

[Notes]

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Rev.1.00

Oct. 16, 2021

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.

- Notes on using the BSP for a C++ project

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

1.1 Applicable Products

- 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.5.20	R01AN1685EJ0520
Rev.5.40	R01AN1685EJ0540
Rev.5.50	R01AN1685EJ0550
Rev.5.52	R01AN1685EJ0552
Rev.5.61	R01AN1685EJ0561
Rev.5.62	R01AN1685EJ0562
Rev.5.63	R01AN1685EJ0563
Rev.5.64	R01AN1685EJ0564
Rev.5.66	R01AN1685EJ0566
Rev.6.11	R01AN1685EJ0611
Rev.6.20	R01AN1685EJ0620
Rev.6.21	R01AN1685EJ0621

- RX Driver Package

The BSP FIT Module in (1) is also included in the RX Driver Package.

The product names and revisions of the RX Driver Package, and the revisions of the BSP FIT Module 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.1.20	Rev.1.20	R01AN4794EJ0120	Rev.5.20
RX Family RX Driver Package Ver.1.22	Rev.1.22	R01AN4873EJ0122	Rev.5.20
RX Family RX Driver Package Ver.1.23	Rev.1.23	R01AN4976EJ0123	Rev.5.40
RX Family RX Driver Package Ver.1.24	Rev.1.24	R01AN5267EJ0124	Rev.5.50
RX Family RX Driver Package Ver.1.25	Rev.1.25	R01AN5371EJ0125	Rev.5.52
RX Family RX Driver Package Ver.1.26	Rev.1.26	R01AN5401EJ0126	Rev.5.52
RX Family RX Driver Package Ver.1.27	Rev.1.27	R01AN5600EJ0127	Rev.5.61
RX Family RX Driver Package Ver.1.29	Rev.1.29	R01AN5826EJ0129	Rev.5.63
RX Family RX Driver Package Ver.1.30	Rev.1.30	R01AN5882EJ0130	Rev.5.66
RX Family RX Driver Package Ver.1.31	Rev.1.31	R01AN5975EJ0131	Rev.6.11
RX Family RX Driver Package Ver.1.32	Rev.1.32	R01AN6013EJ0132	Rev.6.21

1.2 Applicable Devices

RX family

1.3 Details

The products do not start up properly under certain conditions.

If you have created a C++ project with the CCRX and used the BSP for it, one of the functions of the BSP startup process "_CALL_INIT"^{*Note} is disabled. The function is not executed during the startup.

^{*Note} "_CALL_INIT" calls a class object constructor that is declared globally. It is provided as a standard library.

1.4 Conditions

The problem occurs when you have created a C++ project with the CCRX and embedded the BSP in the project using the Smart Configurator.

1.5 Workaround

When you create a C++ project with the CCRX and use the BSP for it, refer to the following and delete the codes in red from mcu¥all¥resetprg.c.

R_BSP_POR_FUNCTION(R_BSP_STARTUP_FUNCTION) (L253 to L262)

Before modification

```
/* Initialize C runtime environment */
_INITSCT();

#ifdef(CPPAPP)
/* Initialize C++ global class object */
_CALL_INIT();
#endif

/* Initialize RAM */
bsp_ram_initialize();
```

After modification

```
/* Initialize C runtime environment */
_INITSCT();

/* Initialize C++ global class object */
_CALL_INIT();

/* Initialize RAM */
bsp_ram_initialize();
```

1.6 Schedule for Fixing the Problem

The problem will be fixed in the next version.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Oct.16.21	-	First edition issued

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