

● ● **CE 910-DUAL**

CDMA | 1xRTT 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

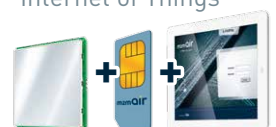
Australia

Combine your Cellular module with

- Short Range modules
- GNSS modules

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Complete, Ready to Use Access to the Internet of Things



Telit Modules + m2mAIR Mobile Value-Added Services including Connectivity



ONE STOP. ONE SHOP. NOW, INNOVATE!



●● 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 (12Mbps), slave only
- Full serial UART
- 2 wire UART (UART2)
- I2C
- 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



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