

DATA SHEET QUECTEL UG96 WIRELESS MODULE

KEY BENEFITS

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|---|
| GSM/UMTS worldwide connectivity |
| Penta-band UMTS/HSPA |
| Super slim profile in LGA package |
| Compact SMT form factor for size-constrained applications |
| Extended temperature range of -40 to +85° C |
| Voice call and SMS (Text/PDU format) support |
| Supports 3GPP Rel. 7 |

NETWORK

| | |
|---|--|
| 3GPP Protocol Stack Compliancy | Rel.7 |
| Support for TS.34 IoT Communication Efficiency | Supported (RPM) |
| Wireless Protocol Support | |
| 2G/GPRS | Supported |
| 3G/UMTS | Supported |
| 4G/LTE | None |
| NB-IoT | None |
| Frequency Band Support | |
| 2G Bands (MHz) | 850, 900, 1800, 1900 |
| 3G Bands (MHz) | B1, B2, B5, B8, B20 |
| 4G Bands (MHz) | None |
| NB-IoT Bands (MHz) | None |
| 3GPP Classes / Categories | |
| CSD | Up to 14.4 kbps |
| GPRS Multislot Class (DL/UL) | 12 (107 kbps, 85.6 kbps) |
| EDGE Class (DL/UL) | 12 (296 kbps / 236,8 kbps) |
| HSDPA Category (DL) | 8 (7.2 Mbps) |
| HSUPA Category (UL) | 6 (5.76 Mbps) |
| LTE Category | None |
| NB-IoT Category | None |
| Short Message Service (SMS) | Text, PDU |
| 2G Speech Codecs | GSM FR, GSM HR, GSM EFR, FR AMR, HR AMR, FR AMR-WB |
| 3G Speech Codecs | UMTS AMR; UMTS AMR2; UMTS AMR-WB |
| Firmware Updates | QuecFOTA, DFOTA, USB |

Integrated Positioning Technology

| | |
|-----------------------------|------|
| GPS | None |
| GLONASS | None |
| Control Plane A-GPS Support | None |
| SUPL A-GPS Support | None |

Regulatory

| | |
|----------------------------|-------------------|
| eCall | Under Development |
| Standalone / Assisted GNSS | None |
| TTY | None |

HARDWARE

| | |
|---|-------------------|
| Dimensions (L x W x H, mm) | 22.5 x 26.5 x 2.2 |
| Weight (g) | 3.1 |
| On-board Memory | None |
| Operating Temperature – Extended Operation (°C) | -40 °C to +85 °C |
| Supply Voltage Range (V) | 3.3 - 4.3 |
| Interfaces | |
| USB 2.0 (480 Mbps) | Supported |
| ASC0 HS Serial Modem | None |
| GPIO Lines | None |
| UICC and U/SIM (1.8 V/3 V) | 1.8 V, 3 V |
| Module ON/Reset | Supported |
| ADC and I2C | Supported (I2C) |
| 4-Wire HS Serial Interfaces SCA1 | Supported |
| Digital Audio, prepared for Analog Audio | Optional |



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CERTIFICATION DETAILS

| | |
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| GMA Certification | None |
| Deutsche Telekom Certification Date (Initial Firmware) | 11.07.2018 (UG96LNAR02A06E1G) |
| Certified Deutsche Telekom Affiliates | AL, AT, CZ, DE, GR, HR, HU, ME, MK, NL, PL, RO, SK |
| Certifying Entity | DTAG IDU-TIV |
| DT Certification Type (Conditions) | Full certification |
| 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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