

DATA SHEET QUECTEL® EC25-E MODULE

KEY BENEFITS

Worldwide LTE and UMTS/HSPA+ and GSM/GPRS/EDGE coverage
Support IPv6
Free firmware updates 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 x 29 x 2.4 mm)

NETWORK

3GPP Protocol Stack Compliancy	Release 10
Support for TS.34 IoT Communication Efficiency	Radio Policy Manager (RPM)
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	Supported
NB-IoT	None
Frequency Band Support	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	B1, B5, B8
4G Bands (MHz)	B1, B3, B5, B7, B8, B20, B38, B40, B41
NB-IoT Bands (MHz)	None
3GPP Classes / Categories	
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
Short Message Service (SMS)	Text, PDU mode
Speech Codecs	HR, FR, EFR, AMR, AMR-WB
Protocol Support	TCP, UDP, PPP, MMS, HTTP, HTTPS, SMTP, SMTPS, FTP, NTP, NITZ, SSL
Firmware Updates	Via USB, DFOTA

Integrated Positioning Technology

GPS	Supported
GLONASS	Supported
Control Plane A-GPS Support	None
SUPL A-GPS Support	None

Regulatory

eCall	None
Standalone / Assisted GNSS	Supported
TTY	None

HARDWARE

Dimensions (L x W x H, mm)	32 x 29 x 2.4
Weight (g)	4.9
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.3 - 4.3V, 3.8V Typ.

Interfaces

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
I ² C	Supported
4-Wire HS Serial Interfaces	Supported
Digital Audio interface	Supported
ADC interface	Supported



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	10.05.2019 (EC25EFAR06A05M4G)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, GR, HR, HU, ME, MK, NL, PL, RO, SK
Certifying Entity	Deutsche Telekom AG, ITS-IVA
DT Certification Type (Conditions)	Full (Technical issues to address)
Deutsche Telekom Affiliate Country Codes	
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	Cmorgski 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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