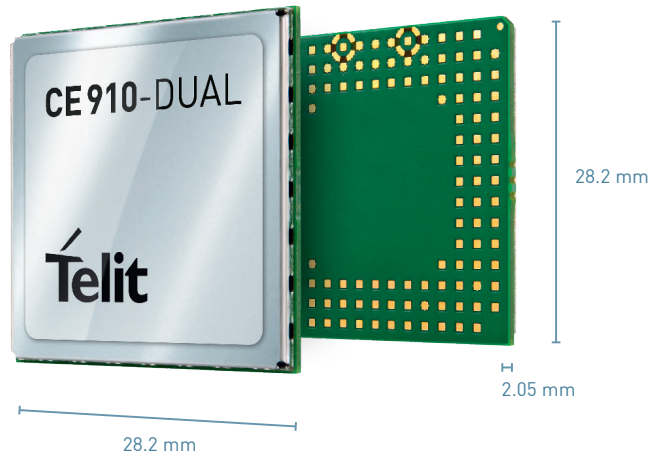


# CE910-DUAL

**CDMA | 1xEV-DO Rev.A** Embedded



## Product Description

The CE910-DUAL is Telit's first 1xRTT module designed in a compact LGA package. It enables reliable and secure CDMA cellular connectivity in any m2m application. The SMT form factor is pin-to-pin compatible with the xE910 family, allowing easy integration of different 2G-4G wireless technologies into the same design.

The CE910-DUAL is the perfect platform for low data throughput applications on CDMA networks, such as telemetry, telematics, smart metering and healthcare.

## Key Benefits

- xE910 LGA Unified Form Factor
- Design once and deploy globally
- 800/1900 MHz 1xRTT support
- 153.6 kbps UL/DL data rates
- Analog and digital audio
- Up to 10 GPIOs, 1 UART + 1 debug, 1 ADC, USB 2.0 FS
- Ideal solution for low throughput wireless data applications, such as telemetry, telematics, smart metering health care and security
- Easy upgrade to high speed EV-DO due to pin-to-pin compatibility with its companion DE910-DUAL

## 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 m2mLOCATE

This product supports m2mLOCATE, 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.

### AVAILABLE FOR

- EMEA
- North America
- Latin America
- APAC
- Korea
- Australia

### Combine your Cellular module with

Short Range modules



GNSS modules



[www.telit.com](http://www.telit.com)

### Complete, Ready to Use Access to the Internet of Things



## CE910-DUAL

### Product Features

- Dual-band CDMA | 1x RTT 800 / 1900 MHz
- Backward compatible with IS-95 A / B
- Standard and Telit Unified AT command sets
- USB and UART Interfaces
- Built in UDP/TCP/IP stack
- Voice support
- 2-way SMS support Performance
- Minimal power consumption
- Various status indications:
  - Unread short message
  - Low battery alert
  - In/Out Range status
- Over-the-air provisioning and device management
- Over-the-air firmware update
- OMA-DM, OTASP, OTAPA (carrier dependant)
- Built in FTP client
- Built in SMTP (email) client
- Embedded TCP/IP stack with server and client functions
- Real Time Clock
- Alarm Management

### Data

#### CDMA

- Air interface IS-95A/B and CDMA 2000
- 1xRTT data up to 153.6 kbps

### Environmental

- Dimensions: 28.2 x 28.2 x 2.05 mm
- Weight: 4.7 grams
- Extended temperature range:
  - 40°C to +85°C (operational)
  - 40°C to +85°C (storage temperature)

### Interfaces

- USB 2.0 FS (12 Mbps), slave only
- Full serial UART
- 2 wire UART (UART2)
- I<sup>2</sup>C
- 1 channel analog Audio
- DVI (Digital Voice Interface)
- Max 10 ports user definable GPIO
- 1-channel A/D

### Approvals

- FCC and IC
- CCF57 Level 2
- CDMA Carrier Approvals
- RoHS

### Electrical & Sensitivity

- Supply voltage:
  - Nominal: 3.8 VDC
  - Range: 3.4 - 4.5 VDC
- Low power consumption
  - Power off: 140 uA
  - Idle mode: 1.1 mA
  - Traffic mode: < 750 mA
- Maximum RF output power:
  - 24.5 dBm [typical]
- Sensitivity:
  - 1900 MHz: < -107 dBm
  - 800 MHz: < -108 dBm



### 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 IoT topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing IoT community and exchange experiences.