



SHENZHEN HAC TECHNOLOGY CO., LTD.

(2008-10-27)

Request for Modular Approval Attestation for
the **(ZIGBEE)** Module (FCC ID: WMUHAC-UBEES)

Per the FCC Public Notice DA-00-1407 for Part 15 Unlicensed Modular Transmitter approval the following information is provided:

- 1) PN DA 00-1407 Page 2 Item 1: The EUT must have its own RF Shielding and be a complete RF transmitter. The EUT must not rely upon the shielding provided by the device into which it is installed for RF shielding.

The radio portion of the module is covered by a metal shielding (see the external photo exhibit).

- 2) PN DA 00-1407 Page 2 Item 2: The EUT must have buffered modulation/data inputs.

The RF module is categorized as "PC Periphery", so when using it must be have the data inputs to ensure that the module comply with part 15 requirements under conditions of excessive data rates or over-modulation.

- 3) PN DA 00-1407 Page 2 Item 3: The EUT must have its own power supply regulation and VCO built-in.

The modular transmitter regulate the power supply is +3.3-6V. when it tested, the power was by the test jig. The final equipment have its own power supply system

- 4) PN DA 00-1407 Page 2 Item 4: The antenna must either be permanently attached or employ a "unique" antenna connector. Any antenna used with module must be approved with the module at time of initial authorization. Professional installation provision may not be applied to modules regarding use of any other antenna other then the one authorized at the time of Certification of the module.

This device antenna is Reverse-Polarity SMA Antenna, please see the PCB photo.

- 5) PN DA 00-1407 Page 2 Item 4: Any antenna used with the module must be approved with the module. (The "professional installation" provision (15.203) may not be applied to modules)

This device antenna is layout on the PCB, please see the PCB photo.

- 6) PN DA 00-1407 Page 2 Item: The modular transmitter must be tested in a stand-alone configuration. i.e., the module must not be inside another device during testing.

This device was test as a stand-alone configuration, see the test setup photo.

7) PN DA 00-1407 Page 2 Item: Unless the module is battery powered, it must comply with the AC line conducted requirements found in Section 15.207.

This device comply with the AC line conducted requirements, please see the conducted test results.

8) PN DA 00-1407 Page 2 Item: AC, DC, and data input/output lines must not contain ferrites, unless they will be marketed with the module.

This device have no the ferrites contain with the AC,DC, and data input/output lines. See the test setup photos and the EUT Photos.

9) PN DA 00-1407 Page 2 Item: The module must have its own FCC ID and if not visible when installed inside another device, the outside device must display a label referring to the enclosed module. In this case, a copy of the instructions must be included in the application for equipment authorization.

According to the test result, the modular transmitter is comply with the FCC requirements. So , it can labeled with its own FCC ID label, please see the "FCC ID Label".

10) PN DA 00-1407 Page 2 Item: The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and must provide ADEQUATE instructions along with the module to explain any such requirements.

The modular transmitter comply with any specific rule and operating requirements applicable to the transmitter. About the detail please see the user manual and operation description.

11) PN DA 00-1407 Page 2 Item: The module must comply with RF exposure requirements. See FCC Rules. Spread Spectrum transmitters must comply with RF exposure limits in 15.247.

The modular transmitter comply with any applicable RF exposure requirements. All the test result please see the test report.

12) PN DA 00-1407 Page 2 Item: When approved, the grant of equipment authorization for the transmitter module MUST have the word "module" or "modular" added to the Remarks section of the grant.

The module apply Model Name is : Zigbee Module. So ,this item is complied.

Sincerely,
(**Shenzhen HAC Telecom Technology Co., Ltd.**)



Koala Zhang
Sales manager