

# DATA SHEET TELIT GL865-DUAL V3.1 WIRELESS MODULE

## KEY BENEFITS

2 GSM/GPRS bands support
Full HW and SW compatibility with previous V3 generation – direct replacement path
Pin-to-pin compatibility with 3G variant – UL865
Recommended for new 2G cost-sensitive designs
Recommended for applications requiring ultra low power consumption
Ideal for applications in security alarm systems, automated meter readings and POS terminals
GNSS supported – external module needed
Python script interpreter
800 kB memory for application, 1 MB RAM
Voice call and SMS support
Compact design (24.4 mm × 24.4 mm × 2.6 mm)

## NETWORK

<b>3GPP Protocol Stack Compliancy</b>	Rel. 4
<b>Support for TS.34 IoT Communication Efficiency</b>	Supported (NFM)
<b>Wireless Protocol Support</b>	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
NB-IoT	None
<b>Frequency Band Support</b>	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	None
<b>3GPP Classes / Categories</b>	
CSD	Supported
GPRS Multislot Class (DL/UL)	10
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	None

<b>Short Message Service (SMS)</b>	Text, PDU
<b>2G Speech Codecs</b>	HR,FR,EFR,AMR
<b>3G Speech Codecs</b>	None
<b>Firmware Updates</b>	UART, FOTA
<b>Integrated Positioning Technology</b>	
GPS	Supported <sup>1)</sup>
GLONASS	Supported <sup>1)</sup>
Control Plane A-GPS Support	Supported <sup>1)</sup>
SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	None
Standalone / Assisted GNSS	None
TTY	None

## HARDWARE

Dimensions (L x W x H, mm)	24.4 × 24.4 × 2.6
Weight (g)	2.8
On-board Memory	800 kB memory for application, 1 MB RAM
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.22 - 4.3, 3.8 Typ.
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	None
GPIO Lines	8
UICC and U/SIM (1.8 V/3 V)	1.8 V, 3 V
Module ON/Reset	Supported
ADC and I2C	Supported (ADC)
4-Wire HS Serial Interfaces SCA1	Supported
Digital Audio, prepared for Analog Audio	Optional



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## CERTIFICATION DETAILS

GMA Certification	NO
Deutsche Telekom Certification Date (Initial Firmware)	11-07-2018 (16.01.174)
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 certification
<b>Deutsche Telekom Affiliate Country Codes</b>	
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	Comorgski 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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