

Huawei Technologies Co., Ltd.

Statement

Federal Communications Commission Oakland Mills Road Columbia MD 21046 2019-03-22

Industry Canada

Subject: Statement for 2.4G Wi-FiTM

FCC ID: QISMACHR-WX9 IC: 6369A-MACHRWX9

The information within this section of the Operational Description is to show compliance against the Software Security Requirements laid out within KDB 594280 D02 U-NII Device Security v01r03. The information below describes how we maintain the overall security measures and systems so that only:

- 1. Authenticated software is loaded and operating on the device
- 2. The device is not easily modified to operate with RF parameters outside of the authorization

General Description 1. Describe how any software/firmware updates for There is no downloadable software provided by elements than can affect the device's RF parameters the manufacturer that can modify critical radio will be obtained, downloaded, validated and transmitter parameters. All critical parameters are installed. For software that is accessed through programmed in memory at the factory and cannot manufacturer's website or device's management be modified or overridden by third parties. system, describe the different levels of security as 2. Describe the RF parameters that are modified by The Software/Firmware in the device, controls the any software/firmware without any hardware following RF parameters: changes. Are these parameters in some way limited 1. Transmitter Frequency such that any other software/firmware changes will 2. Transmitter Output Power not allow the device to exceed the authorized RF 3. Receiver Frequency characteristics? 4. Channel Bandwidth 5. RSSI calibration The Software/Firmware controls the RF parameters listed above so as to comply with the specific set of regulatory limits in accordance with the FCC grants issued for this device. The RF parameters are limited to comply with FCC rules and requirements during calibration of the device in the factory. Security keys (certification certificates) are in place to ensure that these parameters cannot be access by the User and/or a 3rd party. 3. Describe in detail the authentication protocols The firmware is programmed at the factory and that are in place to ensure that the source of the RFcannot be modified by third parties. related software/firmware is valid. Describe in detail



how the RF-related software is protected against modification.	
4. Describe in detail any encryption methods used to support the use of legitimate RF-related software/firmware.	The firmware is programmed at the factory and cannot be modified by third parties therefore no encryption is necessary.
5. For a device that can be configured as a master and client (with active or passive 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?	This is a client module only.
3rd Party Access Control	1/1/
Explain if any third parties have the capability to operate a U.Ssold device on any other regulatory	3rd party does not have the capability
domain, frequencies, or in any manner that may allow the device to operate in violation of the device's authorization if activated in the U.S.	
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	3rd party does not have the permission
RF parameters are unchanged and how the	
manufacturer verifies the functionality.	
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	Not applicable – this is not a modular device
SOFTWARE CONFIGURATION DESCRIPTION	
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?	No UI provided. None.
b) What parameters are accessible or modifiable by the professional installer or system integrators?	None.
i)Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?	The module micro-code reads the parameters from the module OTP memory. These parameters cannot be modified or overridden by sw drivers.
ii) What controls exist that the user cannot operate the device outside its authorization in the U.S.?	Default mode is always FCC compliant. Other country modes cannot be activated without



	receiving three independent country codes from
	different APs, otherwise remains in FCC default
	mode (always FCC compliant).
c) What parameters are accessible or modifiable by the end-user?	None.
i) Are the parameters in some way limited, so that	The module micro-code reads the parameters
the installers will not enter parameters that exceed those authorized?	from the module OTP memory. These parameters cannot be modified or overridden by sw drivers.
ii) What controls exist that the user cannot operate the device outside its authorization in the U.S.?	Default mode is always FCC compliant. Other
	country modes cannot be activated without
	receiving three independent country codes from
	different APs, otherwise remains in FCC default
	mode (always FCC compliant).
d) Is the country code factory set? Can it be changed in the UI?	Default country code is set in the factory and no
	UI is provided for modification.
i)If it can be changed, what controls exist to ensure	Programmed for default mode which is always
that the device can only operate within its authorization in the U.S.?	FCC compliant. Always set for default for all start-
	ups, resets, timeouts or other host or network
	events.
e) What are the default parameters when the device	Always FCC compliant.
is restarted?	11/57
2. Can the radio be configured in bridge or mesh	No.
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 master and client (with active or passive scanning), if this is	This is a client device.
user configurable, describe what controls exist,	~ X\
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	· 17//-
compliance?	\\'\'\\?
4.For a device that can be configured as different	This device is not an access point.
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))	
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Best Regards

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25_5G Wi-Fi Declaration Letter



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