



# RAK4600 WisDuo LPWAN Module

Thank you for choosing **RAK4600 WisDuo LPWAN Module** 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](#)
- [RUI Secondary Development](#) - RAK4600 module supports RUI Secondary Development, refer to [RUI](#) for further details.
- [Low Level Development](#)
- [Datasheet](#)
- [RAK4600 3D Model](#) 
- [Reference Design](#) 

## Product Description

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RAK4600 WisDuo LPWAN Module includes an nRF52832 MCU and an SX1276 LoRa chip. It has Ultra-Low Power Consumption of 13.3  $\mu\text{A}$  (down to 11.2  $\mu\text{A}$  @ 2.0 V) in sleep mode, high LoRa output power up to 20 dB max in work mode, and BLE output power up to 4 dBm.

The module complies with LoRaWAN 1.0.2 specification. It supports LoRa Point-to-Point (P2P) communications and also the BLE 5.0, in addition to LoRa. Its RF communication capabilities (LoRa+BLE) make it suitable for a variety of applications in the IoT field.

## Product Features

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- LoRa module for Smart City, Smart Agriculture, Smart Industry
- Compact Form Factor: 15 x 23 x 2.5 mm
- 42 Pin Stamp Pad for PCB SMT mounting
- I/O ports: UART/I2C/GPIO (optional NFC interface)
- Temperature range: -40 °C to +85 °C
- Supply voltage: 2.0 ~ 3.6 V
- Frequency range: 863–870 MHz (EU) / 902–928 MHz (US), ISM, and SRD systems
- Low-Power Wireless Systems with 7.8 kHz to 500 kHz Bandwidth
- It has Ultra-Low Power Consumption of 13.3  $\mu\text{A}$  (down to 11.2  $\mu\text{A}$  @ 2.0 V) in sleep mode
- LoRa Boost mode with 20dBm output power
- BLE 5.0 (Tx power -20 to +4 dBm in 4 dB steps)

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