

Amphenol

LoRa Module

L202C



Overview

L202C module is a compact, low power, bidirectional RF module for the 150-960MHz frequency band using Semtech's LoRa modulation technology. The module provides ultra-long range spread spectrum communication and high interference immunity whilst minimizing current consumption.

Using L202C in an application minimizes the need for an expensive and time-consuming RF development. Fast time to market is possible with this pre-qualified module.

Key Feature

- -40°C to +85°C
- Voltage range from 2.4 to 3.6 V
- UART, SPI and I²C interface
- Compact size: 14.0mm × 20.0 mm × 2.9 mm

Key Benefit

- High link budget up to 156 dB;
- Multi-types interfaces supported;
- MCU integrated;

Application Interfaces

- ◆ Smart agriculture
- ◆ Automated Meter Reading
- ◆ Smart cities
- ◆ Home, Building, Industrial automation
- ◆ Remote Control
- ◆ Access tracking
- ◆ Wireless Alarm and Security Systems

Features

RF	
Frequency	ISM 868/915 MHz
Spreading Factor	7 to 12
Transmit power	+20 dBm MAX.
Receiver sensitivity	-123dBm @SF=7, Bandwidth=125KHz
	-136dBm @SF=12, Bandwidth=125KHz
Antenna	External antenna
Current Consumption	
TX at idle mode	< 128mA
RX at idle mode	<12mA
Sleep mode	<4 μ A
Electrical Character	
Interfaces	SPI;I2C;UART
Power supply	2.4V to 3.6V
Operation Temperature	-40 to +85°C

Dimension

