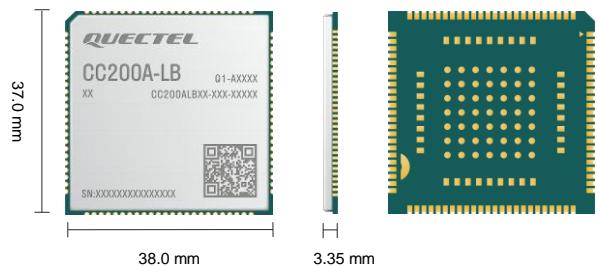


Quectel CC200A-LB

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 to transmit 100-byte messages in IDP network
- ✓ Integrated multi-constellation GNSS to realize fast and accurate positioning in different environments



Global Coverage



Satellite Communication



LCC + LGA Package



Multi-Constellation GNSS



Simple AT Commands



Low Latency

Quectel CC200A-LB

Satellite Communication		CC200A-LB
Region	Global	
Satellite Service	<ul style="list-style-type: none"> Inmarsat GEO Two-way communication IsatData Pro (IDP) 	
Dimensions (mm)	37.0 x 38.0 x 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)	<ul style="list-style-type: none"> Tx: 1626.5–1660.5, 1668–1675 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	<ul style="list-style-type: none"> Cold start: 27 s Warm start: 24 s Hot start: 2 s 	
Accuracy	Autonomous: 2 m	
Interfaces		
(U)SIM	-	
UART	× 2	
I2C	-	
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, typical: 6.0	
Power Consumption (Typical)	<ul style="list-style-type: none"> Satellite data reception: 162.6 mA Satellite data transmission: 1.69 A GNSS Mode: 35.95 mA Deep Sleep Mode: 190 µA 	

Note:

- : Not supported.