

Single Module Approval Request Letter

Date: 2025-3-11

To:
Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD

Subjects: Single Module Approval Request Letter

The Device, [FCC ID: 2BB77-ESPS3-32E](#), is seeking FCC authorization as a modular transmitter. The EUT meets the requirement for modular approval as detailed in FCC Public Notice DA 00-1407. Compliance to each of the requirement is described below:

- (a) The radio elements must have the radio frequency circuitry be shielded.
Physical/discrete and tuning capacitors may be located external to the shield, but must be on the module assembly.

[The radio portion of this module has been shielded.](#)

- (b) The module shall have buffered modulation/data input(s) (if such inputs are provided) to ensure that the module will comply with the requirements set out in the applicable RSS standard under conditions of excessive data rates or over-modulation.

[Yes. The EUT has bufferd data inputs.](#)

- (c) 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.

[The modular has an onboard 3.3V regulator\(integrated in ESP32-S3\).](#)

- (d) The module shall comply with the provisions for external power amplifiers and antennas detailed in this standard. The equipment certification submission shall contain a detailed description of the configuration of all antennas that will be used with the module.

[The EUT meets the FCC antenna requirements. The spurious emission is shown in the test report, and unique antenna connector requirement is shown in User's Manual.](#)

- (e) The module shall be tested for compliance with the applicable standard in a stand-alone configuration, i.e. the module must not be inside another device during testing.

[The modular was tested in a standalone configuration Via a extender. Please see photographs of Test Configuration in the test report, the EUT was plugged in this extender.](#)

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(f) The module shall comply with the Category I equipment labeling requirements and CFR § 15.212(a)(1)(vi).

The modular has its own FCC ID number. And also in the exhibition Users Manual, there are instructions give to the OEM on how to label the end product.

(g) The module shall comply with any applicable FCC RF exposure requirement which are based on the intended use/configurations.

Yes, RF cexposure evaluation performed at 20cm. Detail instructions for maintaining compliance are given in the Users Manual.

(h) The modular transmitter complies with all applicable FCC rules. Instructions for maintaining compliance are given in the user instructions.

Yes, The EUT is compliant with all applicable RF exposure requirements. RF Exposure is addressed in the RF exposure exhibition.

If you have any questions, please feel free to contact us at the address shown below

Sincerely,



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