# Telit

# LE910 V2 Series

**LTE** 100/50 | **DC-HSPA+** 42.0/5.76 | Embedded

28.2 mm

28.2 mm

2.2 mm
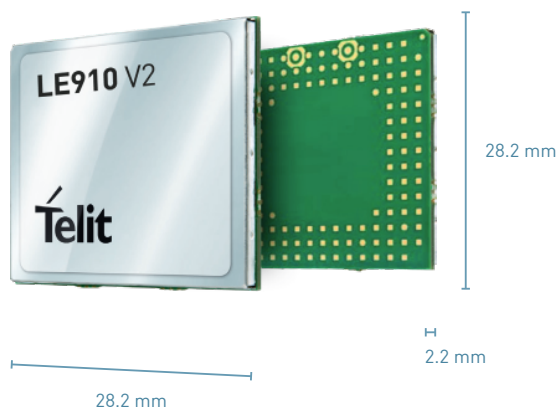
## Product Description

The LE910 V2 introduces the next generation of LTE modules. An LTE 3GPP Release 9 module delivering data rates of 150 Mbps downlink and 50 Mbps uplink. The LE910 V2 is a series with LTE modules featuring 3G/2G fallback and single-mode LTE variants, with no fallback to 3G and 2G networks (the perfect optimized solution for regions with high 4G penetration levels).

## Key Benefits

- Easy to integrate with peripherals and actuators using USB 2.0 HS, UART and user definable GPIOs
- Increased connectivity performance with MIMO 2x2
- Ideal platform for m2m 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
- Simple drop-in migration and technology design reuse path to 2G and 3G with any xE910 module
- Over-the-Air firmware update
- Bundle options with Telit GNSS solutions

## Family Concept

The LE910 V2 is a member 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 programing interfaces which allows developers to implement a "design once, use anywhere" strategy.

## Variants

Six different series of variants are available to fulfill the requirements of North American, Japanese, Australian and European market. Multiband configurations, covering different sets of 4G bands as well as MNO certifications.

## IoT Connectivity and Portal 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

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Korea
Australia

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modules

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to Use Access** to the
Internet of Things

IoT MODULES    IoT CONNECTIVITY    IoT PORTAL

# ENABLING THE IoT
# IS WHAT WE DO.

| | LE910-SV V2 | LE910-NA V2 | LE910-AU V2 | LE910-EU V2 |
|---|---|---|---|---|
| **Market** | North America (Verizon) | North America (AT&T) | Australia (Telstra) | Europe |
| **FREQUENCIES** | | | | |
| **4G bands (MHz)** | B2(1900), B4(AWS1700), B13(700) | B12/B17(700), B5(850), B4(AWS1700), B2(1900), B13(700) | B3(1800), B7(2600), B28(700) | B3(1800), B7(2600), B20(800), B1(2100), B8(900) |
| **3G bands (MHz)** | | B2(1900), B5(850) | | B1(2100), B8(900) |
| **2G bands (MHz)** | | | | B3(1800), B8(900) |

# **LE910** V2 Series

## Product Features

- LTE FDD Cat.4, 3GPP release 9 compliant
- Rx Diversity and MIMO DL 2x2
- 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

## Data

**LTE Cat.4**

- Uplink up to 50 Mbps
- Downlink up to 150 Mbps

**DC-HSPA+ 42 Mbps**
(supported on the variants with 3G fallback)

## Environmental

- Dimensions 28.2 x 28.2 x 2.2 mm
- Temperature Range
  -40°C to +85°C
- REACH and RoHS compliant

## 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

## Approvals

- FCC /IC, PTCRB /GCF , (North America)
- Radio/Telecom Biz Act (Japan)
- RCM (Australia)
- R&TTE / GCF (Europe)

## Electrical & Sensitivity

- Output power
  - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage
  - Nominal:  3.8 VDC
  - Range:    3.3 - 4.2 VDC

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