



## Modular Approval Requirements

2007-10-31

Gentlemen:

Please find our responses to your comments below:

Request for Modular Approval Attestation for the **(Digitally modulated Systems)** Module (FCC ID: **VJ9XRF01**)

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.

**There is shield present on the PCB, covering the section of transmitter. Only the RF Antenna is exposed outside the shielding.**

**The bottom is a fully poured copper ground layer. No traces are on this layer. There are vias between the ground layer and shield least every 0.020.**

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

**Input signal buffered by the D1: MCU inside.**

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

**The modular have it's own power supply U1: LDO1, the voltage regulated power of 3.3V is supplied.**

- 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 than the one authorized at the time of Certification of the module.

**The modular connects to its antenna via a SMA connector. This connector must be internally connected to the antenna without the possible of user access.**

**The antenna is a standard 2.4G Wireless antenna. Only folded dipole antennas with 2dBi gain or less can be used with this modular (Details see antenna manual).**

- 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)

**Only folded dipole antennas with 2dBi gain or less can be used with this modular. (Details see antenna manual)**

- 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. (If tested in a Host Device then there must be a specific note on the Certification.)

**The Modular was tested as a standalone device, not inside any other equipment.**

- 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.

**Its battery powered device.**

- 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.

**Without ferrites.**

- 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.

**This exterior FCC ID Label will use wording, "FCC ID: VJ9XRF01". The label is mounted on the back ground side of this module.**



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 necessary explanations to comply with this requirement are contained in the user manual. (Details see user manual)**

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.

**Yes, the modular has very low levels of RF energy that it is deemed to comply without testing of specific absorption ratio (SAR).**

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.

**Its as "Modular".**

Sincerely ,

ASSAN ELECTRONIC CONTROL TECHNOLOGY Co., Ltd.



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(Jian-Jun Meng)  
(Vice President)