

# DATA SHEET QUECTEL EG91-E WIRELESS MODULE

## KEY BENEFITS

Cost-effective, lower-power LTE connectivity optimized for broadband IoT applications
Multi-band LTE, UMTS/HSPA+ and GSM/GPRS/EDGE coverage
Compact SMT form factor ideal for size-constrained applications with extended operation temperature range
Embedded power management unit (PMU) featuring ultra-low deep-sleep current consumption
Simple migration from 2G/3G to 4G with a flexible and scalable platform
VoLTE support (optional)
Voice call and SMS (Text/PDU format) support
Cost-effective, lower-power LTE connectivity optimized for broadband IoT applications

## NETWORK

<b>3GPP Protocol Stack Compliancy</b>	Release 10
<b>Support for TS.34 IoT Communication Efficiency</b>	Supported (RPM)
<b>Wireless Protocol Support</b>	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	Supported
NB-IoT	None
<b>Frequency Band Support</b>	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	B1, B8
4G FDD Bands (MHz)	B1, B3, B7, B8, B20, B28A
4G TDD Bands (MHz)	None
NB-IoT Bands (MHz)	None
<b>3GPP Classes / Categories</b>	
CSD	None
GPRS Multislot Class (DL/UL)	Max 107Kbps/Max 85.6Kbps
EDGE Class (DL/UL)	Max 296Kbps/Max 236.8Kbps
HSDPA Category (DL)	24 (42 Mbps)
HSUPA Category (UL)	6 (5,76 Mbps)
LTE Category	1 (10 Mbps, 5 Mbps)
NB-IoT Category	None
<b>Short Message Service (SMS)</b>	Text, PDU

<b>Speech Codecs</b>	HR,FR,EFR,AMR,AMR-WB
<b>Firmware Updates</b>	Via USB, DFOTA
<b>Integrated Positioning Technology</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	None

## HARDWARE

Dimensions (L x W x H, mm)	29.0×25.0×2.3
Weight (g)	3.8
On-board Memory	None
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.3V~4.3V, 3.8V Typ.
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	Supported
GPIO Lines	None
UICC and U/SIM (1.8 V/3 V)	1.8 V, 3V
Module ON/Reset	Supported
ADC and I2C	None
4-Wire HS Serial Interfaces SCA1	Supported
Digital Audio, prepared for Analog Audio	Supported



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## CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	28.08.2018
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)	<b>LIMITED</b>
<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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