

# DATA SHEET QUECTEL EC25-E (MINI PCIE) WIRELESS MODULE

## KEY BENEFITS

Worldwide LTE and UMTS/HSPA+ and GSM/GPRS/EDGE coverage
IPv6 support
Updating firmware over the air (DFOTA)
GNSS supported (GPS/GLONASS/BeiDou/Galileo and QZSS)
Extended temperature range of -40 to +85° C
VoLTE support (optional)
Voice call and SMS (Text/PDU format) support
Compact design (32.0mm×29.0mm×2.4mm)

## 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, B5, B8
4G FDD Bands (MHz)	B1, B3, B5, B7, B8, B20
4G TDD Bands (MHz)	B38, B40, B41
NB-IoT Bands (MHz)	None
<b>3GPP Classes / Categories</b>	
CSD	None
GPRS Multislot Class (DL/UL)	12 (107 kbps, 85.6 kbps)
EDGE Class (DL/UL)	12 (296.8 kbps, 236.8 kbps)
HSDPA Category (DL)	24 (42 Mbps)
HSUPA Category (UL)	6 (5,76 Mbps)
LTE Category	4 (150 Mbps, 50 Mbps)
NB-IoT Category	None
<b>Short Message Service (SMS)</b>	Text, PDU
<b>Speech Codecs</b>	HR,FR,EFR,AMR,AMR-WB

<b>Protocol Support</b>	TCP, UDP, PPP, MMS, HTTP, HTTPS, SMTP, SMTSP, FTP, NTP, NITZ, SSL
<b>Firmware Updates</b>	Via USB, DFOTA
<b>Integrated Positioning Technology</b>	
GPS	Supported
GLONASS	Supported
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	Under development
Standalone / Assisted GNSS	Supported
TTY	None

## HARDWARE

Dimensions (L x W x H, mm)	32.0 × 29.0 × 2.4
Weight (g)	4.9
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.3 - 4.3, 3.8 Typ.
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	None
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8 V, 3 V
Module ON/Reset	Supported
ADC and I2C	Supported
4-Wire HS Serial Interfaces SCA1	Supported
Digital Audio, prepared for Analog Audio	Supported



LIFE IS FOR SHARING.

# DATA SHEET QUECTEL EC25-E (MINI PCIE) WIRELESS MODULE

## CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	28.06.2018 EC25EFAR02A08M4G
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>FULL</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.



## CONTACT

Deutsche Telekom AG  
Friedrich-Ebert-Allee 140  
53113 Bonn  
[iot-device-support@telekom.de](mailto:iot-device-support@telekom.de)



LIFE IS FOR SHARING.