

Gpacers Technology

4th Floor, No.168 Yongji Road, Xinyi District, Taipei 110, Taiwan

Cover Letter-Modular Approval

FCC ID: 2ARB9-GPM-RF2021

Date: April 8, 2021

Gentlemen:

There's a Gpacers LoRa module that would like to have your authorization as a modular approval. The specific product as below, WiFi+Bluetooth 4.1(HS) System on Module with its designed features and specified description, meets special requirements for Full modular approval on FCC KDB996369 by cross-reference list below.

| | |
|----------------|---------------------|
| Company | Gpacers Technology |
| Equipment Name | Gpacers LoRa module |
| Model Number | GPM-RF2021 |
| FCC ID | 2ARB9-GPM-RF2021 |

| Requirement of FCC KDB996369 | Comply (Y/N) & Description |
|---|---|
| 1. The modular transmitter must have its own RF shielding. | Yes. It has its own shielding, please refer to photographs in SGS report No. T210115W01-1. |
| 2. The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation. | The module use SX1276 transceiver which features the LoRa® long range modem that provides ultra-long range spread spectrum communication and high interference immunity to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation. Please refer to SX1276 datasheet: https://semtech.my.salesforce.com/sfc/p/#E0000000JelG/a/2R0000001Rbr/6EfVZUorrpoKFfvaF_Fkpgp5kzjiNyiAbqcpqh9qSjE |
| 3. The modular transmitter must have its own power supply regulation. | The module use TI TPS63030 as its power supply regulation. Please refer to TPS63030 datasheet: https://www.ti.com/lit/gpn/tps63030 |
| 4. The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a “unique” antenna coupler (at all connections between the module and the antenna, including the cable). The “professional installation” provision of Section 15.203 is not applicable to modules but can | The antenna is permanently attached and irreplaceable by user. please refer to photographs in SGS report No. T210115W01-1. |

Gpacers Technology

4th Floor, No.168 Yongji Road, Xinyi District, Taipei 110, Taiwan

| | |
|---|--|
| apply to limited modular approvals under paragraph (b) of this section. | |
| 5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. | SGS, the accredited laboratory, tests in accordance with the regulations, and attaches the test report No. T210115W01-RP. |
| 6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: 2AKZA-QCA9377" or "Contains FCC ID: 2AKZA-QCA9377" Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization. | It will be labeled on the device in accordance with the regulations here mentioned, and relevant instructions will be provided in the submitted report No. T210115W01. |
| 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. A copy of these instructions must be included in the application for equipment authorization. | Yes. The modular transmitter comply with all specific rule and operating requirements applicable to the transmitter. SGS, the accredited laboratory, tests in accordance with the regulations, and attaches the test report No. T210115W01-RP and a copy of these instructions - user guide of the module. |
| 8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread | Yes. The modular transmitter comply with all applicable RF exposure requirements. SGS, the accredited laboratory, tests in accordance with the regulations, and attaches the test report No. T210115W01-RP. |

Gpacers Technology

4th Floor, No.168 Yongji Road, Xinyi District, Taipei 110, Taiwan

spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4).

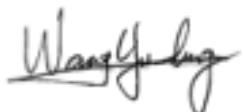
Thank you.

Sincerely,

Name: YU LUNG WANG

Title: CEO

Signature:

A handwritten signature in black ink, appearing to read "Wang Yulung".

On behalf of Company: Gpacers Technology

Telephone: +866-2-2766-3399