

10/26/2015

Request for a modular approval

Dear Application Examiner,

The 2GIG Technologies module Model: 2GIG-ZWM-500 is seeking FCC authorization as a modular transmitter. The requirements of FCC 15.212 are met.

The following requirements are fulfilled:

1. The modular transmitter must have its own RF shielding

The radio portion of the module is contained in its own RF shielding. See the external photos.



2GIG-ZWM-500 Top view.



2GIG-ZWM-500 Bottom view.

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

The module has an external NVM non-volatile memory serial flash device for storing programming data. The NVM connects to the SD3503 IC through a SPI interface with speeds up to 8MHz. The Z-Wave module also has an EEPROM that may be read by the main board IMX6 applications processor over an I2C interface.

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

The board used in this module includes a STLQ015 3.3 volt regulator for regulating the power to the transmitter.

4. The modular transmitter must comply with the antenna requirements of Section 15.203

The antenna has an omnidirectional radiation pattern and a peak gain of 1 dBi. The antenna is tied to ground as shown below.



5. The modular transmitter must be tested in a stand-alone configuration  
The EUT was tested in a stand-alone configuration.

6. The modular transmitter must be labeled with its own FCC ID number  
The EUT will be labeled with its own FCC ID number.

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. Detail instructions are given in the Install Guide.

8. The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.  
Instructions are given in the installation manual for compliance to the RF exposure requirements.

Sincerely,



Verdin Orozco.  
Sr. Regulatory Compliance Engineer.