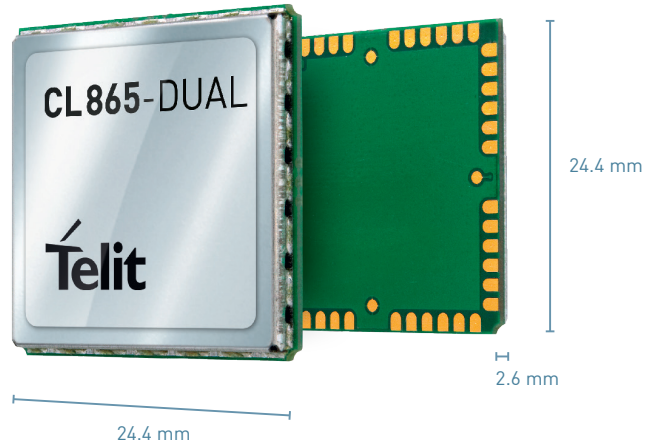


# CL865-DUAL

**CDMA | 1xRTT** Embedded



## Product Description

The CL865-DUAL is a dual band 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-DUAL 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 U.S. CDMA networks. 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-DUAL comes with full regulatory and carrier approvals for quick deployment in the U.S. market.

## Key Benefits

- Enables integration of very small device packaging
- Allows U.S. system integrators to design one application and deploy under CDMA and UMTS operators for better geographic coverage
- Cost effective and long term solution for integrators needing to remain with 2G connectivity in the U.S.

## 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.

## Variants

Operator Specific Variants

### AVAILABLE FOR

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

### Combine your Cellular module with

Short Range modules



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



## CL865-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
- 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
- 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

#### GPRS

- 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

### Approvals

- FCC and IC
- CCF57 Level 2
- CDMA Carriers

### Electrical

- Low power consumption
- Sensitivity:
  - 1900 MHz: < -107 dBm
  - 800 MHz: < -108 dBm
- Maximum RF output power:
  - 24.5 dBm [typical]
- Supply voltage:
  - Nominal: 3.8 VDC
  - Range: 3.4 - 4.5 VDC



### 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.