

Modular Approval Request Letter

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Product Name: Serial WIFI Module

Model Number: S2W-M02

FCC ID: 2ADWI-S2W-M02

Date: 2015-01-09

Requirement of Public Notice DA00 - 1407 / part 15.212	
1. The modular transmitter must have its own RF shielding.	The module has a metal shield, used for shielding electromagnetic interference.
2. The modular transmitter must have buffered modulation/data inputs.	We have total control of the design and the data protocol through IC Chip RT5370. Intelligent MAC design deploys a high efficient DMA engine and hardware data processing accelerators without overloading the host processor.
3. The modular transmitter must have its own power supply regulation.	This module is always power supplied with the nominal voltage of +3.3Vdc from Advanced Power Management Part in RT5370. The module will automatically adjust the transmit power according to the communication distance. When the communication distance is short, the module uses 802.11g rates to transmit data. At this time, the transmitter power is about 18dbm. Along with the communication distance increases, the transmitter power module is also a corresponding increase. The maximum transmitter power is about 20dbm. At this time the module uses 802.11b rates. The WIFI IC complies with FCC part 15.
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).	The antenna is a PCB antenna which is permanently attached. Through the IPX interface connected to the module. The frequency range of the module is 2.412GHz-2.462GHz, Standard WiFi antenna can be used to the module.
5. The modular transmitter must be tested in a stand - alone configuration, i.e., the module must not be inside another device during testing.	This module is tested in a stand-alone configuration.
6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.	This module will be labelled with its FCC ID number. When the module is installed in our products and it is not visible, an external label will be applied which refer to the modules FCC ID number inside.

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. A copy of these instructions must be included in the application for equipment authorization.	The user manuals are based on the requirement specifications.
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine Environmental evaluation for RF Exposure to demonstrate compliance. In addition spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4).	<p>This module is used in products operating as a simple transmitting device with respect to 15.247.</p> <p>For final product, end-users must be provided with transmitter operation instruction for satisfying RF exposure compliance.</p>

Thank you.

Sincerely,

LUOMINHUA



注: 左侧为 FCC 模块认证的要求, 右侧红色字体为申请人对左侧要求作出的说明。