LE910T1

LTE Cat 1 bis 10/5 Mbps

Product Description

The LE910T1 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
- Remote monitoring.

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 estimate 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 LE910T1 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 2.4 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

North America

LE910T1

Variants

	LE910T1-SN
Market	North America
Frequencies	
4G Bands (MHz)	B2, B4, B5, B12, B13, B25, B66 B71

Product Features

- LTE FDD Cat 1 bis 3GPP Rel 14 compliant
- Single LTE antenna
- Built-in UDP, TCP, PPP, HTTP, HTTPS, FTP stack
- IPv4/IPv6 stack
- Control via AT commands according to 3GPP
- TS 27.005, 27.007 and Telit Cinterion custom AT commands

Hardware and Electrical Specifications

- Dimensions 28.2 x 28.2 x 2.4 mm
- 181-pin LGA interface
- 10 I/O ports (@ 1.8 V), including multifunctional I/Os
- USB 2.0 HS
- UART
- I2C
- 1.8 V 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: 3.2 to 4.5 V dc

Data

LTE Cat 1 bis

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

Approvals

- FCC, PTCRB

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[02.2026]

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