

[Notes]

R20TS0974ES0100

Rev.1.00

Nov. 01. 2023

RX Family

LVD Module Firmware Integration Technology

RX Driver Package

Outline

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

1. When using the LVD module in RX Family RX Driver Package Ver.1.40 or Ver.1.41, abnormal behavior in the Smart Configurator would happen when setting the “Voltage detection level” for RX23E-B.
1. When using the LVD module in RX Family RX Driver Package Ver.1.40 or Ver.1.41, abnormal behavior in the Smart Configurator would happen when setting the “Voltage detection level” for RX23E-B.

1.1 Applicable Products

1) RX Driver Package

The product names and revision numbers of the applicable RX Driver Package and the revision numbers of the LVD FIT module are as follows:

Table 1.1 LVD FIT module applicable products

RX Driver Package product name	RX Driver Package revision number	Document number	Revision number of the included LVD FIT module
RX Family RX Driver Package Ver.1.41	Rev.1.41	R01AN6907xx0141	Rev.4.50
RX Family RX Driver Package Ver.1.40	Rev.1.40	R01AN6906xx0140	Rev.4.50

1.2 Applicable Devices

RX23E-B Group.

1.3 Details

Setting “Voltage detection level for channel 1” and “Voltage detection level for channel 2” in Smart Configurator for RX23E-B would result in error

In LVD mdf file (r\_lvd\_rx\_v4.50\_extend.mdf), the “Voltage detection level” constraints for RX23E-B are missing. Therefore, when using Smart Configurator to set “Voltage detection level” either channel 1 or channel 2 for RX23E-B, the error “Selected Vdet is not available for current device” would occur

```
// r_lvd_rx_v4.50_extend.mdf
...
<constraint display="Selected Vdet is not available for current device">...
...
// the "voltage detection level" constraints for RX23E-B are missing.
```

### 1.4 Conditions

- When using Smart Configurator to set “Voltage detection level” (except default value) for RX23E-B.

Below is sample which illustrates the conditions under which the error would happen:

The screenshot shows the 'Software component configuration' window. The 'Configure' tab is active, displaying a table of properties and their values. The property '# Voltage detection level for channel 1' is highlighted in blue and has a red 'X' icon next to its value '429', indicating an error. The other properties are: '# Parameter checking' (System Default), '# Use LVD channel 1' (Corresponding channel is us), '# Use LVD channel 2' (Corresponding channel is us), '# Target to be monitored for channel 1' (VCC), '# Target to be monitored for channel 2' (VCC), '# Voltage detection level for channel 2' (0xFFFF), '# Digital filter for channel 1' (Disable), and '# Digital filter for channel 2' (Disable). Below the table, the macro definition 'LVD\_CFG\_VOLTAGE\_LEVEL\_CHANNEL\_1' is shown. At the bottom, the 'Smart Configurator Output' console displays five error messages: 'E04020001: Selected Vdet is not available for current device'.

Property	Value
Configurations	
# Parameter checking	System Default
# Use LVD channel 1	Corresponding channel is us
# Use LVD channel 2	Corresponding channel is us
# Target to be monitored for channel 1	VCC
# Target to be monitored for channel 2	VCC
# Voltage detection level for channel 1	429
# Voltage detection level for channel 2	0xFFFF
# Digital filter for channel 1	Disable
# Digital filter for channel 2	Disable

Macro definition: LVD\_CFG\_VOLTAGE\_LEVEL\_CHANNEL\_1

```

Smart Configurator Output
E04020001: Selected Vdet is not available for current device
E04020001: Selected Vdet is not available for current device
E04020001: Selected Vdet is not available for current device
E04020001: Selected Vdet is not available for current device
E04020001: Selected Vdet is not available for current device
    
```

### 1.5 Workaround

User should upgrade to LVD FIT Rev.4.60 once it is available.

### 1.6 Schedule for Fixing the Problem

This problem will be fixed in LVD FIT Rev.4.60

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Nov.01.23	-	First edition issued

Renesas Electronics has used reasonable care in preparing the information included in this document, but Renesas Electronics does not warrant that such information is error free. Renesas Electronics assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

The past news contents have been based on information at the time of publication. Now changed or invalid information may be included.

The URLs in the Tool News also may be subject to change or become invalid without prior notice.

**Corporate Headquarters**

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

[www.renesas.com](http://www.renesas.com)

**Trademarks**

Renesas and the Renesas logo are trademarks of Renesas Electronics Corporation. All trademarks and registered trademarks are the property of their respective owners.

**Contact information**

For further information on a product, technology, the most up-to-date version of a document, or your nearest sales office, please visit:

[www.renesas.com/contact/](http://www.renesas.com/contact/)