

DATA SHEET SIMCOM SIM7020E 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
Package and AT commands of SIM7020E mostly compatible with SIM800C to maximizes the investments of customers by enabling a short time-to-market
Designed for applications requiring low latency, low throughput data communication in a variety of radio propagation conditions
Due to the unique combination of performance, security and flexibility, this module is ideally suited for M2M applications, such as metering, asset tracking, remote monitoring, E-health etc.
Minimum power consumption and extended coverage
Embedded UDP/IP stack

NETWORK

3GPP Protocol Stack Compliance	Release 13
Support for TS.34 IoT Communication Efficiency	Supported
Wireless Protocol Support	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	B1, B3, B5, B8, B20, B28
3GPP Classes / Categories	
CSD	None
GPRS Multislot Class (DL/UL)	None
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	NB1
Short Message Service (SMS)	Text, PDU
Speech Codecs	None
Protocol Support	UDP, TCP, LWM2M / COAP, MQTT, FTP / HTTP / SSL
Firmware Updates	UART
Integrated Positioning Technology	
GPS	None

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

HARDWARE

Dimensions (L x W x H, mm)	17.6 x 15.7 x 2.4
Weight (g)	Not specified
Operating Temperature – Extended Operation (°C)	-40 to +85
Supply Voltage Range (V)	3.1 - 4.2
Interfaces	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	Supported
Module ON / Reset	Supported
ADC and I2C	ADC
Serial Interfaces 1.8 V (including automatic baud rate detection)	None
Digital Audio, prepared for Analog Audio	None



LIFE IS FOR SHARING.

DATA SHEET SIMCOM SIM7020E WIRELESS MODULE

CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	25.04.2019 (1752B08SIM7020E)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, HU, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	Limited
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.



CONTACT

Deutsche Telekom AG
Friedrich-Ebert-Allee 140
53113 Bonn
iot-device-support@telekom.de



LIFE IS FOR SHARING.