

25 March 2019

Federal Communications Commission
Office of Engineering and Technology
Equipment Authorization Division
7345 Oakland Mills Road
Columbia, Maryland 21046

Subject: Compliance with 47CFR15.212 for FCC ID:2ASHV-TW30L

To whom it may concern

This device complies with the requirements for Singular Modular transmitters as detailed 15.212(a) and each item below is a response to the requirements of that rule sub-part:

- i. The module is fitted with a RF shield as shown in the photographs
- ii. All inputs are buffered and processed as data by the on-board microcontroller. The outside user has no direct control of transmit modulation.
- iii. The module can operate with an input voltage in the range 3.2 to 4.2 V. All RF circuitry including the PA is run from an on board 2.85V LDO regulator whose operation is disabled when the input voltage falls below 3.2V.
- iv. There is one antenna options with this module: Molex 47950-2011 with integrated 200mm co-axial cable and U.FL connector. This is in accordance with Part 15.203 as the U.FL connector on the PCB can be considered to be a "unique" antenna connector. This connector is used to connect the permitted antenna, which is a **Molex 47950-2011** 2.4-5G dual band antenna
- v. The module was tested whilst powered from a battery as that is standard installation and found to be compliant with Part 15 regulations. Whilst being tested the module was connected to accessory cables of standard length and supported by a plastic carrier or frame.
- vi. An FCC ID label is affixed to each unit at the time of manufacture. Information is also clearly presented in the user guide about labelling requirements for the final assembly.
- vii. This unit is compliant with Part 15.247. Installation and other requirements are presented in the user guide to allow the unit to be correctly installed.
- viii. The unit is compliant with the RF exposure requirements of Parts 15.247 and 2.1093.

Yours Sincerely



Charlie Blackham
Director