

Telic LT910-EUbis

LTE Cat.1 bis Terminal for cost-optimized application

The LT910-EUbis is a compact and robust IoT terminal designed for the use in the LTE network with fallback to the GSM network. The device is based on the Telit LE910R1-EU module and is an industrial-grade, cost-optimized LTE Cat 1bis Terminal for the use in the European region.

The terminal provides industrial standard interfaces and provides the ability for a safe, fast and reliable data transfer. The integrated power-saving mode supports the use in applications where low power consumption is required.

The LT910-EUbis terminal is ideal for use cases that require higher performance compared to Cat M1 and NB-IoT in terms of data rate, latency and mobility.

Key features

- Based on Telit LTE Cat. 1 bis module LE910R1-EU with GSM fallback
- Interfaces: Power supply; SIM card holder lockable; FME antenna connector; RS232 (V.24/V.28) on Sub-D; USB
- Supply voltage: 7-32V DC
- Operation temperature: -30 °C - +75 °C
- Support of low-power mode
- Robust & compact housing for industrial use
- Housing is mechanically compatible with GT910-G, HT910-E (G), LT910-WW (E), NT910-G
- Firmware Over-The-Air (FOTA) Update
- Optional variants on request: e.g. USB powered
- Extensive range of accessories

Sample applications

- Monitoring of vending machines
- Monitoring of data from industrial plants
- Intelligent control and monitoring of power grids
- Transmission of meter readings from electricity, gas, and water meters
- Live transmission of video images
- Monitoring of heating, ventilation and air conditioning



Technical specification

General features

- Module designation: Telit LE910R1-EU
- LTE FDD Cat.1 bis, 3GPP release 10 compliant
- **4G frequency bands:** B1/B3/B7/B8/B20/B28
- **2G frequency bands:** B3/B8
- Supply voltage range: 7-32V DC
- Power consumption (@12V)
 - Active Mode (AT+CFUN=1): ~15,7mA
 - Sleep Mode (AT+CFUN=5, DTR low): ~1,8mA
- Operational temperature range: -30 °C to + 75 °C
- IP protection class: IP40
- Dimensions: 77 x 66 x 26 mm
 - Weight: approx. 91g

Data transmission rates

- LTE Cat. 1 bis
 - Uplink up to 5 Mbps
 - Downlink up to 10 Mbps

Functionality	Interfaces	Approvals
<ul style="list-style-type: none"> ▪ 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 custom AT commands ▪ SIM application Tool Kit 3GPP TS 51.01 	<ul style="list-style-type: none"> ▪ Power connector 6P6C modular jack ▪ RS-232 interface DSUB 9-pin female ▪ USB 2.0, connector mini USB ▪ Antenna connector FME (male) ▪ SIM card holder (Mini) - 1.8V and 3.0 V ▪ SIM chip option ▪ 3 Status LEDs 	<ul style="list-style-type: none"> ▪ CE ▪ WEEE, RoHS and REACH compliant

Accessories (example)



Power supply



Stub antenna



Roof screw antenna



Magnetic base antenna