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# **RAK833-EVB Mini PCIe LoRa Gateway Concentrator Module and Router AP Evaluation Kit**

## **Description**

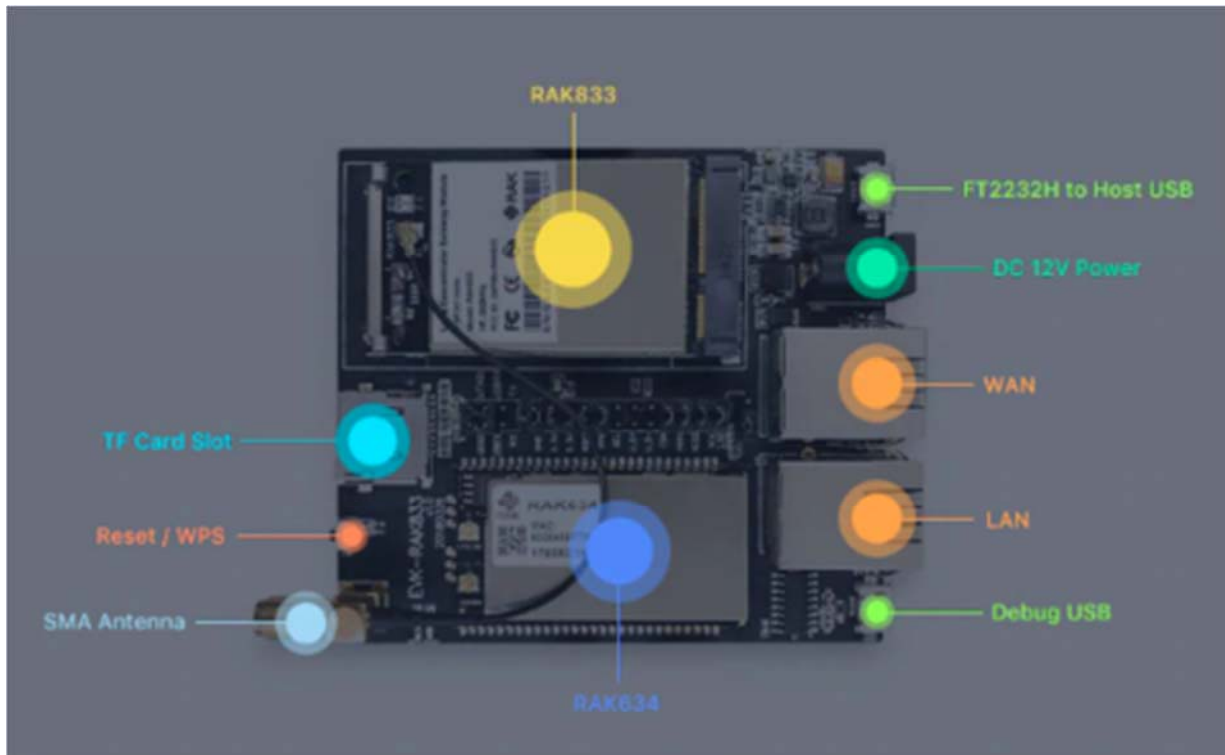
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The RAKwireless RAK8333-EVB kit is specifically designed for PCIe LoRa Gateways RAK833 which can be quickly used and easily tested by developers.

RAK833-EVB kit includes:

- RAK833 LoRa Gateway
- RAK634 (Base on MT7628N wireless AP Module)
- 2 USB Ports
- 1 Power Interface
- 1 TF card slot
- 1 Reset button
- 1 SMA antenna interface
- 1 WAN and LAN interface

