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Modular Approval Letter

May 25, 2020

To:
Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD

Subjects: Modular Approval Letter

The Device, [FCC ID: 2AF6B -RAK4600H](#), is seeking FCC authorization as a modular transmitter. The EUT meets the requirement for modular approval as detailed in FCC Public Notice DA 00-1407. Compliance to each of the requirement is described below:

- (a) The radio elements must have the radio frequency circuitry be shielded.
Physical/discrete and tuning capacitors may be located external to the shield, but must be on the module assembly.
[The elements of this modular has been shielded.](#)

- (b) The module shall have buffered modulation/data input(s) (if such inputs are provided) to ensure that the module will comply with the requirements set out in the applicable RSS/FCC standard under conditions of excessive data rates or over-modulation.
[Yes.](#)

- (c) The module shall have its own power supply regulation on the module. This is to ensure that the module will comply with the requirements set out in the applicable standard regardless of the design of the power supplying circuitry in the host device which houses the module.
[The modular has an onboard 3.3V regulator\(integrated in SX1276 for LoRa, nRF52832 for Bluetooth \).](#)

- (d) The module shall comply with the provisions for external power amplifiers and antennas detailed in this standard. The equipment certification submission shall contain a detailed description of the configuration of all antennas that will be used with the module.
[The modular has external antennas which comply with the antenna requirement of Section 15.203.](#)

- (e) The module shall be tested for compliance with the applicable standard in a stand-alone configuration, i.e. the module must not be inside another device during testing.
[The modular was tested in a standalone configuration apart from host units.](#)

(f) The module shall comply with the Category I equipment labeling requirements and CFR § 15.212(a)(1)(vi).

The modular has its own FCC ID number.

(g) The module shall comply with any applicable FCC RF exposure requirement which are based on the intended use/configurations.

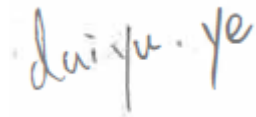
Yes, the module is intended to use in distance more than 20cm. FCC RF exposure requirement satisfied with 47CFR §2.1091.

(h) The modular transmitter complies with all applicable FCC rules. Instructions for maintaining compliance are given in the user instructions.

Yes

If you have any questions, please feel free to contact us at the address shown below

Sincerely,

A handwritten signature in blue ink, appearing to read "Duiyu Ye".

(Signed)

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