

RYZ014A

LTE Cat-M1 Cellular Pmod™ Expansion Board
for RYZ014A
Errata

Renesas LTE Cat-M1 Cellular IoT Modules

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Precautions

This RYZ014A Pmod Expansion Board 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 RYZ014A

RYZ014A Pmod™ Expansion Board

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1. Introduction

This Errata describes the known issues and exceptions to the functional specifications for the RYZ014A Pmod Expansion Board.

2. Known Issues and Exceptions

2.1 RTS0 Pull-up Resistor R1

2.1.1 Description

The RTS0 signal (pin 75) of the RYZ014A module should be pulled up to VDD1V8. On the schematic and board the 0R pull-up resistor R1 (DNF) is connected to VDD3V3.

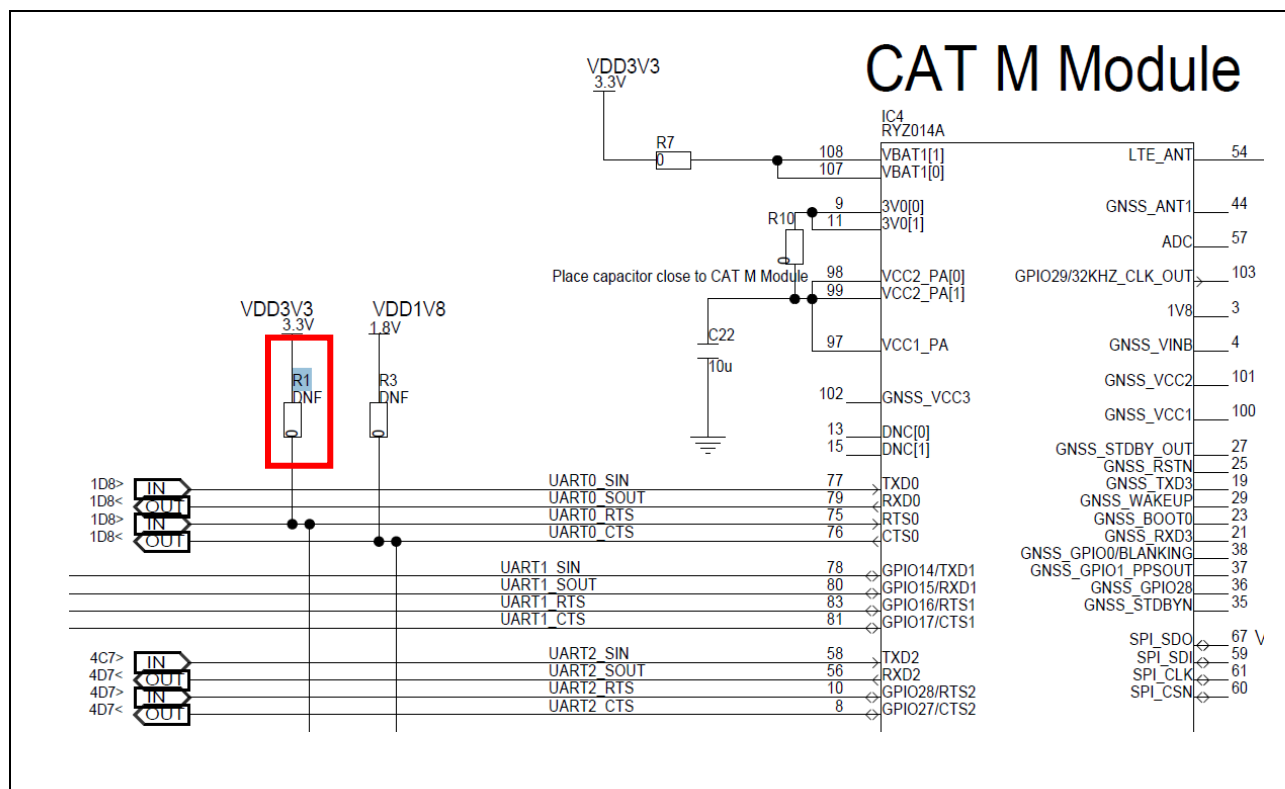


Figure 1. RTS0 Pull-up Resistor R1

2.1.2 Corrective Action

In your own design implementation, ensure that the RTS0 signal is pulled up to 1.8 V if needed. Refer to the *RYZ014A Module Hardware Manual* and *RYZ014A Module Integration Guide* for more details – see resource links in section 3.

2.2 Module Power Enable POWER_EN

2.2.1 Description

The module POWER_EN signal (pin 106) should be pulled down to GND via a 470K resistor. On the schematic and board a 100K pull-down resistor R6 is used.

