

Product change notification

Topic LARA-R220-62B, LARA-R280-02B firmware update
UBX-19029271

Author Drazen Drinic

Date 15-May-2020

Copying, reproduction, modification or disclosure to third parties of this document or any part thereof is only permitted with the express written permission of u-blox. The information contained herein is provided "as is" and u-blox assumes no liability for its use. No warranty, either express or implied, is given, including but not limited to the accuracy, correctness, reliability and fitness for a particular purpose of the information. This document may be revised by u-blox at any time. For most recent documents, visit www.u-blox.com.
Copyright© u-blox AG.

1 Affected products

Product name	Order code	Type no (old)	FW (old)	Type no (new)	FW (new)
LARA-R220	LARA-R220-62B	LARA-R220-62B-02	30.44 A01.05	LARA-R220-62B-03	30.44,A01.07
LARA-R280	LARA-R280-02B	LARA-R280-02B-03	30.43 A01.04	LARA-R280-02B-04	30.43,A01.06

2 Type of change

- Hardware modification
- Firmware update
- Documentation update
- Others

3 Description of change

[u-blox ID 3925] ASN.1 decoding issue.

This fix addresses a defect in the way ASN.1-encoded messages contained in information broadcast by LTE base stations are decoded by the module. Some parts of these messages are used to convey network information to the device. The failure to properly decode these messages can impact the ability of the module to establish an LTE connection.

The fix included in the maintenance release resolves the decoding defect and makes the module more robust and able to properly decode those messages.

Other changes implemented on application level:

[u-blox ID 4579] missing SNI (server name indication) feature for SSL/TLS

As of the date indicated in the schedule below, a new firmware release will be applied to the affected products in production.

4 Schedule

New type number with new firmware will be introduced in production with estimated first shipment date shown here:

Estimated first shipment date	15-Jun-2020
--------------------------------------	-------------

5 Customer impact and recommended action

u-blox has taken utmost care to ensure full backward compatibility to the previous versions. Successor products are pin-to-pin compatible with their predecessors.

Customer devices in the field that have an old type number or are using old firmware, and are operating normally, are at risk of failure due to future changes in the network. (Ref. [u-blox ID 3925] ASN.1 decoding issue).

It is therefore recommended that modules with the old type number be upgraded with the new firmware version as outlined in the table above. New firmware can be downloaded to the module using serial interface, USB, or over the air (FOTA).

With respect to NTT docomo certification on LARA-R220-62B, the end-device manufacturer shall discuss how to apply the proper process with their point of contact at the NTT docomo; paperwork-only activity is expected. NTT docomo approval for LARA-R220-62B product is achieved.

Implemented product changes do not affect regulatory certification (Giteki, RCM, NCC).

6 Known bugs and limitation

See the information notes [2], [3].

7 Reference documents

- [1] u-blox AT commands manual, [UBX-13002752](#)
- [2] LARA-R220-62B IP IN, [UBX-17061668](#)
- [3] LARA-R280-02B IP IN, [UBX-17063950](#)
- [4] LARA-R2 series system integration manual, [UBX-16010573](#)
- [5] LARA-R2 series data sheet, [UBX-16005783](#)
- [6] LARA-R220-62B-01 PCN, [UBX-18050698](#)
- [7] LARA-R280-02B-01 FW update, [UBX-18018067](#)
- [8] LARA-R280-02B-02 PCN, [UBX-18052020](#)
- [9] LARA-R280-02B-03, LARA-R220-62B-02 FW update, [UBX-18057549](#)