
RIIM SDK Errata Note

Errata Note

This document describes known errors and bugs in products that have a high level of importance and affects coexistence between revisions.

RIIM SDK REV 3.0.0

1. I2C and UART communication

Description of the issue

If I2C is initialised and UART is opened, there will be a single dummy byte in the UART buffer immediately.

Modules affected

Hardware: x.xx

Firmware: SDK 3.0.0

Module: RC1882CEF-IPM, RC1882HPCF-IPM and RC1892HPCF-IPM

Suggested work-around before fix

Make sure to avoid using I2C and UART simultaneously.

Final fix of the issue

This issue has been fixed with RIIM SDK 3.1.0(and higher).

2. UDP communication

Description of the issue

UDP.send4() does not work when used with ethernet and NAT64 on border router.

Modules affected

Hardware: x.xx

Firmware: SDK 3.0.0

Module: RC1882CEF-IPM, RC1882HPCF-IPM and RC1892HPCF-IPM

Suggested work-around before fix

The workaround is to use UDP.send6 instead of UDP.send4. The address will need to be an IPv6 address, where the prefix is a special value, and the last 4 bytes are the IPv4-address. For example:

Instead of writing this

```
const uint8_t serverIP4Addr[4]={192,168,1,150};
UDP.send4(serverIP4Addr, 12345, "tst", 3);
```

You write this:

```
const IPAddr serverIP6Addr = { 0, 0x64, 0xff, 0x9b, 0, 0, 0, 0, 0, 0, 0, 0, 192, 168, 1, 150};
UDP.send6(serverIP6Addr, 12345, "tst", 3);
```

Final fix of the issue

This issue has been fixed with RIIM SDK 3.1.0(and higher).

3. High packet density

Description of the issue

When sending data and getting one lost packet, the module waits too long to resend in TSCH mode. In situation with more than 1 packet per/10 seconds, this can cause message congestion and higher packet error rate than expected.

Modules affected

Hardware: x.xx

Firmware: SDK 3.0.0

Module: RC1882CEF-IPM, RC1882HPCF-IPM and RC1892HPCF-IPM

Suggested work-around before fix

Avoid sending data more than every 10 seconds in TCSH model

Final fix of the issue

This issue has been fixed with RIIM SDK 3.1.0(and higher).

Disclaimer

Radiocrafts AS believes the information contained herein is correct and accurate at the time of this printing. However, Radiocrafts AS reserves the right to make changes to this product without notice. Radiocrafts AS does not assume any responsibility for the use of the described product; neither does it convey any license under its patent rights, or the rights of others. The latest updates are available at the Radiocrafts website or by contacting Radiocrafts directly. As far as possible, major changes of product specifications and functionality, will be stated in product specific Errata Notes published at the Radiocrafts website. Customers are encouraged to check regularly for the most recent updates on products and support tools.

© 2021, Radiocrafts AS. All rights reserved.

Contact Information

Web site: www.radiocrafts.com

Address:

Radiocrafts AS
Sandakerveien 64
NO-0484 OSLO
NORWAY

Tel: +47 4000 5195

Fax: +47 22 71 29 15

E-mail: radiocrafts@radiocrafts.com

sales@radiocrafts.com

support@radiocrafts.com