

Federal Communications Commission Oakland Mills Road Columbia MD 21046 Model: MM3SB3350N3 FCC ID: 2ADQ03SB3350N3 Subject: Software security requirements for U-NII de The information within this section of the Operation Software Security Requirements laid out within KDB	al Description is to show compliance against the
General Description 1. Describe how any software/firmware update will be obtained, downloaded, and installed. Software that is accessed through manufacturer's website or device's management system, must describe the different levels of security.	The software/firmware will be obtained by the factory for production. The updates will not be obtained by the distributor. The software/firmware is a compiled binary, not readable, and no parameters can be changed after the file has been created. The upgrade program verifies the checksum of the binary and installs only if it's a valid one. The upgrade process proceeds automatically once user accepts to update and install.
2. Describe all the radio frequency parameters that are modified by any software/firmware without any hardware changes. Are these parameters in some way limited, such that, it will not exceed the authorized parameters?	RF Parameters are determined by the binary image. The user cannot modify RF parameters.
3. Describe in detail the authentication protocols that are in place to ensure that the source of the software/firmware is legitimate. Describe in detail how the software is protected against modification.	Checksum is used to verify the software/firmware is valid.
4. Describe in detail the verification protocols in place to ensure that installed software/firmware is legitimate.	SFTP for image transmission



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 acting as a master only operate in UNII- 1 and UNII-3 bands and choice one legal channel randomly. And it acting as a client operate in UNII- 1,UNII-2A,UNII-2C and UNII-3 bands	
3rd Party Access Control		
 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 may allow the device to operate in violation of the device's authorization if activated in the U.S. Describe, if the device permits third-party software or firmware installation, what 	No third parties have the capability to operate this device on any regulatory domain frequencies, or in any manner that may allow the device to operate in violation of the device's authorization if activated in the United States Third-party software installation is not permitted on the device.	
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.		
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.	The software is fixed at the factory before sale to host manufactures , host manufacture can't change the software setting.	
SOFTWARE CONFIGURATION DESCRIPTION		
1. To whom is the UI accessible? (Professional installer, end user, other.)	None of the mentioned parameters are viewable, thus not configurable (frequency of operation, power settings, antenna types, DFS settings, receiver thresholds, or country code settings.	



a) What parameters are viewable to the	No parameters are accessible or modifiable by any
professional installer/end-user?	parties.
b) What parameters are accessible or modifiable to the professional installer?	No parameters are accessible or modifiable by professional installers or system integrators.
i) Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?	None of the mentioned parameters are adjustable or viewable.
ii) What controls exist that the user cannot operate the device outside its authorization in the U.S.?	None of the mentioned parameters are adjustable or viewable, thus not configurable.
c) What configuration options are available to the end-user?	None of the mentioned parameters are adjustable or viewable, thus not configurable (frequency of operation, power settings, antenna types, DFS settings, receiver thresholds, or country code settings).
 i) Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized? 	Yes
ii) What controls exist that the user cannot operate the device outside its authorization in the U.S.?	None of the mentioned parameters are adjustable or viewable, thus not configurable (frequency of operation, power settings, antenna types, DFS settings, receiver thresholds, or country code settings).
d) Is the country code factory set? Can it be changed in the UI?	Yes. It cannot be changed in UI.
i) If so, what controls exist to ensure that the device can only operate within its authorization in the U.S.?	None of the mentioned parameters are adjustable or viewable, thus not configurable (frequency of operation, power settings, antenna types, DFS settings, receiver thresholds, or country code settings).
e) What are the default parameters when the device is restarted?	The previously used settings will be loaded.
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.	The radio cannot be operated in bridge or mesh mode.

 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 acting as a master only operate in UNII- 1 and UNII-3 bands and choice one legal channel randomly. And it acting as a client operate in UNII- 1,UNII-2A,UNII-2C and UNII-3 bands, and this is not user configurable.
Best Regards	

Name: Jim Xu

Title: Engineer

Company: GD Midea Air-Conditioning Equipment Co.,Ltd

Address: Lingang, Beijiao ,Shunde FOSHAN CHINA E-mail:

Jimxu2@midea.com

Jim Du