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## RIIM SDK Errata Note

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### 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).

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