Windows Driver Policy while ensuring the required level of quality.

Therefore, we regret to inform you that we have no plans to provide a permanent solution for these products. We apologise for any inconvenience this may cause and kindly ask that you consider the workaround described in this section.

## Revision History

| Rev. | Date      | Description |                                             |
|------|-----------|-------------|---------------------------------------------|
|      |           | Page        | Summary                                     |
| 1.00 | May.29.26 | -           | First edition issued                        |
| 1.10 | Jul.20.26 | 2-4         | Section 2.5 Recommended Actions was changed |
|      |           | 5           | Section 3.5 Workarounds was changed         |
|      |           |             | Section 3.6 Fixing the Problem was changed  |

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