

Information note

Topic **LARA-R6001-00B / LARA-R6401-00B / LARA-R6801-00B IP information note Rev. 2**
UBX-22019779 C1-Public

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1 Affected products

| Product name | Ordering code | Type number | Firmware | Remarks |
|--------------|----------------|-------------------|-------------------------------------|---------|
| LARA-R6001 | LARA-R6001-00B | LARA-R6001-00B-00 | Modem: 02.14 Application: A00.01 | |
| LARA-R6401 | LARA-R6401-00B | LARA-R6401-00B-00 | Modem: 02.14 Application: A00.01 | |
| LARA-R6801 | LARA-R6801-00B | LARA-R6801-00B-00 | Modem: 02.14 Application: A00.01 | |

2 Type

- | | |
|--|--|
| <input checked="" type="checkbox"/> Product status change | <input checked="" type="checkbox"/> Documentation update |
| <input type="checkbox"/> Hardware/component change | <input type="checkbox"/> Certification information |
| <input checked="" type="checkbox"/> Firmware/software update | <input type="checkbox"/> Security advisory |
| <input checked="" type="checkbox"/> Label change | <input type="checkbox"/> Other |

3 Description

Status of the above listed product has changed from Engineering Samples (ES) to Initial Production (IP). The module labels have been updated to include related certification information.

3.1 Hardware changes

No hardware changes.

3.2 Software changes

The following issues have been fixed:

Internet suite

- [u-blox ID 2671]: +USOCK AT command with <async_connect>=1 does not work in case the socket uses a <cid> different from the default one (e.g. in +UMNOPROF: 3 case).

Connectivity

- [u-blox ID 2628]: [MUX]: Wrong CRC when MUX packet has a size equal to 127 bytes.

Registration/Network services

- [u-blox ID 1925]: Jamming detection is not supported using LARA-R6401.
- [u-blox ID 2373]: +UCGED in LTE does not report MNC-MCC. RSRP/RSRQ ranges are not aligned with documentation.

Audio

- [u-blox ID 2672]: The freetone locally generated in VoLTE call continues to play if the called party rejects the call in alerting state.

4 Schedule

| | |
|--|-------------|
| Estimated first shipment date ¹ : | 22-Aug-2022 |
| Documentation (e.g. release note) | Available |

5 Firmware update

- ES units (LARA-R6001D-00B-00, LARA-R6401-00B-00 and LARA-R6801-00B-00 FW version: 01.14 A00.01) can be upgraded to the IP firmware by means of the u-blox EasyFlash tool, FOAT and FOTA procedures. See section 2.6 of the u-blox LARA-R6 series system integration manual [3] for details on the hardware requirements to perform the firmware update over USB interface using the u-blox EasyFlash tool.
- An IP unit cannot be downgraded with the ES firmware.

5.1 Firmware update packages and md5 signature

| Product / delivery | Filename | md5sum |
|--|--|----------------------------------|
| LARA-R6001-00B | | |
| EasyFlash | LARA-R6001-00B-00-IP-0214A0001-002K00.dof | fafd90b20a0d57fbf049e647fdf56a3e |
| FOTA from ES 01.14,A00.01 to IP 02.14,A00.01 uFOTA ID: 1708 | LARA-R6001-00B-00-ES-0114A0001-002K00_LARA-R6001-00B-00-IP-0214A0001-002K00.upd | 8a56c190377be13ad0f5586f05d423f7 |
| FOAT | LARA-R6001-00B-00-IP-0214A0001-002K00.upd | 200d96fa2082a19718401fe3b583435b |
| FOTA test 02.14,A00.01 to 02.14_ENG0099 uFOTA ID: 1709 | LARA-R6001-00B-00-IP-0214A0001-002K00_LARA-R6001-00B-00-XX-0214ENG0499A0001-002K00.upd | 66f041110dabc11961330a80a973a8d4 |
| FOTA test 02.14_ENG0099 to 02.14,A00.01 uFOTA ID: 1710 | LARA-R6001-00B-00-XX-0214ENG0499A0001-002K00_LARA-R6001-00B-00-IP-0214A0001-002K00.upd | ee79607d11d25e9fa7b94778fbd6ced3 |

