Sample Delivery Note

Product Name	Ordering Code	Design Status	Created		Document #
SARA-N200 SARA-N201 SARA-N210 SARA-N211 SARA-N280	SARA-N200-02B SARA-N201-02B SARA-N210-02B SARA-N211-02B SARA-N280-02B	Engineering Samples	Samuele Falcomer	16-Oct-2017	UBX-17057306

1.	Identification			
Package	SARA-N200 SARA-N201 SARA-N210 SARA-N211 SARA-N280	Marking	SARA-N200-02B-00 SARA-N201-02B-00 SARA-N210-02B-00 SARA-N211-02B-00 SARA-N280-02B-00
Firmware	06.57, A03.02	No of units	

2.	New features, restrictions and limitations
New features introduced in this version: see A. Restrictions and limitation: see B, C. ⚠ **Module firmware version is only suitable for limited production testing**	

3.	Workarounds
Workarounds – if available – are described in B, C.	

4.	Test Status	
☐ Tested according to specification	☐ Untested	☑ Limited testing. See B, C
Note: The parts have gone through a limited/manual production test. Test program not yet released to the production.		

5.	References
[1] SARA-N2 series Data Sheet, u-blox Document UBX-15025564-R11 [2] SARA-N2 series AT Commands Manual, u-blox Document UBX-16014887-R09 [3] SARA-N2 series System Integration Manual, u-blox Document UBX-17005143-R02 [4] NB-IoT system User Guide, u-blox Document UBX-16017368-R03	

6.	Expected Customer Feedback		Expected by	
Feedback should be provided to u-blox technical support				

7.	Sample Delivery Release		
Product Manager			
Name: Samuele Falcomer	Date: 16-Oct-2017		

Note: Samples are intended for test purposes. Type approvals may not yet have been completed in all countries.

A   Description of changes

A.1 Hardware

- No changes

A.2 Firmware

- Current FW version solves the issue present in the previous FW delivery (06.57, A02.02) that caused an abnormal current consumption on the module during the deep-sleep mode
- The release includes u-blox proprietary AT commands
- Main features and capabilities introduced:
  - Power saving settings (AT+CPSMS)
  - Setting module power class as 20 dBm or 23 dBm (AT+NPOWERCLASS)
  - eDRX settings (AT+CEDRXS)
  - Power saving mode status report (AT+NPSMR)
  - RRC cell reselection (AT+NCONFIG)
  - SMS (AT+CSMS, AT+CMGS, AT+CMGC)
  - Non-IP mode (AT+CGDCONT)
  - Frequency band selection (AT+UBANDSEL)
  - Ring indication and network indication over CTS line (AT+URING, AT+UGPIOC)
  - Setting of the UART baud rate (AT+NATSPEED)
  - Time zone reporting (AT+CTZU)
  - Initial PDP context activation (AT+CIPCA)
  - Setting paging time window value and eDRX (AT+NPTWEDRXS)
  - ADP rate control (AT+CGAPNRC)
  - AT commands for datagram messages over CoAP fully implemented
  - New greeting message: `"u-blox"`

A.3 Applications

- The tool UEUpdater version v3.5.0.1 has to be used to execute the FW upgrade

B   Restrictions and limitations

B.1 Hardware

None

B.2 Firmware

B.2.1 Functionalities

- Firmware update Over The Air (FOTA) not implemented
- RF testing in non signalling mode (AT+UTEST) not implemented