Errata

RA2E1 Group

Fast Prototyping Board for RA2E1 Microcontroller Group
FPB-RA2E1 v1
Errata

Renesas RA Family
RA2 Series

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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

FPB-RA2E1 v1

Contents

Figures

1. Introduction

This Errata describes the known issues and exceptions to the functional specifications for the FPB-RA2E1 v1, Fast Prototyping Board for the RA2E1 MCU Group. For additional information on the kit, see the FPB-RA2E1 v1 user's manual.

2. Known Issues and Exceptions

2.1 MCU Pin Header J3 Silkscreen

2.1.1 Description

The MCU Pin Header J3 has an incorrect label for pin 32. This is identified as P302/SWCLK when it should be P300/SWCLK. The schematic is correct.

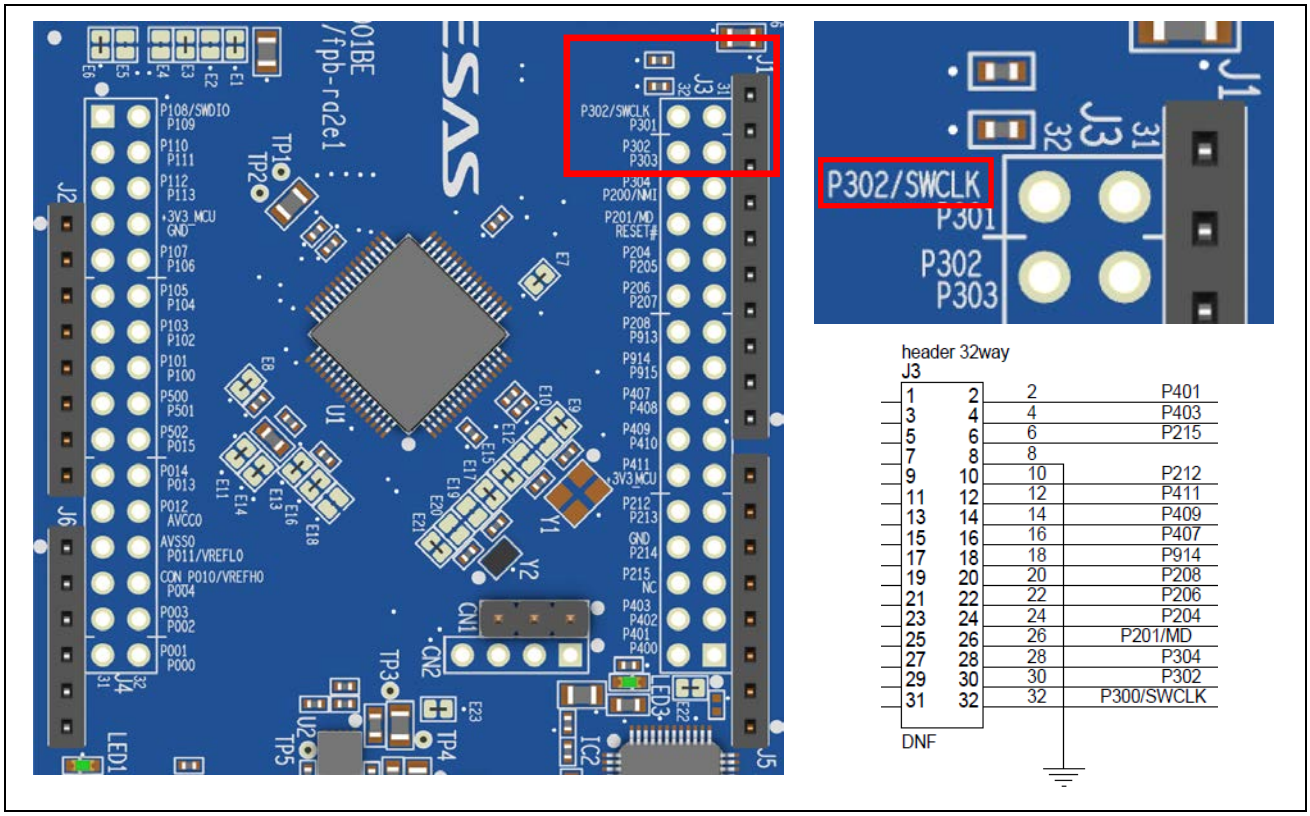

Figure 1. MCU Pin Header J3 Pin 32 Silkscreen Error

2.1.2 Corrective Action

None. The silkscreen has been corrected to show the correct pin identification on later builds of the board.

