

Modular Approval Request Letter

June 18, 2024

Dear Application Examiner,

Company Name BARROT TECHNOLOGY CO., LTD. Product name i1421-sw, model name: i1421-sw, FCC ID: 2AOXV-I1421-SW-A would like to have your authorization as a modular approval. The requirements of Public Notice DA00-1407 have been met and shown on the following statements.

<i>Requirement of Public Notice DA00-1407 / part 15.212</i>	<i>Answer from applicant</i>
1. The modular transmitter must have its own RF shielding.	Yes, it has its own RF shielding. Please refer to external photos.
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.	Yes, it has buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal.
3. The modular transmitter must have its own power supply regulation.	Yes, it has a power supply regulation for transmitter inside the chip.
4. The modular transmitter must comply with the antenna requirements of Section 15.203 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)..	Yes, the requirements of antenna connector and spurious emissions have been fulfilled. Please refer to Test Report.
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed.	Yes, it was tested in a stand-alone configuration. Please refer to Setup Photo.
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: 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.	Yes, it is labelled with its own FCC ID number. Labelling instructions for host devices are stated in the use manual under “FCC warning”

BARROT TECHNOLOGY CO., LTD.

A1009, Block A, Jia Hua Building, No.9 Shangdisanjie St, Haidian District, Beijing, China

<p>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. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured.</p>	<p>Yes, it complies with any specific rules or operating requirements. Instructions are provided in the user manual.</p>
<p>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 spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance.</p>	<p>Yes, it complies with RF exposure requirements. Please refer to MPE calculation for the exposure information.</p>

BARROT TECHNOLOGY CO., LTD.

A1009, Block A, Jia Hua Building, No.9 Shangdisanjie St, Haidian District, Beijing, China

Yours sincerely,



Signatory

Name: Kerlwin Qiu

Job Title: Certification Engineer