

DATA SHEET SIMCOM SIM7600E 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, Beidou) – standalone/assisted
Extended temperature range of -40 to +85° C
Compact LGA type design (30.0 x 30.0 x 2.9 mm) - unified form factor compatible with family of modules

NETWORK

3GPP Protocol Stack Compliancy	Release 10
Support for TS.34 IoT Communication Efficiency	Supported (RPM)
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	Supported
NB-IoT	None
Frequency Band Support	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	B1, B5, B8
4G FDD Bands (MHz)	B1, B3, B5, B7, B8, B20
4G TDD Bands (MHz)	B38, B40, B41
NB-IoT Bands (MHz)	None
3GPP Classes / Categories	
CSD	None
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	1 (10 Mbps, 5 Mbps)
NB-IoT Category	None
Short Message Service (SMS)	Text, PDU
Speech Codecs	GSM FR, GSM HR, GSM EFR, FR AMR, HR AMR UMTS AMR, UMTS AMR2
Firmware Updates	Via USB, FOTA

Integrated Positioning Technology

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

HARDWARE

Dimensions (L x W x H, mm)	30.0 x 30.0 x 2.9
Weight (g)	5.7
On-board Memory	None
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.4- 4.2 V (typical: 3.8V)
Interfaces	
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 (dev-kit board)
ADC and I2C	Supported
4-Wire HS Serial Interfaces SCA1	Supported
Digital Audio, prepared for Analog Audio	Supported

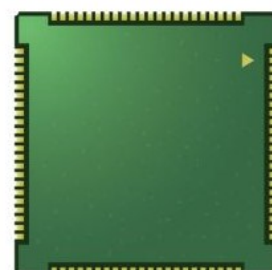


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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	21.09.2018 (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)	Limited (GCF certification missing)
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	Comrgski 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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