

DATA SHEET SIMCOM SIM7000E WIRELESS MODULE

KEY BENEFITS

Strong extension capability with rich interface including UART, USB2.0, GPIO, etc.

Package and AT commands of SIM7000E mostly compatible with SIM900 and SIM800F

Designed for Applications requiring low latency, medium throughput data communication in a variety of radio propagation conditions

LTE UE Category NB1 compliant to latest 3GPP Rel. 13 enhanced Machine-Type-Communications (eMTC), specifically designed for IoT use cases

Minimum power consumption and extended coverage

Embedded UDP/IP stack

Extended temperature range: -40 °C to +85 °C

NETWORK

3GPP Protocol Stack Compliancy	Release 13
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
eMTC	Supported *
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	None
4G Bands (MHz)	None
eMTC Bands (MHz)	800, 900, 1800 *
NB-IoT Bands (MHz)	800, 900, 1800
3GPP Classes / Categories	
CSD	None
GPRS Multislot Class (DL/UL)	33
EDGE Class (DL/UL)	33
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
eMTC Category	M1 *

* Device not certified for eMTC (LTE Cat-M1) deployment

** TCP mode not verified during certification

NB-IoT Category	NB1 (27.2 kbps, 62.5 kbps)
Short Message Service (SMS)	Text, PDU
Speech Codecs	None
Protocol Support	UDP, TCP **
Firmware Updates	UART
Integrated Positioning Technology	
GPS	Supported
GLONASS	Supported
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
Regulatory	
eCall	None
Standalone / Assisted GNSS	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS
TTY	None

HARDWARE

Dimensions (L x W x H, mm)	24.0 x 24.0 x 2.6
Weight (g)	3
On-board Memory	None
Operating Temperature - Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.1 - 4.2
Interfaces	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	Supported, 5x
UICC and U/SIM (1.8 V/3 V)	1.8 V
Module ON/Reset	Supported
ADC and I2C	ADC, 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)	1529B01SIM7000E
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Limited (GCF certification outstanding; resolution of chipset-specific issues necessary, as per technical report)
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	Crnogorski 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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