

DATA SHEET SIMCOM SIM7000G WIRELESS MODULE

KEY BENEFITS

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

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

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

NETWORK

3GPP Protocol Stack Compliance	Release 13
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
LTE-M	Supported
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	850, 900, 1800, 1900
3G Bands (MHz)	None
4G Bands (MHz)	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28, B39*
NB-IoT Bands (MHz)	B1, B2, B3, B5, B8, B12, B13, B17, B18, B19, B20, B26, B28
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	M1
NB-IoT Category	NB1
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
Operating Temperature – Extended Operation (°C)	-40 to +85
Supply Voltage Range (V)	3.1 - 4.3
Interfaces	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	5
UICC and U/SIM (1.8 V/3 V)	1.8
Module ON / Reset	Supported
ADC and I2C	ADC, I2C supported
Serial Interfaces 1.8 V (including automatic baud rate detection)	None
Digital Audio, prepared for Analog Audio	None



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	03.06.2019 (1529B01SIM7000G)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	Full
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	Omorgski 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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