

Request for Modular/Limited Modular Approval

| Subje | ect: Manufacturer's Declaration for | ☑ - Modular Approval☐ - Limited Modular Approval | □ - Split Modu □ - Limited Sp | | |
|-------|---|---|--|----------------|-----------------|
| Conf | identiality Request for: XPYJODY3 | <u>74</u> | | | |
| | | sic Requirements – FCC Part 15.212(| | | |
| | | Limited Module Description Must be | Filled Out on the F | | |
| 1 | The modular transmitter must have its own | pproval Requirement | re that the module | Kequire | ment Met |
| 1. | does not have to rely upon the shielding prall modular transmitter emissions to comp between the RF circuitry of the module an module is installed. Such coupling may re tuning capacitors may be located external | rovided by the device into which it is ins ly with FCC limits. It is also intended to d any wires or circuits in the device into sult in non-compliant operation. The ph | stalled in order for prevent coupling which the pysical crystal and | ⊠ - YES | □ - NO(*) |
| | Details: <example contain<br="" module="" the="" –="">on the top of the board next to antenna c</example> | | omponents and circ | uitry. The sh | ield is located |
| 2. | The modular transmitter must have buffer ensure that the module will comply with F or over-modulation. 15.212(a)(1)(ii) | | | ⊠ - YES | □ - NO(*) |
| | Details: <example application="" data="" modular="" the="" to="" –=""></example> | tion circuit is buffered as described in t | he operational desc | ription provid | led with the |
| 3. | The modular transmitter must have its own to ensure that the module will comply with supplying circuitry in the device into which | h FCC requirements regardless of the de | sign of the power | ⊠ - YES | □ - NO(*) |
| | Details: <example application="" contain="" module="" the="" –=""></example> | s its own power supply regulation. Ple | ase refer to schema | tic filed with | this |
| 4. | The modular transmitter must comply with §§ 15.203, 15.204(b), 15.204(c), 15.212(a attached or employ a "unique" antenna cantenna, including the cable). The "profest applicable to modules but can apply to lim 15.212(a)(1)(iv) |), and 2.929(b). The antenna must either oupler (at all connections between the m ssional installation" provision of § 15.20 | be permanently adule and the 03 is not | ⊠ - YES | □ - NO(*) |
| | Details: <example a="" and="" antennas="" application="" connectornector.="" list="" module="" of="" tested="" the="" –=""></example> | | | | |

Date: August 26, 2024



| 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. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 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 Section 15.27(a)). The length of these lines shall be 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 or commercially available (see Section 15.31(i)). 15.212(a)(1)(v) | ⊠ - YES | □ - NO(*) | |
|----|---|------------------------|-----------------|--|
| | Details: <example as="" filed="" in="" module="" photographs="" setup="" shown="" stand-alone="" test="" tested="" th="" the="" w<="" was="" –=""><th colspan="3">vith this application></th></example> | vith this application> | | |
| | Modular Approval Requirement | | Requirement Met | |
| 6 | 6. The modular transmitter must be labeled with its own FCC ID number, or use an electron display | | 110110111100 | |
| | If using a permanently affixed label with its own FCC ID number, 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. 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 | ⊠ - YES | □ - NO(*) | |
| | be included in the application for equipment authorization. 15.212(a)(1)(vi) Details: <example a="" application.="" are="" as="" exhibit="" filed="" in="" installation="" instructions="" is="" label="" labeling="" manual="" module="" on="" shown="" the="" there="" this="" with="" –=""></example> | application. | Host specific | |
| 7. | The modular transmitter must comply with all specific rule or operating requirements applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee. 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. 15.212(a)(1)(vii) | ⊠ - YES | □ - NO(*) | |
| | Details: <example 15c="" application.="" complies="" fcc="" filed="" installation="" instructions="" manual="" module="" online="" part="" requirements.="" the="" this="" to="" with="" –=""></example> | EM installer | are provided | |
| 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. | ⊠ - YES | □ - NO(*) | |



| | typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance. 15.212(a)(1)(viii) | | | | |
|---|---|---|--|---|--|
| Details: <example application.="" as="" exclusion="" exposure="" filed="" in="" information="" levels="" meets="" module="" portable="" rf="" shown="" the="" this="" with="" –=""></example> | | | | | |
| | | | | | |
| This ove LM end | Limited Module Description – When Applicab a module does NOT meet one or more of the above 8 requirements, the applicant may a Limited Modular Approval (LMA) is applied with the understanding that the applican report the final installation of the device, such that compliance of the end product is always a A; the module is only approved for use when installed in devices produced by grantee. product, into which the module will be installed, will be maintained by the applicant/mend product is always ensured should be provided here. **Details: <example -="" a="" n=""></example> | request Limited t will demonstra ssured. The ope A description r | ate and will re- erating conditi- egarding how | tain control on(s) for the control of the | |
| | | | | | |
| | Software Considerations – KDB 594280 / KDB 442812 (One of the follow | ing 2 items mu | st be applied) | <u> </u> | |
| | Requirement | | equirement M | | |
| 1. | For non-Software Defined Radio transmitter modules where software is used to ensure compliance of the device, technical description must be provided about how such control is implemented to ensure prevention of third-party modification; see KDB Publication 594280. | ☐ - Provided | l in Separate | ⊠ - N/A | |
| | Details: <example adjusted="" application.="" be="" by="" can="" cover="" device="" filed="" firmware="" letter="" modified="" not="" of="" or="" the="" this="" with="" –=""></example> | the end user as | described in a | ı separate | |
| 2. | For <u>Software Defined Radio (SDR)</u> devices, transmitter module applications must provide a software security description; see KDB Publication 442812. | ☐ - Provided | • | ⊠ - N/A | |
| | Details: <example -n="" a=""></example> | | | | |
| | | | | | |
| | Split Modular Requirements | | | | |
| -1 | Requirement | Pro | vided in Man | ual | |
| 1. | For split modular transmitters, specific descriptions for secure communications between front-end and control sections, including authentication and restrictions on third-party modifications; also, instructions to third-party integrators on how control is maintained. | ☐ - Provided | • | ⊠ - N/A | |
| | Details: <example -="" a="" n=""></example> | | | | |



OEM Integration Manual Guidance – KDB 996369 D03 Section 2

| | | ng the Conditions, Limitations, and Proce ntegrate the module into a host device. | dures |
|---|---|---|--|
| Requirement | | | |
| Is this module intended for sale to third parties? | ⊠ - YES | ☐ - No, If No, and LMA applies, the applicant can optionally choose to not make the following detailed info public. However there still needs to be basic integration instructions for a users manual and the information below must still be included in the operational description. If the applicant wishes to keep this info confidential, this will require a separate statement cover letter explaining the module is not for sale to third parties and that integration | |
| Items | required to be in the man | instructions are internal confidential – See KDB 996369 D03, Section 2 | ential documents. |
| applicants should include informa For example information on tra grantees own products and not in following items can be place | tion in their instructions ace antenna design could ntended for sale to third p d in the operational desci | formation to be in the installation manual for all these items indicating clearly when indicate "Not Applicable". Also if a moduparties, the user instructions may not need ription, but this should include a cover let | they are not applicable. ale is limited to only a I to be detailed and the |
| 1. List of applicable FCC rules. K a. Only list rules re 2. Summarize the specific operation a. Conditions such systems, professi 3. Limited Module Procedures. KI a. Describe alternat limiting condition b. When RF exposure that compliance in 4. Trace antenna designs. KDB 99 a. Layout of trace design verification confidential, the provided in the office of the provided in the office of the provided to be provided to be provided to be provided to the provided | □ - All Items shown to the left are provided in the Modular Integration Guide (or UM) for Full Modular Approval (MA) or LMA. □ - An LMA applies and is approved ONLY for use by the grantee in their own products, and not intended for sale to 3 rd parties as provided in a separate cover letter. Therefore the information shown to the left is found in the | | |



By:

(Signature/Title1)

Melanie Anastassiou, Project Manager (7layers GmbH) (Print name)

¹ - Must be signed by applicant contact given for applicant on the FCC site, or by the authorized agent if an appropriate authorized agent letter has been provided. Letters should be placed on appropriate letterhead.