Telit

	HE910-GL	HE910-EUR	HE910-EUD	HE910-NAR	HE910-NAD
Market	Global	EMEA/APAC/ Latin America	EMEA/APAC/ Latin America	North America	North America
HSPA+ Upload (Mbps)	5.76	5.76	5.76	5.76	5.76
HSPA+ Download (Mbps)	7.2	7.2	7.2	7.2	7.2
Frequencies					
UMTS | HSPA+ bands (MHz)	800/850, 900, AWS 1700, 1900, 2100	800/850, 900, 2100	800/850, 900, 2100	800/850, AWS1700, 1900	800/850, AWS1700, 1900
Features					
GSM | GPRS | EDGE Quad-band	•	•	•	•	•
Rx Diversity					
Data	•	•	•	•	•
Voice	•			•	

HE910 Series

Product Features

- Supported frequencies
  - GSM | GPRS | EDGE: 850, 900, 1800, 1900
  - UMTS | HSPA: 800/850*, 900, AWS1700, 1900, 2100 MHz

    * Bands B6 and B19 (800 MHz) are a subset of B5 (850 MHz) and supported as well.
- HSPA+ data up to 21.0 Mbps downlink / 5.76 Mbps uplink
- Quad Band GPRS and EDGE
- Optional GPS
- Rx Diversity
- Extended temperature range:
specify temp range -40 +85°C
- 3GPP release 7 compliant
- Control via AT commands according
to 3GPP TS 27.005, 27.007 and Telit custom AT commands
- Serial port multiplexer 3GPP TS27.010
- SIM application Tool Kits 3GPP TS 51.014
- Built in UDP/TCP/FTP/SMTP stack
- Digital voice and SMS
- IP stack with TCP and UDP protocol
- eCall compliant
- Standard and extended AT command set

Data

HSPA category 6 in uplink and up to category 14 in downlink
- Uplink up to 5.76 Mbps
- Downlink up to 21.0 Mbps (high-end variants)
- Downlink up to 7.2 Mbps (low-end variants))

Environmental

- Dimensions 28.2 x 28.2 x 2.2 mm

Optional GPS Receiver

- SUPL 1.0
- High sensitivity for indoor reception, better than -165 dBm with A-GPS
- GPS Cold Start Autonomous (acquisition sensitivity) -147 dBm
- GPS Hot Start Autonomous -161 dBm
- GPS tracking mode -166 dBm
- Accuracy 3 m
- TTFF from Cold Start 42 s
- TTF from Warm Start 30 s
- TTF from Hot Start 1.8 s
- Supports multi-channel GPS
- L1 1575.42 MHz
- GPS NMEA 0183 output format
- Datum WGS-84
- Dedicated GPS AT commands

Interfaces

- 10 I/O ports maximum including multifunctional I/Os
- I2S for digital Audio interface
- USB 2.0 HS
- 2 UART
- SPI
- I2C
- 1.8 V / 3 V SIM interface

Approvals

- FCC and IC
- CCF57 Level 2
- CDMA Carrier Approvals
- RoHS
- CCC (China)

Electrical & Sensitivity

- 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
- Supply voltage
  - Nominal: 3.8 VDC
  - Range: 3.4 - 4.2 VDC
- Sensitivity
  - 111 dBm @ UMTS
  - 109 dBm @ GSM 850 /900 MHz
  - 110 dBm @ DCS1800 /PCS1900 MHz

Software

- Python* version = 2.7.2
- Python* script interpreter (module takes the application code directly in the Python* language)
- Memory: 2MB of NV memory for the user scripts and 2 MB RAM for the Python engine usage

AppZone Application Resources

- Programming language: C
- IDE: Eclipse
- Dedicated File System: 5 MB
- Separate App. RAM Space: 2 MB

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