

Shenzhen Rakwireless Technology Co., Ltd.
Add: RM1007, Hangsheng Technology Building, 4th South Gaoxing Avenue,
Science and Technology Park, Nanshan District, Shenzhen, China
Tel: +8675586162201 Fax: +8675586162201
Email: Farce.chen@rakwireless.com

Modular Approval Letter

Date: 2018-04-26

FEDERAL COMMUNICATIONS COMMISSIONS

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046

Dear Application Examiner,

We, Shenzhen Rakwireless Technology Co., Ltd., are submitting this application for certification of product named as M100B-H LoRa transceiver module under FCC ID: 2AF6B-RAK831. 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 an external antenna with a non-standard antenna jack which the maximum antenna gain is 2.0 dBi, fulfill the requirement of this section.
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 refers 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:

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Engineer