Quectel EG25-G

IoT/M2M-optimized
LTE Cat 4 Module

Quectel EG25-G is LTE category 4 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel. 11 LTE technology, it delivers 150Mbit/s downlink and 50Mbit/s uplink data rates. A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB drivers for Windows XP, Windows Vista, Windows 7/8/8.1/10, Linux, Android/eCall) extend the applicability of the module to a wide range of M2M and IoT applications such as industrial router, industrial PDA, rugged tablet PC, video surveillance, and digital signage.

Key Benefits

- LTE category 4 module optimized for M2M and IoT applications
- Worldwide LTE, UMTS/HSPA+ and GSM/GPRS/EDGE coverage
- Multi-constellation GNSS receiver available for applications requiring fast and accurate fixes in any environment
- Feature refinements: supports DFOTA*, eCall and DTMF
- MIMO technology meets demands for data rate and link reliability in modem wireless communication systems
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Variant for Global
EG25-G*
TDD:B3/B39/B40/B41
GSM: B2/B3/B5/B8

Data
LTE:
LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL)
LTE TDD: Max 130Mbps (DL)/Max 35Mbps (UL)
UMTS:
DC-HSUPA: Max 42Mbps (DL)
HSUPA: Max 5.76Mbps (UL)
WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL)
GSM:
EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL)
GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)

Voice
Speech Codec Modes:
HR/FR/EFR/AMR/AMR-WB
Echo Arithmetic:
Echo Cancellation/Noise Reduction
Audio:
Digital Audio and VoLTE (Voice over LTE) (Optional)

Interfaces
USB 2.0 with High Speed up to 480Mbps
Digital Audio through PCM (Optional)
1.8V/3.0V (U)SIM Interface
NETLIGHT × 2 (NET_STATUS and NET_MODE)
UART × 2 (Main UART and Debug UART)
RESET
PWRKEY
Solder pads for Primary, Rx-diversity and GNSS
Antennas
ADC
SDIO

Enhanced Features
SDIO Interface for Wi-Fi Function (Optional)
UART/PCM Interfaces for BT4.0 Function*
eCall*
DTMF
Audio Playback/Audio Recording
QuecFile*
(U)SIM Card Detection
DFOTA*:
Delta Firmware Upgrade Over the Air
GNSS:
GPS/GLONASS/BeiDou/Galileo/GQSS (Optional)

Electrical Characteristics
Output Power:
Class 3 (23dBm±2dB) for LTE FDD
Class 3 (23dBm±2dB) for LTE TDD
Class 3 (24dBm+1/3dB) for TD-SCDMA
Class 3 (24dBm+1/3dB) for WCDMA
Class E2 (27dBm±3dB) for EDGE 850/900MHz
1800/1900MHz
Class 4 (33dBm±2dB) for GSM 850/900MHz
Class 1 (30dBm±2dB) for GSM 1800/1900MHz

Consumption:
20uA @Power off
3mA @Sleep, Typ.
22mA @Idle

Sensitivity:
LTE B1: -101.5dBm (10M)
LTE B2: -101dBm (10M)
LTE B3: -101.5dBm (10M)
LTE B4: -101dBm (10M)
LTE B5: -101dBm (10M)
LTE B7: -99.5dBm (10M)
LTE B8: -101dBm (10M)
LTE B12: -101dBm (10M)
LTE B13: -100dBm (10M)
LTE B20: -102.5dB (10M)
LTE B28: -102dBm (10M)
WCDMA B1: -110dBm
WCDMA B2: -110dBm
WCDMA B4: -110dBm
WCDMA B5: -110.5dBm
WCDMA B8: -110.5dBm
GSM: -109dBm
DCS: -109dBm

Software Features
USB Serial Driver:
Windows 7/8/8.1/10, Windows CE 5.0/6.0/7.0*,
Linux 2.6.3.x/4.1~4.14, Android 4.x/5.x/6.0/7.x
RIL Driver:
Android 4.x/5.x/6.0/7.x
NDIS Driver:
Windows 7/8/8.1/10
ECM Driver*:

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