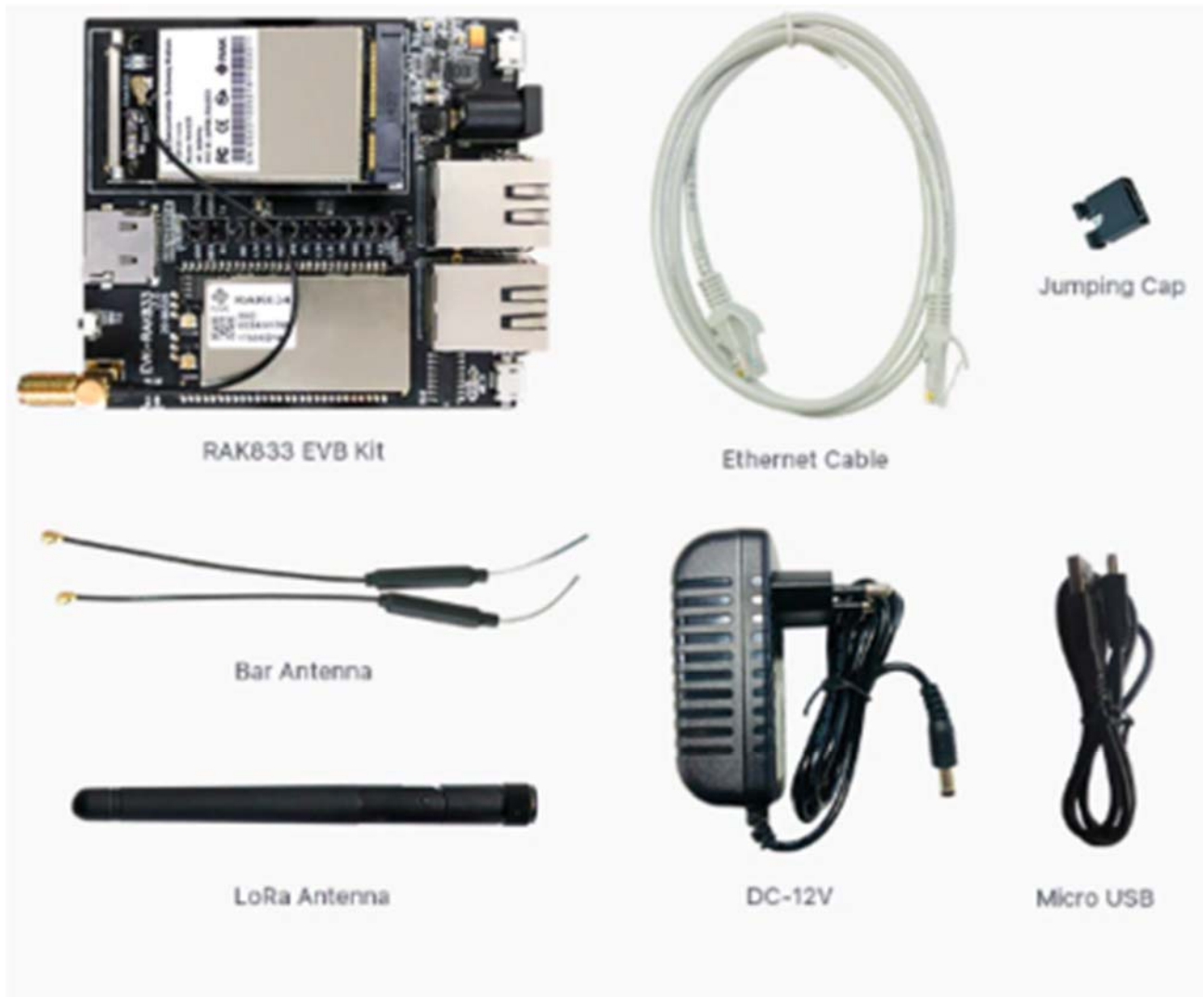
The physical size is 90mm x 80mm x 18mm.



## What do I get?

- RAK833-EVB Kit
- Ethernet Cable
- Jumping Cap
- Bar Antenna
- LoRa Antenna
- DC-12V Power Supply
- Micro USB cable





## Specification

### RAK833 PCIe LoRa Gateway

- RAK833-SPI: Only supports SPI interface
- RAK833-SPI/USB: Supports both SPI & USB interface

## Mini PCIs LoRa Gateway Module - Based on SX1301 and FT2232H

- Frequency band 868MHz & 915MHz
- Standard Mini PCI-s form factor with 52 Pin
- Voltage of Mini PCI-e is 3.3v which is compatible with 3G/LTE card of mini PCIs type
- Interfaces USB & SPI
- SX1301 base band processor emulates 49 x LoRa demodulators 10 parallel demodulation paths
- Module build in FT2232H to convert SPI interface of SX1301 to USB2.0

## RAK634 AP Module

- Operating Frequencies: 2.4 to 2.4835GHz
- IEEE Standards: IEEE 802.11b/g/n
- Wireless data rate can reach up to 300Mbps
- Connect to the external antenna through i-pex connector or layout.
- Power supply: 3.3v =0.2V
- 16MB Flash, 40MHz XTAL, 128MB DDR2