

[Notes]

R20TS0831EJ0100

Rev.1.00

May 16, 2022

RX Family

Board Support Package Module Using Firmware Integration Technology,  
RX Driver Package

Outline

When using the product in the title, note the following point.

1. Notes on using the BSP for a C++ project

1. Notes on Using the BSP for a C++ Project

1.1 Applicable Products

(1) Board Support Package Module Using Firmware Integration Technology (BSP FIT Module)

The applicable revisions and documents are as follows.

Table 1.1 BSP FIT Module applicable products

Revision	Document number
Rev.7.00	R01AN1685EJ0700
Rev.7.10	R01AN1685EJ0710

(2) RX Driver Package

The following RX Driver Packages include the BSP FIT Modules in (1).

The product names, revisions, documents of the RX Driver Packages, and the revisions of the included BSP FIT Modules are as follows.

Table 1.2 Products that include the BSP FIT Module

RX Driver Package product name	RX Driver Package revision	Document number	BSP FIT Module revision
RX Family RX Driver Package Ver.1.33	Rev.1.33	R01AN6073EJ0133	Rev.7.00
RX Family RX Driver Package Ver.1.34	Rev.1.34	R01AN6323EJ0134	Rev.7.10

1.2 Applicable Devices

RX140, RX671

1.3 Details

The build error F0520035: #error directive: "This version of FIT needs C99 (or later)" occurs in the following case: You made a C++ project in either of the devices in 1.2 with an old version (e<sup>2</sup> studio 2021-10 or earlier or RX Smart Configurator V2.11.0 or earlier), opened the smart configurator, used any of the products in 1.1 for the BSP component, generated codes, and then started building.

## 1.4 Conditions

The problem is reproduced as follows.

- (1) Use e<sup>2</sup> studio 2021-10 or earlier or RX Smart Configurator V2.11.0 or earlier and make a C++ project in either of the devices in 1.2.
- (2) Use any of the products in 1.1 for the BSP component, add to the project, and then build.

## 1.5 Workaround

Refer to the following r\_bsp\_config.h and change the number shown in red.

r\_bsp\_config.h

Before modification

```
#define BSP_CFG_SCI_UART_TERMINAL_INTERRUPT_PRIORITY (15)

/* This macro is used for C++ project and updated by Smart Configurator.
 0 = This project is a C project.(Not a C++ project).
 1 = This project is a C++ project.
*/
#define BSP_CFG_CPLUSPLUS (0)

#endif /* R_BSP_CONFIG_REF_HEADER_FILE */
```

After modification

```
#define BSP_CFG_SCI_UART_TERMINAL_INTERRUPT_PRIORITY (15)

/* This macro is used for C++ project and updated by Smart Configurator.
 0 = This project is a C project.(Not a C++ project).
 1 = This project is a C++ project.
*/
#define BSP_CFG_CPLUSPLUS (1)

#endif /* R_BSP_CONFIG_REF_HEADER_FILE */
```

## 1.6 Schedule for Fixing the Problem

Use e<sup>2</sup> studio 2022-01 or later or RX Smart Configurator V2.12.0 or later and make new projects.

### 1.7 Related Tool News

If you import a project made with e<sup>2</sup> studio 2021-10 or earlier or RX Smart Configurator V2.11.0 or earlier, the problem described in the following Tool News occurs. For details, refer to the link below.

<https://www.renesas.com/document/tnn/notes-e-studio-smart-configurator-plug-smart-configurator-rx-17>

Document number: R20TS0820ES0100

[Notes] e<sup>2</sup> studio Smart Configurator Plug-in, Smart Configurator for RX

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	May.16.22	-	First edition issued

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