

Reference:

Applicant: Jannatec Technologies
Equipment: 900 MHz CC1020 Module
Model p/n: JAWS Transceiver Module
FCC ID: 2AZ9PCC1020
IC: 7085A-CC1020

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With regard to the FCC Part 15 and ISSED RSS-210 requirements for modular approval, Jannatec Technologies would make the following observations with regard to the numbered requirements for the RF module: CC1020 (FCC ID: 2AZ9PCC1020, IC: 7085A-CC1020) as a Single-modular transmitter.

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.

ANS - Complies, This module has its own shielding. Refer to EUT photos.

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.

ANS - Complies, All inputs to the module are buffered by CC1020. Refer to Schematics

3. The module must contain power supply regulation on the module.

ANS – Complies, The module uses MIC5205-3.3YM5 3.3V output chips (U1 and U2) with built-in power management components and the rated input is 2.5V - 16V. Refer to schematics.

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 §§ 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b)

ANS- Complies, The antenna requirements are met by having third party tested the integral and variants of external antennas as part of the FCC submission.

5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in § 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see § 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is



unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available.

ANS- Complies, The modular tested stand-alone. Refer to test setup photos

6. The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.

(A) If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number 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: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." 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.

(B) If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC certified transmitter module(s)." Any similar wording that expresses the same meaning may be used. The user manual must include instructions on how to access the electronic display. A copy of these instructions must be included in the application for equipment authorization.

ANS – Complies, The Labeling requirements of the modular approvals are followed, Refer to label and label location exhibit.

7. The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete 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.

ANS – Complies, The operating instruction requirements of the modular approvals are followed, Refer to user manual exhibit.

8. Radio frequency devices operating under the provisions of this part are subject to the radio frequency radiation exposure requirements specified in §§ 1.1307(b), 1.1310, 2.1091, and 2.1093 of this chapter, as appropriate. Applications for equipment authorization of modular transmitters under this section must contain a statement confirming compliance with these requirements. The modular transmitter must comply with any applicable RF exposure requirements in its final configuration. Technical information showing the basis for this statement must be submitted to the Commission upon request.

ANS – Complies, The device meets RF exposure evaluation greater than 20cm distance specified in §2.1091. If the device built into a host as a portable usage, the additional RF exposure evaluation may be required as specified by §2.1093. Refer to MPE exhibits





Sincerely,

A handwritten signature in black ink, appearing to be "JB" with a long horizontal stroke extending to the right.

Jason Buie,
R&D Manager
Jannatec Technologies

