

# DATA SHEET TELIT GE866-QUAD WIRELESS MODULE

Easy and low cost to integrate in small application sizes because of ultra-compact and robust LGA package

Easy to use in mass-production automated manufacturing

## Key Benefits

Fully voice capable with analog and digital audio interfaces

Battery friendly operates on 1.8 V GPIOs

System in a Package (SiP) platform for complete IoT solutions with embedded Python Script Interpreter

Jamming detection

Ideal solution for Applications in wearables, security alarm systems, automated meter reading and POS terminals

## Network

<b>3GPP Protocol Stack Compliance</b>	Release 4
<b>Support for TS.34 IoT Communication Efficiency</b>	Partial (NFM)
<b>Wireless Protocol Support</b>	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
<b>Frequency Band Support</b>	
2G Bands (MHz)	850, 900, 1800, 1900
3G Bands (MHz)	None
4G Bands (MHz)	None
<b>3GPP Classes/Categories</b>	
CSD	V.110 (9.6 kbps)
GPRS Multislot Class (DL/UL)	10 (85.6 kbps, 85.6 kbps)
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
<b>Short Message Service (SMS)</b>	Supported (Text, PDU, Cell Broadcast, Phonebook)

<b>Speech Codecs</b>	FR, HR, EFR, AMR
<b>Firmware Updates</b>	Premium over-the-air update service
<b>Positioning Support</b>	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	Supported
Standalone/Assisted GNSS	None
TTY	Supported

## Hardware

Dimensions (L x W x H, mm)	19 x 15 x 2.2
Weight (g)	1.5
On-board Memory	800 kB NV for User Scripts, 1 MB RAM for Python Engine
Operating Temperature - Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.1 - 4.5
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	Supported
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8 V Supported; 3 V only with external connector
Module ON/Reset	Supported
ADC and I <sup>2</sup> C	Supported
4-Wire HS Serial Interfaces ASC1	Supported
Analog Audio	Supported
Digital Audio	Supported



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## Certification Details

GMA Certification	Yes
Deutsche Telekom Certification Date (Initial Firmware)	16.01.143 (19.04.2017)
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)	Full (Limited implementation of DT modem settings requirements)

## 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.V.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



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