LT910 E

LTE Cat. 1 Terminal for M2M Applications with GSM Fallback

The LT910 E is the first industrial-grade M2M Terminal based on the Telit module LE910 EU1 module which supports both LTE Category 1 as well as GSM/GPRS technologies specifically for Europe.

The LT910 E Terminal is of particular interest for customers who wish to ensure long-term investment protection for their M2M applications at a cost-attractive level. The extensive coverage which the current GSM networks provide ensures that the terminal can be deployed today almost anywhere in Europe. It is the terminal of choice if you want to avoid costly hardware exchanges or upgrades that might otherwise become necessary as a result of a migration of 2G sites to LTE which might occur sometime in the future.

By supporting data rates comparable to HSPA, the LT910 E is also suitable for implementing a variety of broadband applications, e.g. for Point-of-sale (POS) terminals or for security applications. With the integrated Telit Module, advanced applications can also be realized that require location information provided by the mobile network. The device supports key interfaces which are used in industrial grade applications, such as RS232 and USB 2.0, and enables systems integrators to deploy their own applications developed in the programming language C.
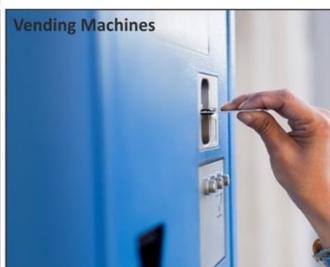
Key Benefits

- Long-term investment protection at an affordable pricing level.
- Supports applications requiring data rates comparable to HSPA.
- Use advanced features such as GSM-based positioning to capture the location of machine being supervised.

Key Features

- LTE FDD Cat. 1 for EU bands, 3GPP Rel-9 compliant
- Dualband 900/1800 MHz GSM/GPRS
- Hayes & 3GPP compliant AT command set
- FOTA
- GSM-based positioning and GSM jamming detection
- RS232 & USB 2.0 interfaces

Sample Applications

- Any M2M applications (e.g. POS terminals, vending machines …) requiring investment protection of 10+ years.
- High-bandwidth applications in the areas of security, digital signage and POS applications.

EFT/ POS and Vending

Security Applications

Electricity, Gas and Water

Vending Machines

eHealth Applications

Digital Signage

Wireless Features

- Module Name: Telit LE910-EU1
- 2G Frequency Band: 900 / 1800 MHz
- GPRS & EDGE Class 12
- EDGE Uplink / Downlink Data Rate: 237 kbps / 237 kbps
- LTE Bands: B1 (2100), B3 (1800), B7 (2600), B8 (900), B20 (800)
- LTE Category: Cat. 1
- LTE Downlink: max. 10 Mbps
- LTE Uplink: max. 5 Mbps
- Output Power:
  - Class 4 (2W) for GSM900
  - Class 1 (1W) for GSM1800
  - Class 3 (0.2W, 23 dBm) for LTE
- USSD
- SMS: Text and PDU mode, Cell Broadcast, SMS over GPRS
- SIM Access Profile
- Additional Wireless Features: DARP

Hardware Features

- IP Protection: IP40
- Memory: 2 MB RAM / 5 MB Flash (module)
- SIM Card Holder: 1x (1,8/3 Volt)
- SIM Chip Option
- LEDs: 1x GSM/LTE Status +2x Configurable
- Real-time Clock with alarm functionality
- Mounting: Screws; DIN Rail (accessory)
- Type Approvals: CE

Optional Features: We can develop customized terminals according to your specialized requirements. Please contact us to discuss your requirements.

Software

- AT Command Set: Hayes Compliant, TS 27.005, 27.007 and Telit custom AT
- Programming Language: C APIs for Telit AppZone
- Firmware Update: FOTA
- SIM Application Toolkit
- TCP/IP Stack: TCP, UDP, ICMP, HTTP, DNS, FTP, SSL, SMTP
- Cellular Positioning: Telit IoT Locate
- Jamming Detection

Connectors

- D-Sub (9-pin): 1x Female (RS232)
- USB: 1x Mini-USB (USB 2.0)
- RJ11: 1x Power + IOs (1x Analogue Input)
- FME: 1x Male (Antenna)

Power Management

- Voltage Range: 5V - 32V
- Power Consumption (Idle Mode): ~ 12 mA (@ 12V) (*)
- Power Consumption (Low Power Mode): ~2 mA (@ 12V) (*)

Hardware Characteristics

- Operating Temperature: -30°C to + 80°C
- Dimensions: 77x66x26 mm
- Weight: 91g

(*) Measurement averaged (including peaks) over a minimum of 1 minute measurement interval.

Power Supply

RS232 Cable

DIN Rail

Stub Antenna

Rectangular Antenna

Roof Antenna

Magnetic Antenna