

Federal Communications Commission Authorization and Evaluation Division FCC ID : CK5050PIA

Parrot SA would like to apply for Modular FCC approval. This letter is our application for such according to FCC public notice DA 00-1407.

9XTEND and Modular Transmitter Requirements

| Modular Transmitter Requirements | Manufacturer Clarification |
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| A - In order to be considered a transmitter | The module CK5050PIA is a feature-rich Bluetooth |
| module, the device must be a complete RF | platform dedicated for the integration of Bluetooth |
| transmitter, i.e., it must have its own reference | applications in car audios, car telematic systems or any |
| oscillator (e.g., VCO), antenna, etc. The only | systems requiring a complete embedded Bluetooth |
| connectors to the module, if any, may be power | solution. It only has one connector with the following |
| supply and modulation/data inputs. | electrical interfaces: |
| | • Audio |
| | • Analog interface : 2 microphones inputs + 1 stereo input |
| | • Digital I2S interface : 1 stereo input + output |
| | • Serial Link : UART for the software interface through |
| | AT commands (only for debug) |
| | • 3.3 V Power Supply |
| | RF part is integrated in one chip, and have its own |
| | reference oscillator (see <i>block diagram</i>). |
| B - Compliance with FCC RF Exposure | Bluetooth Radio IC has a power control, in order to limit |
| requirements may, in some instances, limit the | the output power. This power is defined by software, and |
| output power of a module and/or the final | cannot be changed, by the user (see datasheet |
| applications in which the approved module may | PMB8753.pdf) |
| be employed. | |
| C - While the applicant for a device into which | See datasheet $CK5050+_Datasheet_1.03.pdf$, in |
| an authorized module is installed is not required | paragraph 7 FCC Requirements for module application |
| to obtain a new authorization for the module, | |
| this does not preclude the possibility that some | |
| other form of authorization or testing may be | |
| required for the device (e.g., a WLAN into | |
| which an authorized module is installed must | |
| still be authorized as a PC peripheral, subject to | |
| the appropriate equipment authorization). D - In the case of a modular transceiver, the | |
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| modular approval policy only applies to the transmitter portion of such devices. Pursuant to Section 15.101(b), the receiver portion will either be subject to Verification, or it will not be subject to any authorization requirements (unless it is a Scanning Receiver, in which case it is also subject to Certification, pursuant to Section 15.101(a)). E - The holder of the grant of equipment authorization (Grantee) of the module is responsible for the compliance of the module in its final configuration, provided that the OEM, integrator, and/or end user has complied with all | These informations are exposed in datasheet and final customer should respect these instructions in order to have correct functionality. |
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| Integrator, and/or end user has complied with an of the instructions provided by the Grantee which indicate installation and/or operating conditions necessary for compliance. 1. The modular transmitter must have its own RF shielding. This is intended to ensure that the module does not have to rely upon the shielding provided by the device into which it is installed in order for all modular transmitter emissions to comply with Part 15 limits. It is also intended to prevent coupling between the RF circuitry of the module and any wires or circuits in the device into which the module is installed. Such coupling may result in non-compliant operation. | The CK5050PIA module is present as follows, and all electronic components are integrated inside the shielding, except for RF antenna. |
| 2. The modular transmitter must have buffered modulation/data inputs (if such inputs are | CK5050PIA module has no modulation/data inputs, but only audio inputs (with low level), and outputs with low |
| provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation. | level (audio). |
| 3. The modular transmitter must have its own power supply regulation. This is intended to ensure that the module will comply with Part 15 requirements regardless of the design of the power supplying circuitry in the device into which the module is installed. | In compliance with electrical schematic, modular transmitter integrated in CK5050PIA module has its own power supply 1.8V, done by SP6201ER, named U1702 on electrical schematic. |
| 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). Any antenna used with the module must be | Device is equipped with PARROT F integer antenna. |

| approved with the module, either at the time of | |
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| initial authorization or through a Class II | |
| permissive change. The "professional | |
| installation" provision of Section 15.203 may | |
| not be applied to modules. | |
| 5. The modular transmitter must be tested in a | As described in CK5050+_Datasheet_1.03.pdf, the |
| stand-alone configuration, i.e., the module must | modular transmitter is tested in a stand-alone |
| not be inside another device during testing. This | configuration. It is plugged on its workbench, and it is |
| is intended to demonstrate that the module is | only supplied during measurements. |
| capable of complying with Part 15 emission | |
| limits regardless of the device into which it is | |
| eventually installed | |
| 6. The modular transmitter must be labelled | It is ordered to the client to respect conditions exposed in |
| with its own FCC ID number, and, if the FCC | CK5050+_Datasheet_1.03.pdf |
| 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 | |
| 7. The modular transmitter must comply with | Specific rules, and operating conditions are exposed in |
| any specific rule or operating requirements | <i>CK5050+_Datasheet_1.03.pdf</i> , in paragraph <i>Electrical</i> |
| applicable to the transmitter and the | Architecture |
| manufacturer must provide adequate instructions | |
| along with the module to explain any such | |
| requirements. | |
| 8. The modular transmitter must comply with | As Bluetooth application, module CK5050PIA is |
| any applicable RF exposure requirements. | submitted to FCC part 15 paragraph 15.247 requirements. |
| | Results are exposed in the test report. |
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Sincerely,

Arezki Guerrab