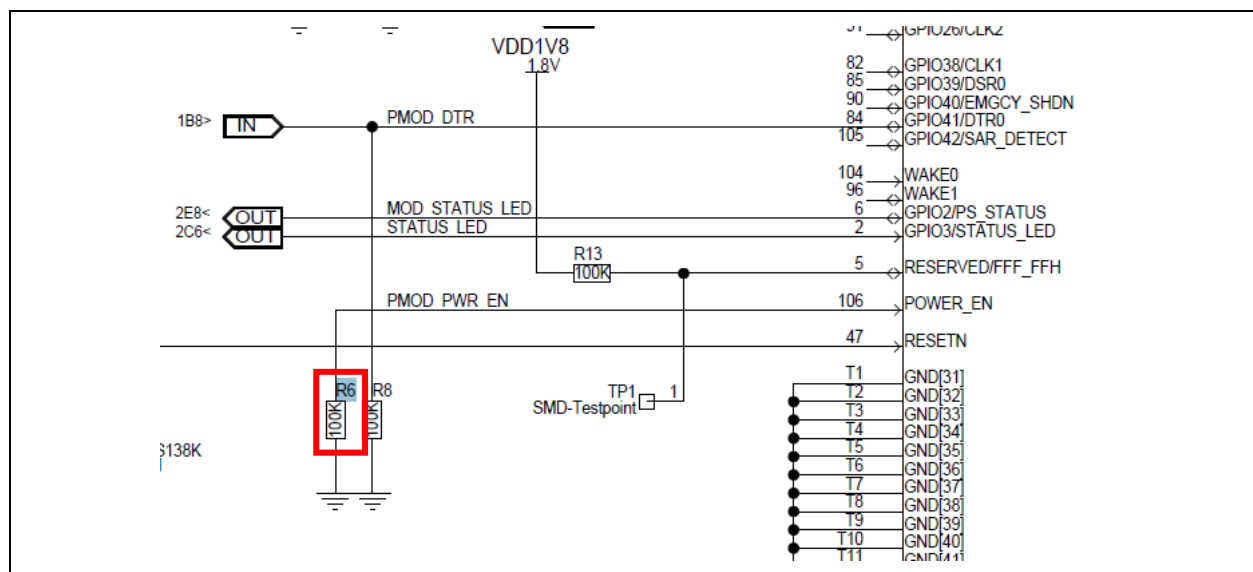


Figure 2. Module Power Enable POWER_EN

2.2.2 Corrective Action

In your own design implementation, ensure that this signal is pulled-down via a 470K resistor. Refer to the *RYZ014A Module Hardware Manual* and *RYZ014A Module Integration Guide* for more details – see resource links in section 3.

2.3 GPIO23, GPIO24 Reserved Pins

2.3.1 Description

GPIO23 (pin 88) and GPIO24 (pin 93) are reserved pins and should not be used. On the board, GPIO24 (pin 93) is used to drive TR3.

On the schematic, GPIO23 is incorrectly identified as pin 93 and GPIO24 is incorrectly identified as pin 88.

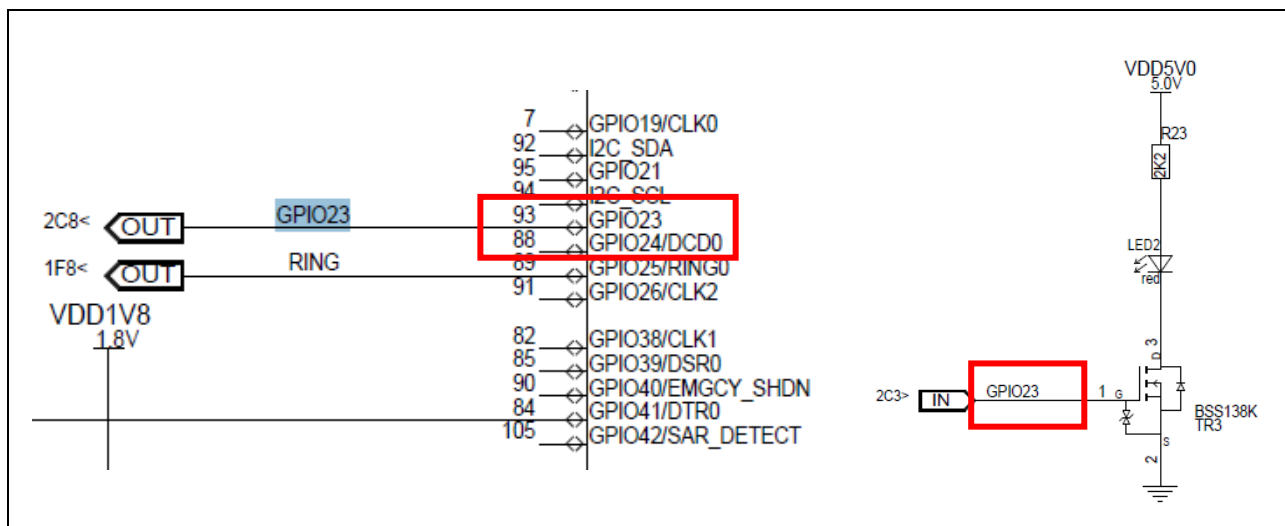


Figure 3. Reserved Pin GPIO23

2.3.2 Corrective Action

In your own design implementation ensure that GPIO23 and GPIO24 are not connected. Refer to the module hardware manual for more details.

3. Website and Support

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

RYZ014A Resources	renesas.com/ryz014a
Product Knowledge Base	renesas.com/kb/wirelessmodules
Renesas Support	renesas.com/support

Revision History

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		Page	Summary
1.00	May.06.22	—	Initial release

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