

# CL865-SC

**CDMA | 1xRTT** Embedded



## Product Description

The CL865-SC is a single band 800 MHz CDMA | 1xRTT wireless module supporting up/down link data rates up to 153.6 kbps and Telit's smallest CDMA module. Its 24 x 24 mm square QFN form factor is pin-to-pin compatible with GSM | GPRS and UMTS | HSPA modules in the xL865 family.

The CL865-SC extends the Telit xL865 Family enabling integrators and developers to design their applications once and reuse the same design with different 2G - 3G wireless technologies, applying companion products GL865-DUAL V3 and UL865. Moreover, the CL865 further enriches Telit's broad CDMA offering, which now includes both board-to-board connector modules – CC864 Series – and surface mount devices (SMD) with LGA – CE910 Series – and QFN package.

The CL865 is specifically designed to be deployed in APAC CDMA networks using R-UIM card technology, particularly in China. It enables reliable and secure 1xRTT cellular communication, making it an ideal platform for m2m applications requiring robust and proven connectivity, such as telemetry, telematics, smart metering, POS terminals, healthcare and security. Additional features like integrated TCP/ IP and UDP/IP Stack provide extended functionality, adding value to the customer application without adding cost. The extensive interface set, which includes USB, UART, and user definable GPIOs, provides easy integration of peripherals and actuators. The CL865-SC comes with full regulatory approvals for quick deployment in the Chinese market.

## Key Benefits

- Enables integration of very small device packaging
- Allows system integrators to design one application and deploy under CDMA and UMTS operators for better geographic coverage
- R-UIM card technology for the Chinese CDMA market and other APAC CDMA networks

## Family Concept

The Telit xL865 family was conceived to address system integrators and developers needing to start with low volumes (LCC mount) as well as those already running high volumes (VQFN mount). Its ultra-compact package allows integration into very small devices. The family includes products that are pin-to-pin and API compatible in GSM | GPRS, CDMA | 1xRTT and UMTS | HSPA.

### 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



## CL865-SC

### Product Features

- Single-band CDMA | 1x RTT 800 MHz
- Backward compatible with IS-95 A /B
- Standard and Telit Unified AT command sets
- USB and UART interfaces
- R-UIM card technology support
- Built in UDP/TCP/IP stack
- Extended supply voltage range: 3.4 - 4.5 VDC
- Minimal power consumption
- Various status indications:
  - Unread short message
  - Low battery alert
  - 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

### Approvals

- CCC
- SRRC

### Electrical

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

### Data

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

### Environmental

- Dimensions: 24.4 x 24.4 x 2.6 mm
- Weight: 4.7 grams
- Extended temperature range:  
-40°C to +85°C (storage and operating)

### Interfaces

- USB 2.0 FS (12Mbps), slave only
- Full serial UART and two-wire UART
- DVI
- 1 channel analog audio
- Max 8 ports user definable GPIO
- 1 channel A/D
- R-UIM card



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