

LoRaWAN Communication Module for Smart Metering

This communication module is designed for smart metering and IoT applications. It supports LoRaWAN connectivity for reliable and long-range wireless data transmission.



ADDITIONAL IMAGES



Product Overview

Professional LoRaWAN Communication Solution

The RDK-LoRaWAN communication module is a high-performance wireless bridge designed for seamless integration into single-phase and three-phase smart meters. Utilizing edge calculation and a 32-bit microprocessor, it enables secure, encrypted data transmission and autonomous meter polling. This module is an ideal drop-in replacement for PLC or legacy wireless modules, supporting advanced features like gateway authentication and multi-node synchronization.

Technical Specifications

RF Performance Metrics

19 dBm
Max RF Power

-139 dBm
Receive Sensitivity

Bandwidth Settings

- 125kHz
- 250kHz

Supported Center Frequencies

433MHz, 470MHz, 868MHz, 923MHz

Electrical and Environment

Power Input

12 V

Voltage

400 mA

Current

Environmental Ratings

Parameter	Value
Operating Temperature	-20°C to +65°C
Max Relative Humidity	95%

Compatibility and Features

Compatible Meter Types

Single-phase • Three-phase

Security & Connectivity

- Secure encrypted transmission
- Gateway authentication
- Multi-node anti-collision