

DATA SHEET U-BLOX SARA-N210 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 |
| 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 |

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|-----------------------------|------|
| 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) | Limited certification (AT, CZ, DE, NL, PL, SK) for pilot usage (GCF certification outstanding, technical issues to be addressed) |
| 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 | Comorgski 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. |



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