

# DATA SHEET SIMCOM SIM7500E WIRELESS MODULE

## KEY BENEFITS

|   |
|---|
| Multi mode capability including low latency LTE cat.1 connectivity    |
| Lowest cost LTE category module                                       |
| Low power consumption with extended idle and sleep mode (<5mA @sleep) |
| IPv4/v6 / IPv6 support  |
| GNSS supported (GPS, GLONASS) – standalone/assisted                   |
| Extended temperature range of -40 to +85° C                           |
| Compact LGA type design (24 x 27 x 2.75 mm)                           |
| Voice call and SMS (Text/PDU format) support                          |

## NETWORK

|   |  |
|---|--|
| <b>3GPP Protocol Stack Compliancy</b>                 | Release 10   |
| <b>Support for TS.34 IoT Communication Efficiency</b> | Supported (RPM)  |
| <b>Wireless Protocol Support</b>                      |  |
| 2G/GPRS   | Supported  |
| 3G/UMTS   | Supported  |
| 4G/LTE  | Supported  |
| NB-IoT  | None   |
| <b>Frequency Band Support</b>                         |  |
| 2G Bands (MHz)  | 900, 1800  |
| 3G Bands (MHz)  | B1, B8   |
| 4G FDD Bands (MHz)                                    | B1, B3, B7, B8, B20  |
| 4G TDD Bands (MHz)                                    | None   |
| NB-IoT Bands (MHz)                                    | None   |
| <b>3GPP Classes / Categories</b>                      |  |
| CSD   | Up to 9.6 kbps   |
| GPRS Multislot Class (DL/UL)                          | 12 (85.6 kbps, 85.6 kbps)                                    |
| EDGE Class (DL/UL)                                    | 12 (236.8 kbps, 236.8 kbps)                                  |
| HSDPA Category (DL)                                   | 24 (42 Mbps)   |
| HSUPA Category (UL)                                   | 6 (5,76 Mbps)  |
| LTE Category  | 4 (150 Mbps, 50 Mbps)  |
| NB-IoT Category                                       | None   |
| <b>Short Message Service (SMS)</b>                    | Text, PDU  |
| <b>Speech Codecs</b>                                  | GSM FR, GSM HR, GSM EFR, FR AMR, HR AMR, UMTS AMR, UMTS AMR2 |

|  |               |
|--|---------------|
| <b>Firmware Updates</b>                  | Via USB, FOTA |
| <b>Integrated Positioning Technology</b> |               |
| GPS                                      | Supported     |
| GLONASS                                  | Supported     |
| Control Plane A-GPS Support              | None          |
| SUPL A-GPS Support                       | None          |
| <b>Regulatory</b>                        |               |
| eCall                                    | None          |
| Standalone / Assisted GNSS               | Supported     |
| TTY                                      | None          |

## HARDWARE

|   |                  |
|---|------------------|
| Dimensions (L x W x H, mm)                      | 27 × 24 × 2.75   |
| Weight (g)                                      | 4                |
| On-board Memory                                 | None             |
| Operating Temperature – Extended Operation (°C) | -40 °C to +85 °C |
| Supply Voltage Range (V)                        | 3.4- 4.2 V       |
| <b>Interfaces</b>                               |                  |
| USB 2.0 (480 Mbps)                              | Supported        |
| ASC0 HS Serial Modem                            | None             |
| GPIO Lines                                      | Supported        |
| UICC and U/SIM (1.8 V/3 V)                      | 1.8 V, 3 V       |
| Module ON/Reset                                 | Supported        |
| ADC and I2C                                     | Supported        |
| 4-Wire HS Serial Interfaces SCA1                | Supported        |
| Digital Audio, prepared for Analog Audio        | Supported        |

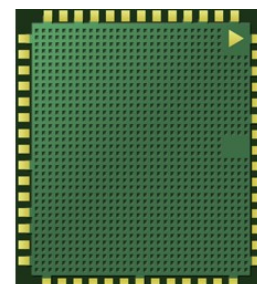


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## CERTIFICATION DETAILS

|  |  |
|--|--|
| GMA Certification                                      | None   |
| Deutsche Telekom Certification Date (Initial Firmware) | 17.08.2018<br>(LE11B06SIM7500M21)                  |
| 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)                     | <b>Limited</b><br>(GCF certification missing)      |
| <b>Deutsche Telekom Affiliate Country Codes</b>        |  |
| AL   | Telekom Albania                                    |
| AT   | T-Mobile Austria GmbH                              |
| CZ   | T-Mobile Czech Republic a.s.                       |
| DE   | Telekom Deutschland GmbH                           |
| GR   | COSMOTE Mobile<br>Telecommunications S.A.          |
| HR   | Hrvatski Telekom d.d.                              |
| HU   | Magyar Telekom<br>Telecommunications plc           |
| ME   | Comorgski Telekom a.d. Podgorica                   |
| MK   | Makedonski Telekom AD –<br>Skopje                  |
| NL   | T-Mobile Netherlands B.B.                          |
| PL   | T-Mobile Polska S.A.                               |
| RO   | Telekom Romania Mobile<br>Communications S.A.      |
| SK   | Slovak Telekom, a.s.                               |



## CONTACT

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