


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		
<input type="checkbox"/> Tested according to specification <input type="checkbox"/> Untested <input checked="" type="checkbox"/> 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
<div>[1] SARA-N2 series Data Sheet, u-blox Document UBX-15025564-R11</div> <div>[2] SARA-N2 series AT Commands Manual, u-blox Document UBX-16014887-R09</div> <div>[3] SARA-N2 series System Integration Manual, u-blox Document UBX-17005143-R02</div> <div>[4] NB-IoT system User Guide, u-blox Document UBX-16017368-R03</div>	

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

B.2.2 AT commands

- [u-blox id 61] +CEREG does not provide EPS registration status for emergency bearer services
- [u-blox id 61] +NATSPEED optional parameters not allowed to be skipped
- [u-blox id 61] +NMSTATUS spelling mistake in read command
- [u-blox id 159] In +CMGC the <ackpdu> parameter is not issued in the information text response to the read command
- [u-blox id 160] In +CMGS the <ackpdu> parameter is not issued in the information text response to the read command

B.2.3 Non-IP / SMS modes










Limited testing executed on the following features:

- Non-IP mode
- SMS

C List of known bugs

- None

D Prototypes Disclaimers

-  This device is a sample and intended for engineering development, demonstration or evaluation only. The device is not considered by u-blox to be a finished end product.
-  No license is granted to users of the device under any intellectual property right of u-blox or its licensors, except to the extent necessary to perform the afore-mentioned development, demonstration or evaluation.
-  This product does not fall within the scope of the European Union directives regarding electromagnetic compatibility and safety requirements, and therefore may not meet the technical requirements of these directives.
-  This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained. Prototype only, not for sale.
-  Persons handling this device must have appropriate engineering skills and observe sound engineering practice.
-  This sample is put at disposal on an "as is" basis, without any express or implied warranty. In particular, u-blox makes no representation or warranty of any kind regarding the fitness of the device for any particular purpose.
-  u-blox expressly assumes no liability for the sample's design, for any software performance, or for infringement of any third party intellectual property rights.
-  The user of this device assumes all responsibility and liability for its legal and safe handling, and the user will defend u-blox from and indemnify u-blox for any claim arising from the handling of such device.
-  Except to the extent of the indemnity set forth above, neither party shall be liable to the other for any indirect, special, incidental or consequential damages.