Telit

UE910 Series

HSPA 7.2/5.76 Embedded

28.2 mm

2.2 mm

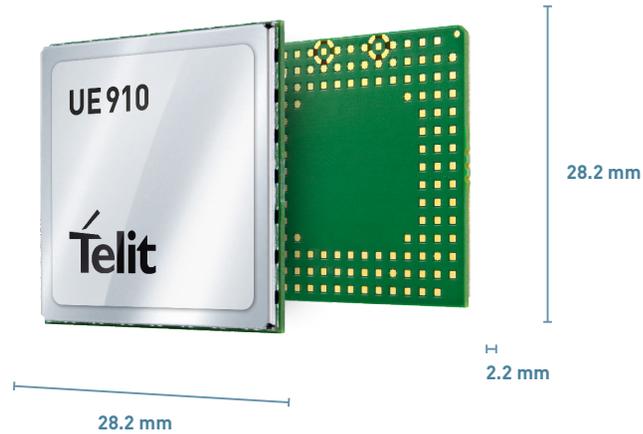28.2 mm

Product Description

The UE910 is an HSPA 7.2 Mbps technology member of the xE910 family. The UE910 series includes low-cost, dual-band 3.5G variants offered in the xE910 LGA unified form factor positioned for global applications not requiring global coverage, as well as a penta-band 3G global variant. This makes the series particularly suitable for those designated fixed-wireless such as utility metering, and home and commercial security, and also for those with requiring mobility in different regions, or logistic deployments across the globe.

The UE910 offers voice-capable variants, featuring also analog audio in the case of NAR and EUR variants, as well as data-only models

Key Benefits

- Design once and deploy globally, thanks to xE910 unified form factor
- Band groups available for global coverage
- LGA package ideally suited for low profile integrated solutions, reducing cost in high-volume applications, as well as saving space and weight in portable devices
- Perfect platform for regional applications such as vending systems, POS, smart grid, security and surveillance
- Voice capable variants for applications requiring voice communications

Family Concept

The xE910 Unified Form Factor family is comprised of pin-to-pin compatible modules in Telit's broadest range of cellular air interfaces and band combinations making it a pillar of the concept "design once and deploy globally".

A one-time design and integration effort enables worldwide or regional device re-use across different data rates and wireless technologies with air interfaces in GSM | GPRS, UMTS | HSPA+, 1xRTT, EV-DO, and LTE (pre-release).

The xE910 family was conceived to enable applications to be easily upgraded in a number of ways. For example: migrating from 2G to 3G or 4G; or upgrading from 2 bands to 3, 4, or more. The family fully preserves the core design of the application or device from launch to phase-out with modules packaged in a common 28.2 x 28.2 mm LGA footprint. It is recommended for mid to high-volume, compact sized applications.

Telit IoT LOCATE

This product supports IoT LOCATE, a Telit portal-based service that provides a device's position based on observed cellular Cell-IDs. Accessing a database of over 40 million cell-IDs globally, IoT LOCATE can provide a position for every use-case including indoors/underground, outdoors, and boundary situations.

IoT Connectivity and Portal Ready

This product is capable of supporting the extensive suite of Value Added Services IoT Connectivity including Module Management and others which make the management of IoT deployments under mobile networks effective, enhancing profitability and reliability. It is also Portal-ready which means that the AT command library in this module includes a set of high-level commands designed exclusively for quick and hassle-free on-boarding of the device to the portal and to back-end systems and servers. Telit Portal-ready modules powered by deviceWISE make application-level data flows and controls simple to program, maintain and improve.

AVAILABLE FOR

EMEA
North America
Latin America
APAC
Korea
Australia

Complete, Ready to Use Access to the Internet of Things

IoT MODULES   IoT CONNECTIVITY

IoT PLATFORMS   IoT KNOW-HOW

ENABLING END-TO-END IoT SOLUTIONS.

	UE910-GL	UE910-EUR	UE910-EUD	UE910-NAR	UE910-NAD
Market	Global	EMEA / APAC	EMEA / APAC	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)	800/850/900/1900/2100	900 / 2100	900 / 2100	850 / 1900	850 / 1900
GSM | GPRS | EDGE Dual-band	850/900/1800/1900	900 / 1800	900 / 1800	850 / 1900	850 / 1900
Features					
Data	•	•	•	•	•
Voice	•	•		•	

UE910 Series

Product Features

- Supported bands
- GL variants:
  - 4 Bands GSM|GPRS|EDGE: 850/900/1800/1900 MHz
  - 5 Bands UMTS|HSPA: 800/850/900/1900/2100 MHz
- EUx variants:
  - 2 Bands GSM | GPRS | EDGE 900/1800 MH
  - 2 Bands UMTS | HSPA 900/2100 MHz
- NAx variants:
  - 2 Bands GSM | GPRS | EDGE 850/1900 MH
  - 2 Bands UMTS | HSPA 850/1900 MHz
- Optional SIM-chip
- 3GPP release 7 compliant
- Control via AT commands according to 3GPP TS27.005, 27.007 and customized AT commands
- Standard and extended AT command set Approvals
- Serial port multiplexer 3GPP TS27.010
- SIM application Tool Kits 3GPP TS 51.01
- Built in UDP/TCP/FTP/SMTP stack
- Digital or Analog voice and SMS
- IP stack with TCP and UDP protocol

Data

HSPA category 6 in uplink and up to category 8 in downlink
- Uplink up to 5.76 Mbps
- Downlink up to 7.2 Mbps

UMTS
- Uplink/Downlink up to 384 kbps

EDGE
- Uplink up to 236.8 kbps
- Downlink up to 236.8 kbps

GPRS
CSD

Physical & Environmental

- Small dimensions 28.2 x 28.2 x 2.2 mm
- Extended temperature range

Interfaces

- 10 I/O ports maximum including multifunctional I/Os
- I2S for digital audio interface
- USB 2.0 HS, HSIC
- 2 UART
- SPI
- I^2C
- 1.8 V / 3 V SIM interface

Approvals

- RoHS Compliant
- CE, GCF (Europe)
- FCC, PTCRB, IC (North America)

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

Sensitivity

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

AppZone Application Resources

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

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For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all IoT topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing IoT community and exchange experiences.