

Telic NT910-G1 IoT terminal

LTE Cat. M1 / NB2 terminal for industrial applications

The NT910-G1 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 ME910G1-WW module and is tailored for low-data throughput IoT applications, exceeding market demands for optimized power consumption and enhanced quality of coverage.

The terminal provides industrial standard interfaces and guarantees safe, fast and reliable data transfer in the LTE Cat. M1/NB2 network. Conformity with 3GPP Rel. 14 means that the device is 5G-ready.

The NT910-G1 is ideal for enabling the quick, global implementation of LTE technology in which low cost and low power are more relevant than high speed.

Key features

- 5G-ready
- Based on Telit LTE Cat. 1 module ME910G1-WW with GSM / EGPRS fallback
- 18x 4G frequency bands
- 4x 2G frequency bands
- 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 LT910-WW, NT910-G, LT910-EUbis
- 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: ME910G1-WW (Telit)
- LTE UE Category M1/NB2, 3GPP Rel. 14 compliant
- 4G frequency bands:**
B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B71/B85
- 2G frequency bands:**
B2/B3/B5/B8
- Supply voltage range: 7-32V DC
- Power consumption (@12V)
 - Active Mode (AT+CFUN=1): ~9,9mA
 - Sleep Mode (AT+CFUN=5, DTR low): ~1,7mA
- 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 1 Mbps
 - Downlink up to 588 Kbps
- LTE Cat. NB2
 - Uplink up to 160 Kbps
 - Downlink up to 120 Kbps
- EGPRS (2G fallback)
 - Uplink up to 210 Kbps
 - Downlink up to 264 Kbps

Functionality	Interfaces	Software	Approvals
<ul style="list-style-type: none"> 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) 	<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 3.0V SIM chip option 3 Status LEDs 	<ul style="list-style-type: none"> Telit application development environment: AppZone C 	<ul style="list-style-type: none"> CE WEEE, RoHS and REACH compliant

Accessories (example)



Power supply



Stub antenna



Roof screw antenna



Magnetic base antenna