

**UNII Device Declaration Letter
 Cover Letter for UNII declaration
 Cover letter Software Security**

To whom it may concern:

We have declared below featured for FCC equipment authorization,
 Device FCC ID: 2ACIX-ZW

(1) DFS Device: Master Client with Radar detection capability
 N/A Client without radar detection capability,

(2) Active / Passive Scanning , adhoc mode access point capability

Frequency Band (MHz)	Active Scanning (the device can transmit a probe (beacon))		passive scanning (where the device is can listen only with no probes)		Ad Hoc Mode capability		Access point Capability (only for setup, channel 1, 2412MHz)	
	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2412-2462	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5745-5825	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5755-5795	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5180-5240	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5190-5230	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5260-5320	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5270-5310	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5500-5700	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5510-5670	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

(3) Country code selection ability Yes No
 If no, pls explain how it was implemented:

(4) Meet 15.202 requirement Yes No
 pls check below :

A master device is defined as a device operating in a mode in which it has the capability to transmit without receiving an enabling signal. In this mode it is able to select a channel and initiate a network by sending enabling signals to other devices

A client device is defined as a device operating in a mode in which the transmissions of the device are under control of the master. A device in client mode is not able to initiate a network.

(5) For client devices that have software configuration control to operate in different modes (active scanning in some and passive scanning in others) in different bands (devices with multiple equipment classes or those that operate on non- DFS frequencies) or modular devices which configure the modes of operations through software, the application must provide software and operations description on how the software and / or hardware is implemented to ensure that proper operations modes can not be modified by end user or an installer.

Apply Does not apply

(If apply, pls help to provide explanation on it was implement, and how software was controlled)

(6) The user can only select an SSID name and encryption key from an AP to connect to via the webpage.

Software Security Description

General description

- (1) Software can be obtained via the manufacturer's website. The software is protected through the form of a special header, containing a number of checksums. Before downloading the software into the device, the checksums are verified. By this mechanism, the device is adequately protected against unauthorized or corrupted software.
- (2) The device is not easily modified to operate with RF parameters outside of the authorization. Frequency Band, active Scanning or passive scanning and powers can be modified by software. The power level is limited to the US power levels.
- (3) Software cannot be modified as it is contained in a write protected area of the flash. Write protection is only disabled after successful authentication as described in (1). The software that is responsible for performing the update is RO (Read Only) and can never be modified.
- (4) See (1) and (3)
- (5) No encryption methods are used, a CRC checksum is in place to verify legitimacy. Secondly, the version of the firmware controlling the Wifi module is checked at runtime (each bootup) by the microcontroller.
- (6) When the device is operated in master mode, only channel 1 is supported, ensuring full compliance.

Third party access control

- (1) Third parties have the capability to operate a US sold device on any other regulatory domain, frequencies, or in any manner, but the device will remain FCC compliant.
- (2) There is no non-US version of the software/firmware available. The only version of the software available ensures FCC compliance.
- (3) Modular transmitter parameters cannot be modified by the user.

Software configuration description guide

Software configuration description

- (1) The UI is not accessible/viewable/modifiable, nor for a professional installer, nor for an end user or others. There is no country code configuration in the device.
- (2) The radio cannot be configured in bridge or mesh mode.
- (3) The device can only act as a master in a setup mode clearly indicated by its UI. It can never act as a master and client at the same time. In master mode, only channel 1 is used guaranteeing FCC compliance.
- (4) The device cannot be configured as different types of access points, such as point-to-point or point-to-multipoint. The device cannot use different types of antennas.

Sincerely,



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