2.1.3 Kits Affected

Version : 1
Serial number : 0957110001 to 0957112000

2.2 Error Message (0x00030108)

2.2.1 Description

The following error has been reported when debugging:

```
Error 0x00030108: Rewriting of the MCU's internal flash ROM was not normally executed
due to access violation to the MCU's internal flash ROM.
```

This has been identified as a hardware issue. To fix this error, cut trace-cut jumper E27, disconnecting P300/SWCLK from P201/MD. **This will disable the SCI boot selection option**. To re-enable SCI boot selection, pins 1-2 of CN3 must be connected. Jumper CN3 is not fitted to the FPB-RA2E1, Wuerth Elektronik MPN: 613 003 111 21 is recommended to fit if required.

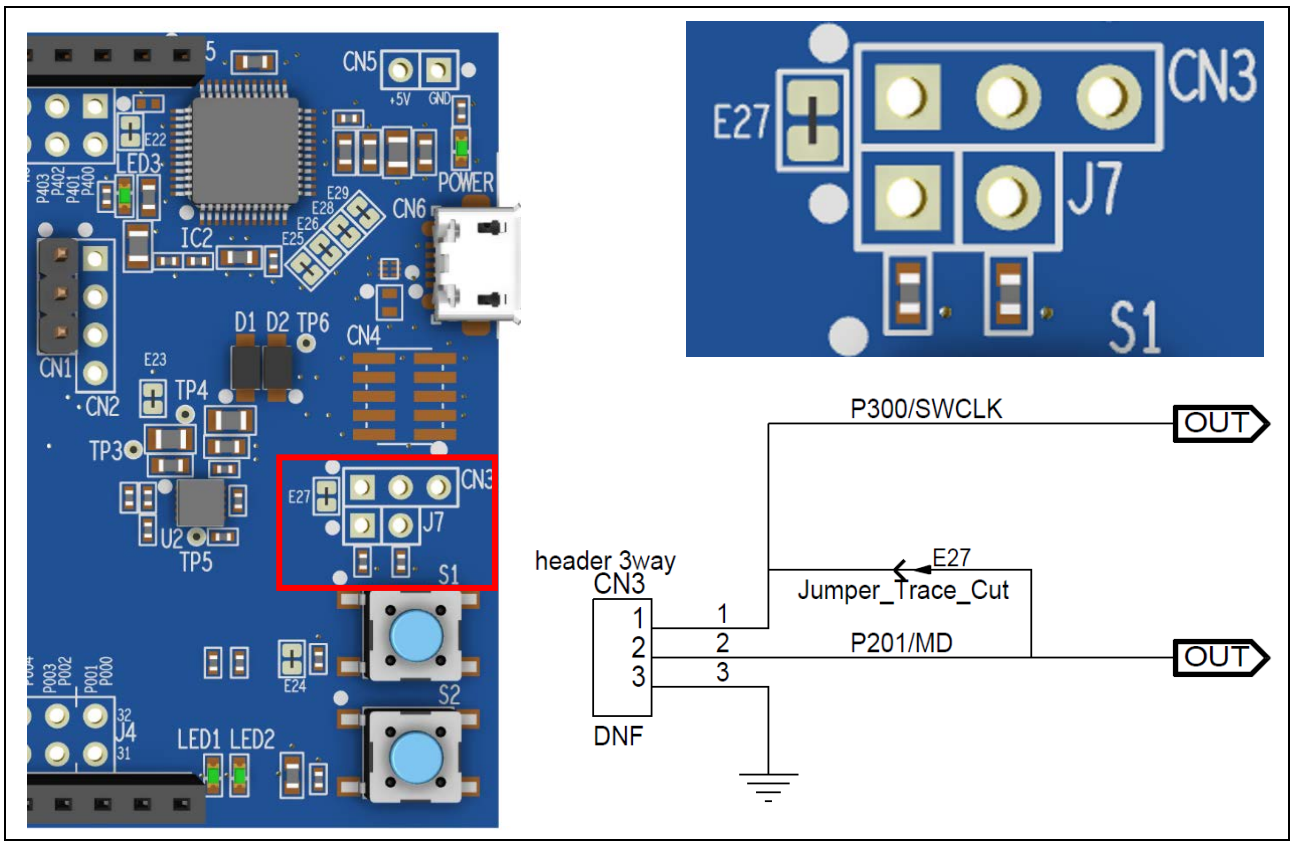

Figure 2. E27 and CN3 on FPB-RA2E1

2.2.2 Corrective Action

Further developments include improving the emulator firmware to allow P300/SWCLK and P201/MD to be connected without receiving the error message.

2.2.3 Kits Affected

Version : 1
Serial number : 0957110001 to 0957112000 and 0957114001 to 0957115200

3. Appendix – Kit Identification

3.1 Kit Version

