

Shenzhen Rakwireless Technology Co., Ltd.  
Add: Room 506, Bldg B, New Compark, Pingshan First Road, Taoyuan Street, XiLi  
town, Nanshan District, Shenzhen, China  
Tel: +8675586152201 Fax: +8675586152201  
Email: ye.duiyu@rakwireless.com

## Modular Approval Letter

Date: 2018-12-12

FEDERAL COMMUNICATIONS COMMISSIONS  
Authorization and Evaluation Division  
7435 Oakland Mills Road  
Columbia, MD 21046

Dear Application Examiner,

We, Shenzhen Rakwireless Technology Co., Ltd. , is submitting this application for certification of product named as LoRa Concentrator Gateway Module, Model Numbers: RAK833, RAK833 SPI, RAK833 USB/SPI (FCC ID: 2AF6B-RAK833). It is seeking modular approval. The radio meets the requirements for modular approval as detailed in FCC 15.212. Compliance to each of the requirements is described below:

1. **“The modular transmitter must have its own RF shielding.”**  
Yes, it is fulfilled. The radio portion of the module has its own RF shielding. The shielding is installed at the factory. Please see the EUT photos.
2. **“The modular transmitter must have buffered modulation/data inputs.”**  
Yes, it is fulfilled. The EUT has buffered data inputs to insure compliance with Part 15 requirements under conditions of excessive data rates or over modulation. Please see the Schematics exhibit.
3. **“The modular transmitter must have its own power supply regulation.”**  
Yes, it is fulfilled. The EUT has its own power supply regulation to insure compliance.
4. **“The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).”**  
Yes. The EUT has type antenna interface design: I-PEX connector point extraction.
5. **“The modular transmitter must be tested in a stand-alone configuration.”**  
Yes, it is fulfilled. The EUT was tested in a stand-alone configuration.

6. **“The modular transmitter must be labeled with its own FCC ID number.”**  
Yes, it is fulfilled. The module will be labeled with its own FCC ID number.  
Please see FCC ID label & location exhibit.
7. **“The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.”**  
Yes, it is fulfilled. The necessary explanation to be complied with this requirement is contained in the user manual, and please refer to the User manual.
8. **“The modular transmitter must comply with any applicable RF exposure requirements.”**  
Yes, it is fulfilled. The module will comply with all applicable RF exposure requirements in its intended configuration/integration in a host.

Please contact me if you have additional questions. Your attention to this matter is greatly appreciated.

Sincerely Yours,

Signature: *duiyu.ye*

duiyu ye  
Engineer