Telic NT910-G IoT terminal

LTE Cat. M1 / NB1 terminal for industrial applications

The NT910-G is a compact and robust IoT terminal designed for the use in the LTE network, as well as NB-IoT with fallback to the GSM / GPRS network. The device is based on the Telit ME910C1-WW module and supports a large number of LTE frequency bands and therefore can ideally be used in applications that could not be reached via mobile radio before.

The terminal provides industrial standard interfaces and guarantees safe, fast and reliable data transfer in the LTE Cat. M1 /NB1 network. The integrated power-saving mode supports the use in applications where low power consumption is required.

The NT910-G terminal is the quickest way to integrate wireless connectivity in your global IoT application.

Key features

- Based on Telit LTE Cat. 1 module ME910C1-WW with GSM / GPRS fallback

- 13 4G frequency bands
- 4 2G frequency brands

- Interfaces: Power supply; SIM card holder lockable; FME antenna connector; RS232 (V.24/V.28) on Sub-D; USB

- Supply Voltage: 5-32V 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-E

- 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

- Monitoring of heating, ventilation and air conditioning

Technical specification

General features

- Module designation: ME910C1-WW (Telit)
- LTE UE Category M1/NB1, 3GPP release 13 compliant
- **4G frequency bands:** B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B20/B28
- **2G frequency bands:** B2/B3/B5/B8
- Supply voltage range: 5-32V DC
- Power consumption (@12V)
  - Active Mode: ~13mA
  - Sleep Mode: ~3mA
- Operational temperature range: -30°C to + 75°C
- IP protection class: IP40
- Dimensions: 77 x 66 x 26mm
- Weight: approx. 91g

Data transmission rates

- LTE Cat. M1
  - Uplink up to 375 Kbps
  - Downlink up to 300 Kbps
- LTE Cat. NB1
  - Uplink up to 62,5 Kbps
  - Downlink up to 21 Kbps
- EGPRS (2G fallback)
  - Uplink up to 236 Kbps
  - Downlink up to 296 Kbps

Functionality	Interfaces	Software	Approvals
- IPv4/IPv6 stack with TCP and UDP protocol - Control via AT commands according to 3GPP TS27.005, 27.007 and customized AT commands - SIM application Tool Kit 3GPP TS 51.01 - OMA light weight M2M (LWM2M) - Optional embedded GNSS (GPS, GLONASS, Beidou, Galileo)	- 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 3.0V - SIM chip option - 3 Status LEDs	- Telit application development environment: AppZone C	- CE - WEEE, RoHS and REACH compliant

Accessories (example)

Power supply

Stub antenna

Roof screw antenna

Magnetic base antenna