¹ The estimated first shipment date is the forecasted date that a customer may expect to receive product

| Product / delivery | Filename | md5sum |
|--|--|----------------------------------|
| LARA-R6401-00B | | |
| EasyFlash | LARA-R6401-00B-00-IP-0214A0001-005K00.dof | 0c351d8d76d4effaf6104f10badb59a9 |
| FOTA from ES 01.14,A00.01 to IP 02.14,A00.01 uFOTA ID: 1711 | LARA-R6401-00B-00-ES-0114A0001-005K00_LARA-R6401-00B-00-IP-0214A0001-005K00.upd | bde6460edcf5d24a6b1a9bb1dd3cde3b |
| FOAT | LARA-R6401-00B-00-IP-0214A0001-005K00.upd | 34807d92a1fbf8623735db369e0e0994 |
| FOTA test 02.14,A00.01 to 02.14_ENG0099 uFOTA ID: 1712 | LARA-R6401-00B-00-IP-0214A0001-005K00_LARA-R6401-00B-00-XX-0214ENG0499A0001-005K00.upd | af5f89f70b7779a4a134b31aa3891537 |
| FOTA test 02.14_ENG0099 to 02.14,A00.01 uFOTA ID: 1713 | LARA-R6401-00B-00-XX-0214ENG0499A0001-005K00_LARA-R6401-00B-00-IP-0214A0001-005K00.upd | 20164f0169c78290bf33c63edc8bcd7f |
| LARA-R6801-00B | | |
| EasyFlash | LARA-R6801-00B-00-IP-0214A0001-007K00.dof | dc0f2d1e8fa8b90663fc23c4c7f236dd |
| FOTA from ES 00.11,A00.01 to IP 02.14,A00.01 uFOTA ID: 1714 | LARA-R6801-00B-00-ES-0114A0001-007K00_LARA-R6801-00B-00-IP-0214A0001-007K00.upd | f08e75b0ea9457d192eddc0f16e60f29 |
| FOAT | LARA-R6801-00B-00-IP-0214A0001-007K00.upd | e3c9fe439730e9b0ec9c4b4530ca9c73 |
| FOTA test 02.14,A00.01 to 02.14_ENG0099 uFOTA ID: 1715 | LARA-R6801-00B-00-IP-0214A0001-007K00_LARA-R6801-00B-00-XX-0214ENG0499A0001-007K00.upd | ee3c9258f0f56374e68bf1b7e29f5df2 |
| FOTA test 02.14_ENG0099 to 02.14,A00.01 uFOTA ID: 1716 | LARA-R6801-00B-00-XX-0214ENG0499A0001-007K00_LARA-R6801-00B-00-IP-0214A0001-007K00.upd | a338eac1d98654a837c56a86ac913ca5 |

6 Tools

- m-center v02.06.00 – Download from the u-blox.com website: [m-center](#)
- EasyFlash 13.03 – Download from the u-blox.com website: [EasyFlash](#)
- Windows driver v1.0.0.0 – Download from the u-blox.com website: [LARA-R6 driver](#)

7 Related documentation

- [1] u-blox LARA-R6 series AT commands manual, [UBX-21046719](#)
- [2] u-blox LARA-R6 series data sheet, [UBX-21004391](#)
- [3] u-blox LARA-R6 series system integration manual, [UBX-21010011](#)
- [4] u-blox EVK-R6 user guide, [UBX-21035387](#)
- [5] u-blox LARA-R6 Internet applications development guide, [UBX-22001854](#)

Appendix

A Known bugs and limitations

Internet suite

- [u-blox ID 1806] [u-blox ID 1958]: Possible data loss while uploading file via UDP direct link.
- [u-blox ID 2523]: In direct link mode, AT command processing on all other COM ports is suspended, so AT commands are not processed and URC are not printed.
- [u-blox ID 2687]: Keep alive option of +USOCO is not functional.
- Limitation: to exit direct link, +++ shall be received in a separate frame by the module. See LARA-R6 Internet applications development guide [5] for details.

Registration/Network services

- [u-blox ID 1932]: Transitory registration URCs (+CREG, +CEREG, +CGREG) do not always match with the effective registration state.
- [u-blox ID 3013]: In UCS2 format the operator name is wrongly displayed by the +COPS read command.
- [u-blox ID 2159]: The +COPS read command reports SIM operator name in long and short format.

SIM management

- [u-blox ID 890]: SIM not present is returned by +CPIN read command after boot for a transitory phase of a few seconds.

Connectivity

- [u-blox ID 2967]: FOAT file transfer on UART with baud rate 3'000'000 bit/s is not functional.

V24 control and V25ter

- [u-blox ID 77]: All modules have echo disabled (ATE0). After a factory reset (+UFACTORY) the echo configuration is set to enable. If it is necessary to have the echo enabled, we suggest issuing the command to enable the echo (ATE1) at module boot, as soon as the AT interface is ready. This is suggested to be executed within the host application production process, where we recommend also to execute the file system backup by issuing the AT+UBKUPDATA command after having enabled the echo.