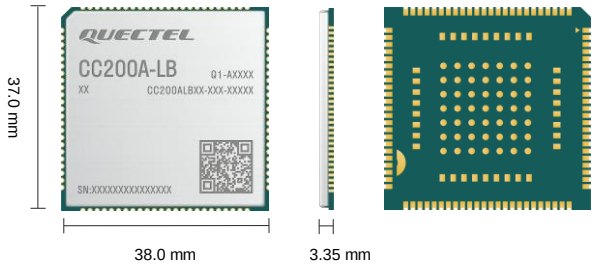
# Quectel CC200A-LB

## Satellite Communication Module



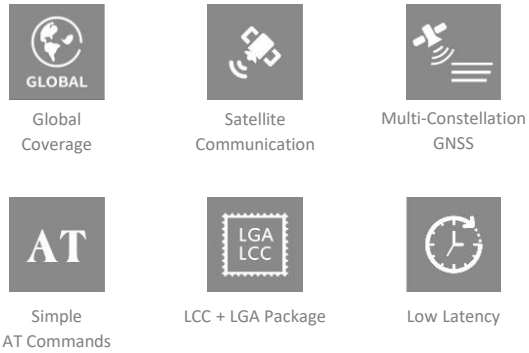

Quectel CC200A-LB is a satellite communication module designed to provide communications in remote areas without cellular network coverage. It provides reliable global connectivity over the IsatData Pro (IDP) satellite service and features two-way communication, low latency, and nearly-real-time reporting capabilities.

The module adopts LCC + LGA package and supports AT command set, which is very easy for customers to integrate and use them.

Quectel CC200A-LB supports a wide range of industrial asset-tracking applications in poor network conditions where the network connectivity is scarce or unavailable, such as transportation, maritime, heavy equipment, mining, oil & gas, and agriculture.

## Key Features

- Global coverage over the Inmarsat GEO constellation
- Two-way communication by IDP service network
- Simple AT commands
- About 20 seconds for 100-byte messages in IDP network
- Multi-constellation GNSS



# Quectel CC200A-LB

| Satellite Communication | CC200A-LB |
|---|---|
| **Region** | Global |
| **Satellite Service** | • Inmarsat GEO<br>• Two-way communication<br>• IsatData Pro (IDP) |
| **Dimensions (mm)** | 37.0 × 38.0 × 3.35 |
| **Temperature Range** | |
| **Operating Temperature** | -35 °C to +75 °C |
| **Extended Temperature** | -40 °C to +85 °C |
| **Frequency Band** | |
| **Satellite Band** | L-Band |
| **Frequency (MHz)** | • Tx: 1626.5–1660.5, 1668–1675<br>• Rx: 1518–1559 |
| **GNSS** | GPS L1/ GLONASS L1/ Galileo E1/ BDS B1 |
| **Certifications** | |
| **Regulatory** | FCC/ IC/ CE/ RCM |
| **Satellite** | Inmarsat Type Approval* |
| **Data Transmission** | |
| **Max. From-Mobile Message Size** | IDP: 6.4 Kbytes |
| **Max. To-Mobile Message Size** | IDP: 10 Kbytes |
| **Typical Latency** | IDP: About 20 seconds for 100 bytes |
| **GNSS Performance** | |
| **TTFF** | • Cold start: 28 s<br>• Warm start: 25 s<br>• Hot start: 1 s |
| **Accuracy** | Autonomous: 1.5 m |
| **Interfaces** | |
| **(U)SIM** | - |
| **UART** | × 2 |
| **I2C** | × 1* |
| **ADC** | × 2 |
| **GPIO** | × 2 |
| **RESET(RESET_N)** | × 1 |
| **SPI** | - |
| **PWM** | - |
| **EVENT_IND** | × 1* |
| **PSM_EINT** | - |
| **I2S** | - |
| **NET_STATUS** | × 1* |
| **WAKEUP_IN** | × 1 |
| **Antenna** | × 1 |
| **Electrical Features** | |
| **Supply Voltage (V)** | • Voltage Range: 5.5–6.5<br>• Typical: 6.0 |
| **Power Consumption (Typical)** | • Satellite data reception: 162.6 mA<br>• Satellite data transmission: 1.69 A<br>• GNSS Mode: 35.95 mA<br>• Deep Sleep Mode: 190 µA |

NOTE:
1.*: Under development.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