

CE910-SL

CDMA | 1xRTT Embedded



Product Description

The CE910-SL is a single-band 450 MHz CDMA 1xRTT wireless module. It is specifically designed for M2M applications requiring secure and robust CDMA connectivity. Thanks to the deep indoor propagation of the 450 MHz frequency, this module is ideal for indoor devices, such as smart meters that are often placed in the center of the home. In addition the wide coverage range of the 450MHz band allows wireless services to be provisioned over large areas with a minimal number of base stations.

The CE910-SL compact LGA form factor is pin-to-pin compatible with the xE910 family, allowing re-use of the application with different 2G to 4G wireless technologies.

Key Benefits

- xE910 LGA Unified Form Factor
- Design once and deploy globally
- 450 MHz 1xRTT support
- 153.6 kbps UL/DL data rates
- Up to 10 GPIOs, 1 UART, 1 ADC, USB 2.0 FS
- Ideal solution for low throughput wireless data applications, such as telemetry, telematics, smart metering health care and security

Family Concept

The xE910 Unified Form Factor family comprises of pin-to-pin compatible modules. Telit has the broadest range of cellular air interfaces and band combinations, making it a central pillar of the “design once and deploy globally” concept.

A one-time design and integration effort enables world-wide 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 designed 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 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.

AVAILABLE FOR

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

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Short Range modules



GNSS modules



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CE910-SL

Product Features

- Single-band CDMA | 1x RTT 450 MHz (CDMA BC5)
- Backward compatible with IS-95 A /B
- Standard and Telit Unified AT command sets
- USB and UART Interfaces
- Built in UDP/TCP/IP stack
- 2-way SMS support Performance
- Minimal power consumption
- Various status indications:
 - Unread short message
 - In/Out Range status
- 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 2.35 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
- Max 10 ports user definable GPIO
- 1-channel A/D

Approvals

- R&TTE
- CCF57 Level 2
- CDMA Carrier Approvals
- RoHS

Electrical

- Supply voltage:
 - Nominal: 3.8 VDC
 - Range: 3.4 - 4.5 VDC
- Maximum RF output power:
 - 24.5 dBm [typical]
- Sensitivity:
 - 450 MHz: < -108 dBm



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