●● LE910 V2 Series

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

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
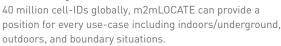
Family Concept

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.

Telit m2mLOCATE

m2mLOCATE is a Telit cloud-based service that provides a device's position based on observed cellular Cell-IDs. Accessing a database of over 40 million cell-IDs globally, m2mLOCATE can provide a position for every use-case including indoors/underground, outdoors, and boundary situations.

m2mAIR Ready

This product is capable of supporting the extensive suite of Value Added Services from m2mAIR Mobile including Module Management and others which make the management of m2m deployments under mobile networks effective, enhancing profitability and reliability. It is also Cloud-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 cloud and to back-end systems and servers. Telit Cloud-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

www.telit.com

Complete, Ready to Use Access to the Internet of Things

Telit Modules + m2mAIR Mobile Value-Added Services including Connectivity

m2mAIR MOBILE

ONE STOP.
ONE SHOP. NOW, INNOVATE!

	LE910-SV V2	**LE910**-NA V2	**LE910**-JN V2	**LE910**-JK V2	**LE910**-AU V2	**LE910**-EU V2
Market	North America (Verizon)	North America (AT&T)	Japan (NTT DoCoMo)	Japan (KDDi)	Australia (Telstra)	Europe
Frequencies						
4G bands (MHz)	B2(1900), B4(AWS1700), B13(700)	B12/B17(700), B5(850), B4(AWS1700), B2(1900) B13(700)	B1(2100), B21(1500), B19(850)	B1(2100), B11(1500), B26(850)	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

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

Software and Application Development

- 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

Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all m2m topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing m2m community and exchange experiences.