

We , Ralinwi Nanjing Electronic Technology Co., Ltd. apply single modular approval for  
Product: tiny embedded Wi-Fi module  
Model: TinyCon2005, TinyCon2005-LS/LM/LG/LR  
FCC ID 2ADGHTINYCON

According to 996369 D01 Module Equip Auth Guide v01r04 and 15.212 requirement:

(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.

Answer: Yes

Modular has shielding on the top and bottom sides

(ii) The modular transmitter 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.

Answer: Yes

The EUT has buffered data inputs; it is integrated in chip STM32F103xC

(iii) The modular transmitter must have its own power supply regulation.

Answer: Yes

Answer: Yes

The EUT interface provides 3.3VDC, and on board IC STM32F103xC has its own VCO inside.

(iv) The modular transmitter must comply with the antenna and transmission system requirements of §§15.203,15.204(b) 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). The “professional installation” provision of §15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.

Answer: Yes

Integral antenna is used (Ceramic Antenna with gain -0.8dBi)

(v) The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in §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 §15.27(a)). The length of these lines shall be the 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 and commercially available (see §15.31(i)).

Answer: Yes

The device was tested with stand –alone configuration, the distance between module and other supporting equipment is larger than 10cm. The conducted emissions are done. Please see test report.

(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.

Answer: Yes

The modular has a permanent fixed label, and below statement was listed in the User Manual; The host device must be labelled to display the FCC ID of the module 'Contains FCC ID: 2ADGHTINYCON

(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.

Answer: Yes

The module comply with all specific rules applicable to the transmitter including all the conditions provided in the integration instructions by the grantee, Refer to test report and user manual .

(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.

Answer: Yes

Transmitter meets MPE calculation of 47 CFR 1.1307 . Refer to MPE Reports and Refer to modular installation manual.

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

**Dated this** Oct 25, 2014

**Agency agreement expiration date:**

Usually Give 8 - 12 Months

**By:**

Zuokun Liang

**Zuokun Liang**

Signature

Printed

**Title:** Product Manager

**On behalf of :**

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