The kit version can be found on the FPB-RA2E1 kit packaging label as described in this section. The kit version is the last digit in the orderable part number as shown in Figure 2. In the following example the kit version number is “1”.

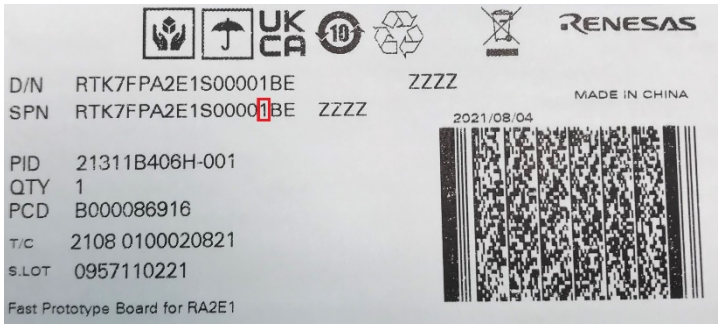

Figure 3. Identification of the Kit Version Number on the FPB-RA2E1 Kit Packaging

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 serial number sticker on the back/bottom side of FPB-RA2E1 board. In the example in Figure 3 and Figure 4, the serial number is “0957110221.”

Figure 4. Identification of the Serial Number on the FPB-RA2E1 Kit Packaging

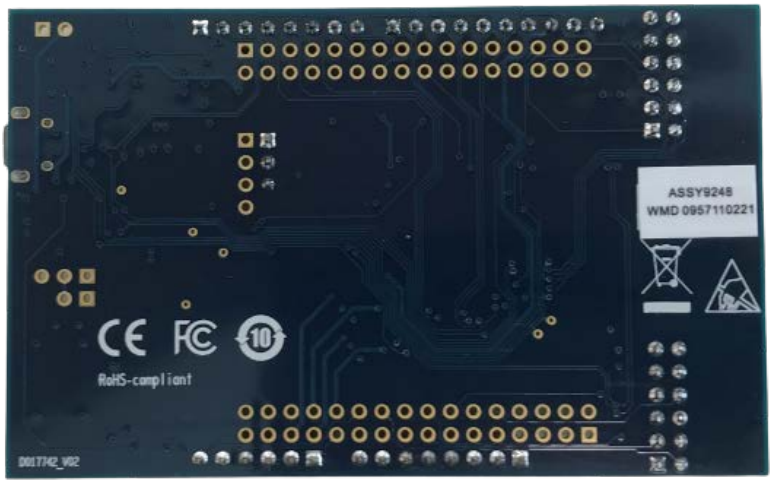

Figure 5. Identification of the Serial Number on the FPB-RA2E1 Board

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.

FPB-RA2E1 Resources	renesas.com/fpb-ra2e1
RA Product Information	renesas.com/ra
RA Product Support Forum	renesas.com/ra/forum
Renesas Support	renesas.com/support

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Oct.01.21	—	Initial release
1.01	Aug.13.24	5	Added Error Message (0x00030108)

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