

Modular Approval Request Letter

FCC ID: 2AFC3ESP32P001
IC: 22503-ESP32P001
Model: GC-ESP32-PORT-N

Dear Examiner,

GridConnect requests authorization under modular approval specific to the MOBILE RF exposure condition on their WLAN/BLE Module GC-ESP32-PORT-N.

The requirements of Public Notice DA00-1407 and Section 15.212 have been met and are shown in the following statements.

1. “The modular transmitter must have its own RF shielding.”

The radio portion of this module is shielded, please see External Photos exhibit.

2. “The modular transmitter must have buffered modulation/data inputs.”

The EUT has buffered data inputs integrated in chip ESP32-D2WD.

3. “The modular transmitter must have its own power supply regulation.”

The EUT power is regulated by internal power management module on ESP32-D2WD.

4. “The modular transmitter must comply with the antenna requirements of section 15.203 and 15.204(C).”

The EUT meets the antenna requirements. The spurious emission, unique antenna connector and photos of antennas are included in the test report and external photo exhibits.

5. “The modular transmitter must be tested in a stand-alone configuration”

The EUT was tested in a stand-alone configuration, mounted on a development interface board allowing UART commands and power to be sent to the module. Please see test setup photographs and block diagram in the test report, where the EUT was plugged into a development board for testing.

6. “The modular transmitter must be labeled with its own FCC ID number.”

Please see labeling exhibit demonstrating where the FCC ID is applied to this module. In the Users Manual exhibit there are instructions to the OEM on how to label the end product.

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.”

The EUT is compliant with all applicable FCC rules. Detailed instructions for maintaining compliance are given in the User's Manual.

8. “The modular transmitter must comply with any applicable RF exposure requirements.”

The EUT is compliant with all applicable RF exposure requirements. RF Exposure is addressed in the RF exposure exhibit and required end user separation requirements are detailed in the users manual exhibit.