RNG International Inc.
**Modular Transmitter Approval Request**

Federal Communications Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

**Company name:** RNG International Inc.
**FCC ID:** 2ANPB-RIV1230RCH

Gentlemen,

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Certification Guide v02'. FCC ID: 2ANPB-RIV1230RCH has been examined against the following requirements.

Items to be covered by Single modular transmitters.

| **Requirement per 15.212 and KDB 996369 D01 'Modular Certification Guide v02** | **Explanation from Grantee** (do not write yes/no, but explain why product complies/how it is achieved) |
|---|---|
| 1. The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly | Yes<br>The model with shielding cover, Single modular approval. |
| 2. The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal | Yes<br>Buffered data inputs stage has been integrated in chip TTC2640 R2 |
| 3. The module must contain power supply regulation on the module | Yes<br>The power regulator has been integrated in chip TTC2640 R2 |
| 4. The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b) | The requirements of antenna connector and spurious emission have been fulfilled. Please reference the exhibition Test Report. |
| 5. The module must demonstrate compliance in a stand-alone configuration | Please reference exhibition Test Configuration Photo for the stand-alone test configuration. |
| 6. The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements) | The instruction on the labelling rule of the end product has been stated in the Users manual of this module. Please also see the exhibition Label Sample. |
| 7. The module must comply with all specific rules applicable to the transmitter including all the conditions provided in the integration instructions by the grantee | The required FCC rule has been fulfilled and all the instructions for maintaining compliance has been clearly stated in the Users Manual. |
| 8. The module must comply with RF exposure requirements | Please refer exhibition RF Exposure for the compliance of MPE RF exposure rule. |

Items to be covered by Split modular transmitters.

| **Requirement per 15.212 and KDB 996369 D01 'Modular Certification Guide v02** | **Explanation from Grantee** (do not write yes/no, but explain why product complies/how it is achieved) |
|---|---|
| 9. Split modular transmitters must meet all the requirements of a single modular in above item1 and 5 for single modular approval requirements. | |
| 10. Only the radio front end must be shielded. The physical crystal and tuning capacitors may be located external to the shielded radio elements. The interface between the split sections of the modular system must be digital with a minimum signaling amplitude of 150 mV peak-to-peak. | |
| 11. Control information and other data may be exchanged between the transmitter control elements and radio front end. | |
| 12. The sections of a split modular transmitter must be tested installed in a host device(s) similar to that which is representative of the platform(s) intended for use. | |
| 13. Manufacturers must ensure that only transmitter control elements and radio front end components that have been approved together are capable of operating together. The transmitter module must not operate unless it has verified that the installed transmitter control elements and radio front end have been authorized together. Manufacturers may use means including, but not limited to, coding in hardware and electronic signatures in software to meet these requirements, and must describe the methods in their application for equipment authorization. | |

**A limited modular approval (LMA) may be granted for single or split modular transmitters that comply partially with requirements above.**

**Name: Jason Jiang** **Date: 2023/05/08**

**Title: Director of Product Solution**

**Signature of applicant**