

RAK3172 Evaluation Board

Thank you for choosing **RAK3172 Evaluation Board** in your awesome IoT Project! 🎉 To help you get started, we have provided you all the necessary documentation for your product.

- [Quick Start Guide](#)
- [AT Command Manual](#)
- [Datasheet](#)
- [RAK3172-E 3D Model](#)

Product Description

The RAK3172-E is a WisDuo evaluation board for the RAK3172 module, using an STM32WLE5CCU6 SoC chip. It is based on the RAK3372 WisBlock Core, compatible with the RAK5005-O base board. It provides easy access to the important pins of the RAK3172 module, simplifying development and testing. It also allows connection of other modules to the base board slots, enabling the building of complete IoT projects with integrated connectors for battery and solar panel, plus an onboard charging circuit.

This module complies with LoRaWAN 1.0.3 specifications (Classes A, B, and C). It also supports LoRa point-to-point (P2P) communication, facilitating the quick implementation of customized long-range LoRa networks.

Product Features

- Based on **STM32WLE5CCU6**
- **LoRaWAN 1.0.3** specification compliant
- **Supported bands:** EU433, CN470, IN865, EU868, AU915, US915, KR920, RU864, and AS923-1/2/3/4
- LoRaWAN activation by OTAA/ABP
- LoRa Point-to-Point (P2P) communication
- Easy-to-use AT command set via UART interface
- Custom firmware using Arduino via RUI3 API
- Long-range - greater than 15 km with optimized antenna
- ARM Cortex-M4 32-bit
- 256 kbytes flash memory with ECC
- 64 kbytes RAM
- **Supply Voltage:** 5 V via USB or 3.7-4.2 V using Li-Ion Battery
- **Temperature Range:** -20° C ~ 70° C

NOTE

For CE and FCC certifications we provide an AT command guide.

You can find it in our [RUI3 documentation](#) or get it from our [Download Center](#).