

DATA SHEET U-BLOX SARA-N211 WIRELESS MODULE

KEY BENEFITS

Ultra-low power consumption delivering 10+ years battery life, with excellent extended range in buildings, underground (MCL 164 dB)

Extended temperature range of -40 °C to +85 °C and ISO/TS16949 manufacturing

Easy migration between u-blox 2G, 3G and 4G modules

Very small SARA LGA form factor for easy manufacturing

Support for both IP based and non-IP based Small Data over NAS (SDoNAS)

NETWORK

3GPP Protocol Stack Compliancy	Release 13
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	800, 900
3GPP Classes / Categories	
CSD	None
GPRS Multislot Class (DL/UL)	None
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	NB1 (27.2 kbps, 62.5 kbps)
Short Message Service (SMS)	Text, PDU
Speech Codecs	None
Firmware Updates	Over-the-air update service, UART
Integrated Positioning Technology	
GPS	None
GLONASS	None

Control Plane A-GPS Support	None
SUPL A-GPS Support	None
Regulatory	
eCall	None
Standalone / Assisted GNSS	None
TTY	None

HARDWARE

Dimensions (L x W x H, mm)	16.0 x 26.0 x 2.4
Weight (g)	< 3
On-board Memory	Supported
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	2.9 – 4.2
Interfaces	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8 V
Module ON/Reset	Supported
ADC and I2C	I2C Supported
4-Wire HS Serial Interfaces SCA1	None
Analog Audio	None
Digital Audio	None



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	06.57 (A07.03) (09.07.2018)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Full certification (AT, CZ, DE, NL, PL, SK)
Deutsche Telekom Affiliate Country Codes	
AL	Telekom Albania
AT	T-Mobile Austria GmbH
CZ	T-Mobile Czech Republic a.s.
DE	Telekom Deutschland GmbH
GR	COSMOTE Mobile Telecommunications S.A.
HR	Hrvatski Telekom d.d.
HU	Magyar Telekom Telecommunications plc
ME	Cmorgski Telekom a.d. Podgorica
MK	Makedonski Telekom AD – Skopje
NL	T-Mobile Netherlands B.B.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



CONTACT

Deutsche Telekom AG
Friedrich-Ebert-Allee 140
53113 Bonn
iot-device-support@telekom.de



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