

LE910Q1

LTE Cat 1 bis 10/5 Mbps



Product Description

The LE910Q1 is an industrial-grade, cost-optimized 3GPP Release (Rel) 14 LTE Cat 1 bis module. It is ideal for multiple IoT applications that need data transmission, including: asset tracking, vehicle telematics and remote monitoring.

It is also suitable for devices that require global deployment, and even mobility across all continents, including North America.

LTE Cat 1 bis is a proven and affordable technology. It is ideal for IoT applications that need higher performance compared to Cat M1 and NB-IoT in terms of:

- Data rate
- Latency
- Mobility

Mobile network operators (MNOs) worldwide estimated they will continue to operate and support LTE Cat 1 bis for many years. It is also the best fit for IoT deployments in regions where 3GPP cellular low-power wide-area (LPWA) technologies are not yet activated.

Using one antenna brings significant cost savings compared to LTE Cat 1, which requires two antennas. It allows overall device dimension reduction and makes it possible to serve IoT applications with stringent size requirements.

The LE910Q1 is a member of Telit Cinterion's flagship xE910 module family. It delivers 4G radio access technology in the 28.2 x 28.2 x 2.6 mm form factor. The Telit Cinterion xE910 unified form factor family comprises 2G, 3G and 4G products that share a form factor and electrical and programming interfaces. This allows developers to implement a "design once, use anywhere" strategy.

AVAILABLE FOR

[EMEA](#)

[North America](#)

[LATAM](#)

[APAC](#)



LE910Q1

Variants

LE910Q1-WW

LE910Q1-WWG

LE910Q1-SN

LE910Q1-SNG

LE910Q1-SF

Market	Global	Global	North America	North America	North America
Frequencies					
4G Bands (MHz)	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B66, B34, B38, B39, B40, B41	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B66, B34, B38, B39, B40, B41	B2, B4, B5, B12, B13, B66	B2, B4, B5, B12, B13, B66	B2, B4, B5, B12, B13, B14, B66
GNSS	-	Yes	-	Yes	-

Product Features

- LTE FDD Cat 1 bis 3GPP Rel 14 compliant
- Single LTE antenna
- Built-in UDP, TCP, PPP, HTTP, HTTPS NTP, FTP stack
- IPv4/IPv6 stack
- Control via AT commands according to 3GPP
- TS 27.005, 27.007 and Telit Cinterion custom AT commands
- Wi-Fi scan
- Embedded GNSS (GPS, GLONASS, Galileo, Beidou, IRNSS, QZSS) only LE910Q1-WWG/SNG variants

Hardware and Electrical Specifications

- Dimensions 28.2 x 28.2 x 2.6 mm
- 181-pin LGA interface
- 10 I/O ports (@ 1.8 V), including multifunctional I/Os
- USB 2.0 HS
- UART
- SPI
- I2C
- 1.8 V/3V SIM interface
- Industrial temperature range: - 40° C to +85° C
- REACH and RoHS compliant
- Output power:
 - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage range:
 - Nominal: 3.8 V dc
 - Range: 3.4-4.2 V dc

Data

LTE Cat 1 bis

- Uplink up to 5 Mbps
- Downlink up to 10 Mbps

Approvals

- FCC/ISED, PTCRB, RED, GCF, RCM
- AT&T, Verizon

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