

# HE910T-3G

## HE910T-3G

HSPA+ Terminal



### Description

The HE910T-3G terminal is a complete encased modem solution which combines the access to digital communication services in UMTS, HSPA, GSM, GPRS and EDGE networks.

HE910T-3G includes features like HSDPA 21.0 Mbps (Cat 14), HSUPA 5.7 Mbps (Cat 6), EGPRS Class 33, digital voice interface, circuit switched data transfer, phonebook and SMS support, embedded TCP/IP protocol stack and custom Telit AT commands.

HE910T-3G offers extended operating temperature, integrated TCP/IP stack, direct control by standard serial RS-232 interface or USB 2.0 interface, and with a broad supply voltage range (5-32 V DC), the HE910T-3G terminal is a complete stand alone solution for m2m applications that require high speed data exchange.

HE910T-3G is provided with Windows and Linux drivers that significantly ease the integration in existing applications.

HE910T-3G, support Over-the-Air firmware update by means Premium FOTA Management.

HE910T-3G can be provided with Windows, Linux and WinCE CDC Serial USB drivers and also with Modem Drivers.

### Specifications - Mechanical

- Dimensions: 85 x 70 x 33 mm
- Weight: 140 grams

### Key Features

- HSPA+ data up to 21.0 Mbps downlink / 5.76 Mbps uplink,
- Embedded Python Version 2.7.2 ,
- USB Interface (Mini-B Receptacle Connector),
- RS232 interface (DB9-Female),
- Analog Audio Support (2.5mm jack, Mono-Mic & Mono-Ear),
- 2 Digital Inputs, 2 Digital Outputs and 1 ADC Connections on GPIO socket.

### Product Features

- Supported bands
  - 4 Bands GSM / GPRS / EDGE: 850 / 900 / 1800 / 1900 MHz
  - 5 Bands UMTS / HSPA: 800/850, 900, AWS1700, 1900, 2100 MHz,
- SIM Access Profile,
- Quad Band GPRS and EDGE class 33,
- Control via AT commands,
- Serial port multiplexer 3GPP TS27.010,
- SIM application Tool Kits 3GPP TS 51.014,
- Built in UDP/TCP/FTP/SMTP stack,
- Extended temperature range,
- Status and Power Leds.

# HE910T-3G



## GPS RECEIVER

- Frequency Band: GPS(L1)
- Standarts: NMEA
- Sensitivity:
  - Acquisition: -147 dBm
  - Navigation: -161 dBm
  - Tracking: -166 dBm
- Positional Accuracy (CEP50): 3m
- Time to First Fix:
  - Hot Start: 1.8 s
  - Cold Start: <42 s

## Interfaces

- GPIO Socket (2 outputs, 2 inputs, 1 ADC)
- D-type 9 pin RS-232 connector,
- Mini USB-B Receptacle,
- SMA female, 50 Ohm RF connector,
- 2.5mm jack (Mono Mic, Mono Ear),
- Power Socket (PWR, GND, RST),
- On board SIM card holder (Push-Push Type)

## Data

- HSDPA
  - Downlink up to 21 Mbps (penta-band variants),
  - Uplink up to 5.76 Mbps,
  - WCDMA up to 384kbps downlink/uplink.

## EDGE

- Downlink up to 296 kbps,
- Uplink up to 236.8 kbps.

## GPRS

- Downlink up to 107 kbps,
- Uplink up to 85.6 kbps.

## SMS

- Point-to-point mobile originated and mobile terminated SMS,
- Concatenated SMS support,
- SMS cell broadcast,
- Text and PDU mode,
- SMS Over GPRS.

## Electrical

- Input Voltage Level →
  - 9 -32VDC @ 1.2 A min
- Output power →
  - Class 4 (2 W, 33 dBm) @ GSM 850 / 900
  - Class 1 (1 W, 30 dBm) @ GSM 1800 / 1900
  - Class 3 (0.25 W, 24 dBm) @ UMTS
  - Class E2 (0.5 W, 27 dBm) @ EDGE 850 / 900
  - Class E2 (0.4 W, 26 dBm) @ EDGE 1800 / 1900
- Sensitivity →
  - -108 dBm @ UMTS
  - -107 dBm @ GSM 850 / 900 MHz
  - -106 dBm @ DCS1800 / PCS1900 MHz

## Python\* application resources

- Python\* version= 2.7.2
- Python\* script interpreter (module takes the application code directly in the Python\* language)
- Memory: 2.0 MB of NV memory for the user scripts and 2.0 MB RAM for the Python\* engine usage

