RAK®
IoT Made Easy

Thanks for choosing RAKwireless!

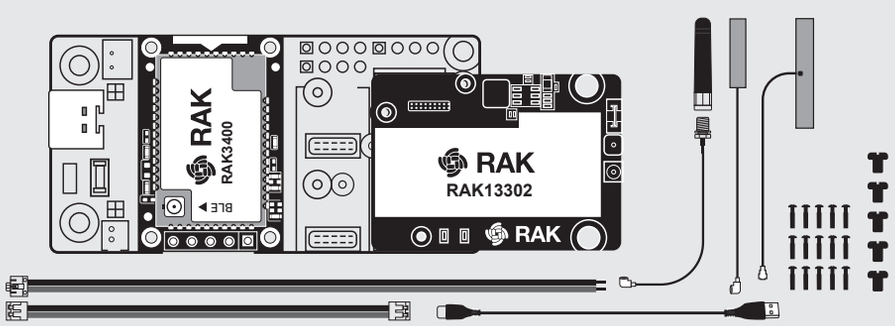
The WisMesh 1W Booster Starter Kit enhances TX power and reception for Meshtastic networks. Powered by the RAK3401 WisBlock Core with a Nordic nRF52840 MCU, and paired with the RAK13302 1 W LoRa® transceiver featuring a dedicated RF filter, it delivers up to 1 W transmission power and improved receiver sensitivity.

The kit includes the WisBlock nRF52840 Core, a RAK13302 1 W LoRa module, and a 2 dBi high-gain rubber antenna. Its modular design allows easy customization for building repeaters and extending network coverage.

For this device use Meshtastic *firmware-rak3401-1watt-w.x.yy.zzzzzzz.uf2*

Package Contents

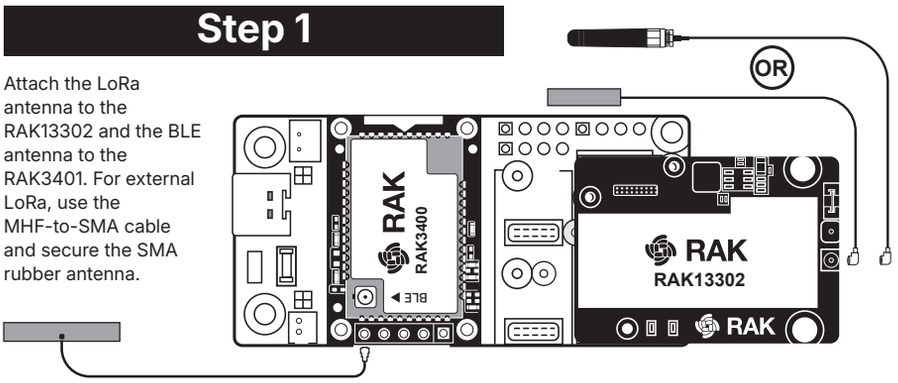
WisBlock Base Board RAK19007 × 1
WisBlock Core Module RAK3401 × 1
WisBlock LoRa Module RAK13302 × 1
SMA Rubber LoRa Antenna × 1
MHF to SMA cable for LoRa Antenna × 1
PCB Antenna for LoRa × 1
PCB BLE Antenna × 1
USB Cable × 1
5 V Supply Cable × 2
Set of Screws × 1



Getting Started

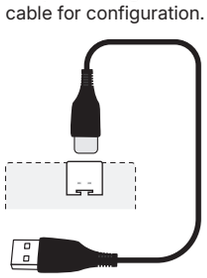
Step 1

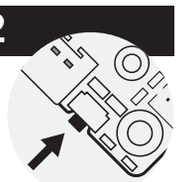
Attach the LoRa antenna to the RAK13302 and the BLE antenna to the RAK3401. For external LoRa, use the MHF-to-SMA cable and secure the SMA rubber antenna.



Step 2

Connect the PCB to your computer using a USB cable for configuration.

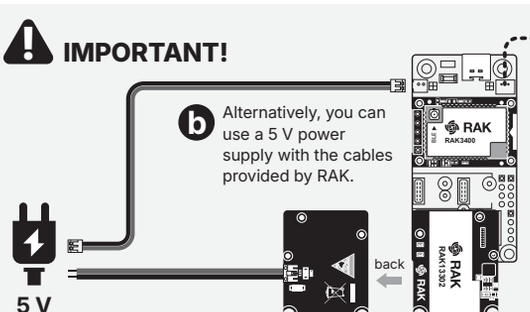




Double-press the button on the base board to enter DFU mode.

IMPORTANT!

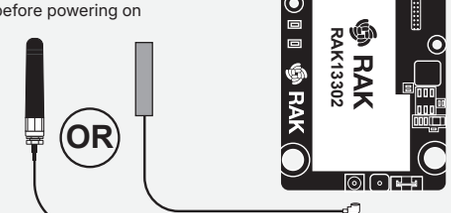
b Alternatively, you can use a 5 V power supply with the cables provided by RAK.



a Connect the battery to the RAK19007 Base Board; otherwise, the RAK13302 will not be able to reach the 1 W transmission power.

IMPORTANT!

Make sure the LoRa antenna is connected before powering on the device.



Need More Information?

For detailed product specifications, configuration guides, and technical support, scan the QR code on the right to access our online document center. Stay up to date with the latest resources and troubleshooting tips to get the most out of your device.

Scan for WisMesh 1W Booster Starter Kit Documentation