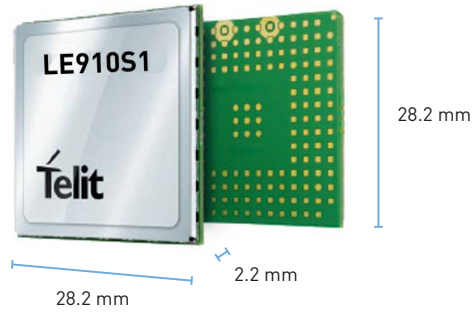


LE910S1

LTE Cat.1 10/5 Embedded



Product Description

The LE910S1-EU is an industrial-grade, cost-optimized LTE Cat 1 bis module ideal for IoT applications that require to transmit data and voice, including devices that need to move around, without any roaming restriction.

Fallback to 2G technology is also supported to connect devices even in those remote areas where LTE networks have not been rolled out yet and support voice use cases in the absence of Voice over LTE (VoLTE).

With a single antenna for reception, LTE Cat 1 bis is a well-proven, widely deployed and affordable solution for IoT applications that need a smooth migration from legacy 2G and 3G cellular technologies as networks are being switched off but still need higher performance compared to Cat M1 and NB-IoT in terms of data rate, latency, mobility and voice support.

LTE Cat 1 bis is predicted to be supported by mobile network operators worldwide for a long time, even after the 5G launch. It is also the best fit for IoT deployments in those regions where the new 3GPP low-power wide-area (LPWA) technologies have not been activated yet.

The use of a single antenna brings significant cost savings compared to LTE Cat 1 with two antennas. It allows for the reduction of the overall device dimensions, making it possible to serve IoT applications with stringent size requirements.

The option of an embedded GNSS receiver makes the LE910S1-EU a perfect, all-in-one solution for tracking use cases. Cellular-based positioning needs to be complemented with precise GNSS location capabilities better accuracy.

The LE910S1-EU is a new member of Telit's flagship xE910 module family delivering 4G radio access technology in the 28.2 × 28.2 × 2.2 mm family form factor. The Telit xE910 Unified Form Factor Family comprises 2G, 3G and 4G products sharing a common form factor as well as electrical and programming interfaces that allow developers to implement a "design once, use anywhere" strategy.

AVAILABLE FOR

EMEA

**Complete,
Ready-to-Use Access
to the Internet of Things**



LE910S1-EU

Market	EMEA
Frequencies	
4G bands (MHz)	B1(2100), B3(1800), B7(2600), B8(900), B20(800), B28A(700)
3G bands (MHz)	-
2G bands (MHz)	B3(1800), B8(900)

LE910S1

Product Features

- LTE FDD Cat.1. 3GPP release 9 compliant
- Single LTE antenna
- VoLTE support
- SMS over IMS
- Built in UDP/TCP/PPP/HTTP/HTTPS/NTP/MQTT/FTP stack
- IPv4/IPv6 stack
- Control via AT commands according to 3GPP
- TS 27.005, 27.007 and Telit Custom AT commands
- SIM application Tool Kit 3GPP TS 51.014
- GNSS support

Data

LTE Cat. 1

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

Environmental

- Dimensions 28.2 x 28.2 x 2.2mm
- Temperature Range Industrial: -40° C to +85° C
- REACH and RoHS compliant

Interfaces

- 181-pin LGA interface
- 10 I/O ports (@1.8V) including multifunctional I/Os
- USB 2.0 HS
- UART
- SPI
- I2C
- 1.8 V / 3V SIM interface

Approvals

- RED/GCF (Europe)

Electrical & Sensitivity

- Output power
 - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage range:
 - Nominal: 3.8 VDC
 - Range: 3.4 - 4.2 VDC

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