

DATA SHEET TELIT UL865-EUR WIRELESS MODULE

Simple drop-in migration and technology upgrade path to 3G high-speed performance for designs using GL865-DUAL V3

Voice-capable for Applications requiring digital (DVI) interface

Key Benefits

Battery-friendly 1.8 V GPIO

Over the air firmware update (Premium FOTA management)

Built-in UDP/IP and TCP/IP stacks

Complete SMT platform for IoT solutions running customer application inside module with embedded Python script interpreter

Designed for use in POS terminals, Health monitoring, security alarms with cameras, handheld scanners, logistics devices and battery powered devices

Ideal solution for fleet management and asset tracking when pairing with external GPS | GLONASS receivers

Network

3GPP Protocol Stack Compliancy	Release 7
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	None
Frequency Band Support	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	900, 2100
4G Bands (MHz)	None
3GPP Classes/Categories	
CSD	V.110 (9.6 kbps)
GPRS Multislot Class (DL/UL)	33 (107 kbps, 85.6 kbps)
EDGE Class (DL/UL)	33 (296 kbps, 236.8 kbps)
HSDPA Category (DL)	8 (7.2 Mbps)
HSUPA Category (UL)	6 (5.76 Mbps)
LTE Category	None
Short Message Service (SMS)	Supported (Text, PDU, Cell Broadcast, Phonebook)

Speech Codecs	FR, HR, EFR, AMR (2G/3G)
Firmware Updates	Premium over-the-air update service
Positioning Support	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
Regulatory	
eCall	Supported
Standalone/Assisted GNSS	None
TTY	None

Hardware

Dimensions (L x W x H, mm)	24.4 x 24.4 x 2.6
Weight (g)	N/A
On-board Memory	5 MB File system, 2 MB RAM for Applications
Operating Temperature - Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.4 - 4.2
Interfaces	
USB 2.0 (480 Mbps)	Supported
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 ² C	Supported
4-Wire HS Serial Interfaces ASC1	Supported
Analog Audio	None
Digital Audio	Supported



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Certification Details

GMA Certification	Yes
Deutsche Telekom Certification Date (Initial Firmware)	12.00.001 (09.03.2012)
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 Certification Date (Firmware Update 1)	12.00.003 (09.11.2012)
Deutsche Telekom Certification Date (Firmware Update 2)	12.00.005 (16.05.2014)
Deutsche Telekom Certification Date (Firmware Update 3)	12.00.008 (21.10.2016)
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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