Errata

RA4L1 Group

Evaluation Kit for RA4L1 Microcontroller Group
EK-RA4L1 v1
Errata

Renesas RA Family
RA4 Series

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Corporate Headquarters

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

This Evaluation Kit is only intended for use in a laboratory environment under ambient temperature and humidity conditions. A safe separation distance should be used between this and any sensitive equipment. Its use outside the laboratory, classroom, study area, or similar such area invalidates conformity with the protection requirements of the Electromagnetic Compatibility Directive and could lead to prosecution.

The product generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off or on, you are encouraged to try to correct the interference by one or more of the following measures:

• Ensure attached cables do not lie across the equipment.

• Reorient the receiving antenna.

• Increase the distance between the equipment and the receiver.

• Connect the equipment into an outlet on a circuit different from that which the receiver is connected.

• Power down the equipment when not in use.

• Consult the dealer or an experienced radio/TV technician for help.

Note: It is recommended that wherever possible shielded interface cables are used.

The product is potentially susceptible to certain EMC phenomena. To mitigate against them it is recommended that the following measures be undertaken:

• The user is advised that mobile phones should not be used within 10 m of the product when in use.

• The user is advised to take ESD precautions when handling the equipment.

The Evaluation Kit does not represent an ideal reference design for an end product and does not fulfill the regulatory standards for an end product.

Renesas RA Family

EK-RA4L1 v1

Contents

Figures

1. Introduction

This Errata describes the known issues and deviations to the functional specifications for the EK-RA4L1 v1, the Evaluation Kit for the RA4L1 MCU Group. For additional information on the kit, see the EK-RA4L1 v1 User's Manual.

2. Known Issues and Exceptions

2.1 Port Expander pull resistor issue

The interrupt pin on the port expander (U15), is pulled up by +3.3V. While in low power mode

(MCU Voltage < +3.3V), current will flow towards the interrupt pin.

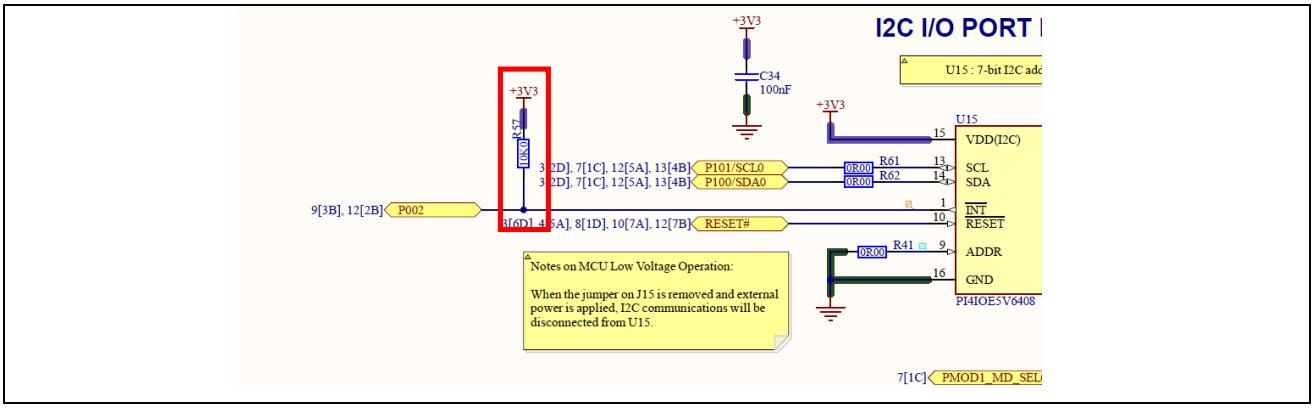

Figure 1. Debug in Connector

2.1.1 Corrective Action

Please remove R57 before running the EK-RA4L1 in low power mode.

2.1.2 Boards Affected

Version : 1
Serial number : 291505 to 291804 and 26439 to 27438

2.2 Board silkscreen issue

The MCU information silkscreen on board EK-RA4L1 is incorrect. The P/N should be R7FA4L1**B**D4CFP.

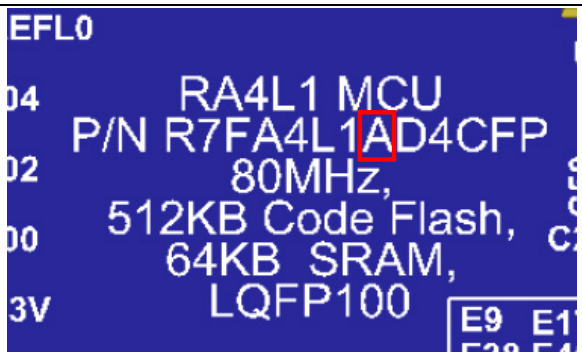

Figure 2. P/N silkscreen issue

2.2.1 Corrective Action

Please refer to the P/N on the physical MCU rather than the silkscreen.

2.2.2 Boards Affected

Version : 1
Serial number : 291505 to 291804 and 26439 to 27438

3. Appendix – Board Identification

3.1 Board Version

The board version can be found on the EK-RA4L1 board packaging label and EK-RA4L1 board as described in this section. The board version is the last digit in the orderable part number as shown in the Figure 3. In the example below, the board version number is “1” as shown in both Figure 3 and Figure 4.

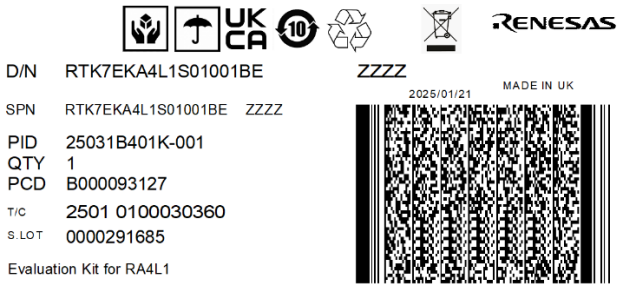

Figure 3. Identification of the Kit Version Number on the EK-RA4L1 Kit Packaging

Figure 4. Identification of the Kit Version Number on the EK-RA4L1 Board.

3.2 Serial Number

In addition to the kit version number, the kit serial number is used to uniquely identify a kit.

The serial number is located on the packaging label identified as S.LOT and on the bar code sticker on the back/bottom side of EK-RA4L1 board. In the example in Figure 5 and Figure 6, the serial number is “291685”

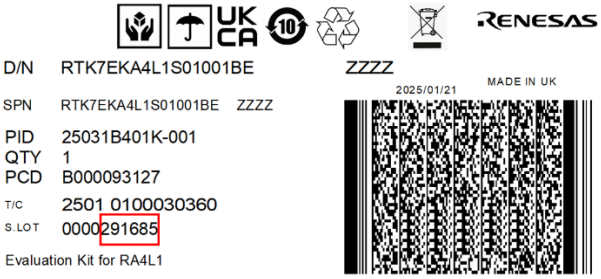

Figure 5. Identification of the Serial Number on the EK-RA4L1 Kit Packaging

Figure 6. Identification of the Serial Number on the EK-RA4L1 Board

4. Website and Support

Visit the following URLs to learn about the kit and the RA family of microcontrollers, download tools and documentation, and get support.

EK-RA4L1 Resources	renesas.com/ek-ra4l1
RA Kit Information	renesas.com/ra/kits
RA Product Information	renesas.com/ra
RA Product Support Forum	renesas.com/ra/forum
RA Videos	renesas.com/ra/videos
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