

Federal Communications Commission

Oakland Mills Road Columbia MD 21046

Model: MDZ-24-AA FCC ID:2ABAFMD3610B IC: 25940-MITVMDZ28AA

Subject: Software security requirements for U-NII device.

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.

18/03/2020

General Description 1. Describe how any software/firmware update Upgrade by OTA, Any software/firmware updates will be obtained, downloaded, and installed. can not Software that is accessed through manufacturer's affect RF parameters. website or device's management system, must describe the different levels of security. 2. Describe all the radio frequency parameters The RF parameters/limits are stored in a that are modified by any software/firmware separate part of the non-volatile storage without any hardware changes. Are these and not updated or changed with the parameters in some way limited, such that, it will firmware updates. not exceed the authorized parameters? 3. Describe in detail the authentication protocols There are currently no authentication that are in place to ensure that the source of the protocols in place to check for a valid software/firmware is legitimate. Describe in detail firmware outside of product registration how the software is protected against and serial number. modification. 4. Describe in detail the verification protocols in Firmware are not encrypted. RF related place to ensure that installed software/firmware is parameters/limits are stored in a sperate legitimate. part of non-volatile storage and are not part of the firmware.

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?	The device is client device without radar detection function	
3rd Party Access Control		
1. Explain if any third parties have the capability to operate a U.Ssold device on any other regulatory domain, frequencies, or in any manner that	Third parties do not have the capability to change radio parameters or country domains.	



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 RF parameters are unchanged and how the manufacturer verifies the functionality.	This device does not permit third-party software or firmware installation and only the permitted person can update the software or firmware via special command.
3. For Certified Transmitter modular devices, describe how the module grantee ensures that hosts manufactures 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 parameters are not modified outside the grant of authorization.	N/A the device is not moduel
SOFTWARE CONFIGURATION DESCRIPTION	
1. To whom is the UI accessible? (Professional installer, end user, other.)	
a) What parameters are viewable to the professional installer/end-user?	This device is not subject to professional installation.
b) What parameters are accessible or modifiable to the professional installer?	N/A-This device is not subject to professional installation.
i) Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?	N/A-This device is not subject to professional installation.
ii) What controls exist that the user cannot operate the device outside its authorization in the U.S.?	N/A-This device is not subject to professional installation.
c) What configuration options are available to the end-user?	



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i) Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?	RF parameter are programmed in flash memory and not accessible to the enduser.
ii) What controls exist that the user cannot operate the device outside its authorization in the	RF parameter are programmed in flash memory and not accessible to the enduser. This includes the country code regulatory parameters.
U.S.?	
d) Is the country code factory set? Can it be changed in the UI?	
i) If so, what controls exist to ensure that the device can only operate within its authorization in the U.S.?	The country code is factory set and can not be changed in the UI.
e) What are the default parameters when the device is restarted?	At each start up the factory configured country code and antenna gain are read from non-volatile memory.
2. Can the radio be configured in bridge or mesh mode? If yes, an attestation may be required. Further information is available in KDB Publication 905462 D02.	Not supported.
3. For a device that can be configured as a 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?	The device is client device without radar detection function.

Best Regards

Name: Wang Kun

Title:

Company: Beijing Xiaomi Electronics Co.,Ltd

Address: Room 707, 7F, Building 5, No 58, Jinghai Fifth Road, Beijing Economic and Technological

Warg-kun

Development Zone, Beijing



E-mail: wangkun_a@xiaomi.com