

Receiver

Federal Communication Commission
Equipment Authorization Division, Application
Processing Branch
7435 Oakland Mills Road
Columbia, MD 21048

Subject:

Modular Approval Statement

Date: March 28, 2024

FCC Certification Number: SQG-SONANX611S

- ☒ Single-modular transmitter: A complete RF transmission sub-assembly, designed to be incorporated into another device, that must demonstrate compliance with FCC rules and policies independent of any host;
☐ Limited single-modular transmitter: A single-modular transmitter that complies with the § 15.212(a)(1) modular rules, only when constrained to specific operating host(s) and/or associated grants condition(s);

TO WHOM IT MAY CONCERN

Pursuant to Paragraphs FCC part 15.212, we herewith declare for our module.

Single modular transmitters must meet all of the following requirements to obtain a modular transmitter approval. Limited modular approval may be granted for single that do not comply with all of the following requirements,

Single Modular approval requirement	Yes	No
(i) The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.	X	
Comment: The module has an integral RF shield to isolate it from the surrounding environment. Please refer to EUT photos.		
(ii) The module 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.	X	
Comment: All inputs are processed as data by the on board microprocessor. There is no direct access or control of the transmit modulation.		
(iii) The module shall have its own power supply regulation on the module. This is to ensure that the module will comply with the requirements set out in the applicable standard regardless of the design of the power supplying circuitry in the host device which houses the module.	X	
Comment: The module utilizes nRF52833 and SR040 components which contain on-chip voltage regulators.		
(iv) 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 Sections 15.203, 15.204(b), 15.204(c), and 15.212(a).	X	
The "professional installation" provision of §15.203 is not applicable to modules but can apply to limited modular approvals. The equipment certification		

submission shall contain i) a detailed description of the configuration of highest antenna gain for each type of antenna. ii) the maximum transmitting antenna gain for license modules iii) a detailed description of the configuration of lowest antenna gain for each type of receiving antenna for Dynamic Frequency Selection (DFS) modules with removable antenna(s)		
Comment: The module uses IPEX MHF4L connectors which are in accordance with Part 15.203		
(v) The module shall be tested for compliance with the applicable standard in a stand-alone configuration, i.e. the module must not be located inside another device during testing.	X	
Comment: The module was tested in a stand-alone configuration and found to be compliant with Part 15 regulations. Please refer to Test Setup photo		
(vi) The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements).	X	
Comment: The module is labeled with its own FCC ID number affixed to each unit at manufacture. Information is clearly presented in the module's regulatory information guide about labeling requirements for the final assembly.		
(vii) 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.	X	
Comment: The module is compliant with all applicable FCC rules. Details and instructions for maintaining compliance are given in the module's Datasheet and Regulatory Information Guide.		
(viii) The module shall comply with applicable FCC RF exposure requirements, which are based on the intended use/configurations.	X	
Comment: The module complies with this requirement. Please refer to the RF exposure report.		

Best Regards,



Brian E. Petted, Technology Leader
Ezurio LLC