

## LE 910 Cat.1 Series

LTE Cat.1 10/5 Embedded



### Product Description

The LE910 series expands and it is now featuring a set of variants to address the LTE low category technology. An LTE Cat.1 module, delivering data rates of 10 Mbps downlink and 5 Mbps uplink, is the perfect optimized solution for networks like Verizon and AT&T, the first to support the LTE low category technology with an optimal coverage of the territory. For EMEA/APAC, Telit is proposing also a variant with 2G fallback.

### Key Benefits

- Easy to integrate with peripherals and actuators using USB 2.0 HS, UART and user definable GPIOs
- Ideal platform for IoT applications and mobile data and computing devices with ultra-compact design and extended operating temperature range
- Internet friendly with integrated TCP/IP and UDP/IP stacks, as well as HTTP, SMTP, FTP, SSL
- Simple drop-in migration and technology design reuse path to 2G and 3G with any xE910 module
- Over-the-Air firmware update

### Family Concept

Those LTE low cat. variants are members of Telit's flagship xE910 module family delivering 4G radio access technology in the 28.2 x 28.2 x 2.2 mm family form factor. The Telit xE910 Unified Form Factor Family is comprised of 2G, 3G, and 4G, 3GPP and 3GPP2 products sharing a common form factor as well as electrical and programming interfaces which allows developers to implement a "design once, use anywhere" strategy.

### IoT Connectivity Ready

This product is capable of supporting the extensive suite of Value Added Services from 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
- Japan
- Korea
- Australia

Combine your Cellular module with

Short Range modules



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Complete, Ready to Use Access to the Internet of Things



ENABLING THE IOT IS WHAT WE DO.

	LE910-SV1	LE910-NA1	LE910-EU1
Market	North America (Verizon)	North America (AT&T, T-Mobile)	Europe
<b>Frequencies</b>			
4G bands (MHz)	B2(1900) B4(AWS1700) B13(700)	B12/B13(700), B5(850), B4(AWS1700), B2(1900)	B1(2100), B3(1800), B7(2600), B8(900), B20(800)
3G bands (MHz)		B2(1900) B5(850)	
2G bands (MHz)			B3(1800), B8(900)

## LE910 Cat.1 Series

### Product Features

- Rx Diversity and MIMO DL 2x2
- LTE FDD Cat.1, 3GPP release 9 compliant
- SIM application Tool Kit 3GPP TS 51.014
- Serial port multiplexer 3GPP TS27.010
- SMS over IMS
- Built in UDP/TCP/FTP/SMTP stack
- Control via AT commands according to 3GPP TS 27.005, 27.007 and Telit Custom AT commands

- Temperature Range  
-40°C to +85°C
- REACH and RoHS compliant

- Supply voltage  
- Nominal: 3.8 VDC  
- Range: 3.3 - 4.2 VDC

### Interfaces

- 144-pin LGA Interface
- 10 I/O ports (@1.8V) including multifunctional I/Os
- USB 2.0 HS
- UART
- 1.8 V / 3 V SIM interface
- RF pad, RX Div. & MIMO pad

### Software and Application Development

#### AppZone application resources

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

### Data

#### LTE

- Uplink up to 5 Mbps
- Downlink up to 10 Mbps

### Approvals

- R&TTE, FCC, IC, PTCRB, GCF

### Environmental

- Dimensions 28.2 x 28.2 x 2.2 mm

### Electrical

- Output power  
- Class 3 (0.2 W, 23 dBm) @ LTE



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