

ELS63

LTE Cat 1 bis 10/5 Mbps



Product Description

The ELS63 is an industrial-grade, cost-optimized 3GPP Release (Rel) 14 LTE Cat 1 bis module. It specifically aims at data-only IoT applications in the Indian market, such as smart metering and remote monitoring. It is also suitable for applications that require full mobility, like asset tracking and vehicle telematics.

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

- Data rate
- Latency
- Mobility

Mobile network operators (MNOs) in India 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 areas where 3GPP cellular low-power wide-area (LPWA) technologies are not widely supported.

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 ELS63 is a member of Telit Cinterion's flagship Ex module family. It delivers 4G radio access technology in the 27.6 x 18.8 x 2.4 mm form factor. The Telit Cinterion Ex unified form factor family comprises products that share a form factor and electrical and programming interfaces. This allows developers to implement a "design once, use anywhere" strategy.

AVAILABLE FOR

India



ELS63

Variants

ELS63-I

Market	India
Frequencies	
4G Bands (MHz)	B1, B3, B5, B8, B40, B41
GNSS	Optional

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

Hardware and Electrical Specifications

- Dimensions 27.6 x 18.8 x 2.4 mm
- 114-pin LGA interface
- 10 I/O ports (@ 1.8 V), including multifunctional I/Os
- USB 2.0 HS
- UART
- SPI
- I2C
- 1.8 V/3 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: 3.4-4.2 V dc

Data

LTE Cat 1 bis

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

Approvals

- RED, GCF

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