IoT Defense Inc.

Federal Communications Commission Authorization and Evaluation Division 7435 Oakland Mills Rd. Columbia, MD

Date: 2018-11-23 FCC ID: 2AP2U-SN3E

U-NII Device Security Statement

To Whom It May Concern

SOFTWARE SECURITY DESCRIPTION	
General Description	
1.Describe how any software/firmware update	Re: Only system software, it can be update by
will be obtained, downloaded, and installed.	"system upgrade" software. The level of
Software that is accessed through	security is middle.
manufacturer's website or device's	
management system, must describe the	
different levels of security.	
2.Describe the RF parameters that are	Re: For wireless, the manufacturers of
modified by any software/firmware without	wireless have inherent firmware which will not
any hardware changes. Are these parameters	be modified by the whole machine firmware or
in some way limited such that any other	software RF parameters.
software/firmware changes will not allow the	
device to exceed the authorized RF	
characteristics?	
3. Describe in detail the authentication	Re: The wireless is in accordance with WIFI
protocols that are in place to ensure that the	802.11 protocol. The RF parameters are in
source of the RF-related software/firmware is	the case of FCC regulations, the parameters
valid. Describe in detail how the RF-related	are internet in firmware provided by
software is protected against modification.	manufacturers, and the firmware will not be
	modified by the whole machine firmware or
	software.
4.Describe in detail any encryption methods	Re: wpa-psk TIKP, wps-psk AES, wep40,
used to support the use of legitimate	wep104
RF-related software/firmware.	
5.For a device that can be configured as a	Re: It is not working in DFS bands, and
master and client (with active or passive	compliance for related FCC rules.
scanning), explain how the device ensures	
compliance for each mode? In particular if the	

device acts as master in some band of operation and client in another; how is compliance ensured in each band of operation?

Third-Party Access Control

- 1. Explain if any third parties have the capability to operate a US sold device on any other regulatory domain, frequencies, or in any manner that is in violation of the certification.
- Re: The system of device starts with secure boot which can prevents flashing system software. The device has disable adb and root
- 2. Describe, if the device permits third-party software or firmware installation, what mechanisms are provided by the manufacturer to permit integration of such functions while ensuring that the RF parameters of the device cannot be operated outside its authorization for operation in the U.S. In the description include what controls and/or agreements are in place with providers of third-party functionality to ensure the devices' underlying RF parameters are unchanged and how the manufacturer verifies the functionality.

Re: The wireless is in accordance with WIFI 802.11 and protocol. The RF parameters are in the case of FCC regulations, the parameters are internet in firmware provided by manufacturers, and the firmware will not be modified by the whole machine firmware or software. Before installation of software and firmware, the system will check the certificate and signature, and only legal circumstances permit the installation.

3. For Certified Transmitter modular devices, describe how the module grantee ensures that host manufacturers fully comply with these software security requirements for U-NII devices. If the module is controlled through driver software loaded in the host, describe how the drivers are controlled and managed such that the modular transmitter RF parameters are not modified outside the grant of authorization.7

Re: The wireless is powered by whole machine, and the parameters of the wireless are determined by the firmware and the wireless module. There is no authority outside the use of.

SOFTWARE CONFIGURATION DESCRIPTION USER CONFIGURATION GUIDE 1.Describe the user configurations permitted through the UI. If different levels of access are permitted for professional installers, system integrators or end-users, describe the differences a) What parameters are viewable and configurable by different parties? b) What parameters are accessible or Re: NONE

modifiable by the professional installer or	
system integrators?	
(1) Are the parameters in some way limited,	Re: YES
so that the installers will not enter parameters	
that exceed those authorized?	
(2) What controls exist that the user cannot	Re: The firmware is write in ROM. The end
operate the device outside its authorization in	user cannot modify it.
the U.S.?	
c) What parameters are accessible or	Re: NONE
modifiable to by the end-user?	
d) Is the country code factory set? Can it be	Re: The country code is fixed for US, and it
changed in the UI?	cannot be changed in the UI.
e) What are the default parameters when the	Re: All the parameters is fixed for US,
device is restarted?	whatever the device is restarted or not.
2. Can the radio be configured in bridge or	Re: No
mesh mode? If yes, an attestation may be	
required. Further information is available in	
KDB Publication 905462 D02.	
3. For a device that can be configured as a	Re: No
master and client (with active or passive	
scanning), if this is user configurable,	
describe what controls exist, within the UI, to	
ensure compliance for each mode. If the	
device acts as a master in some bands and	
client in others, how is this configured to	
ensure compliance?	
4. For a device that can be configured as	Re:No
different types of access points, such as	
point-to-point or point-to-multipoint, and use	
different types of antennas, describe what	
controls exist to ensure compliance with	
applicable limits and the proper antenna is	
used for each mode of operation. (See	
Section 15.407(a))	

Sincerely,

Company: IoT Defense Inc.

Signature

Tilaraj Roychoudhury

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Typed name and Title: Tilakraj Roychoudhury /CEO