

Date: 2025.03.20

SOFTWARE SECURITY REQUIREMENTS FOR U-NII DEVICES
(594280 D02 U-NII Device Security 1.3,11/12/15)

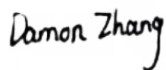
Company Name: Shenzhen Xiaopai Technology Co., Ltd.**FCC ID: 2BM2I-LC2203****Product Name: Smart Camera**

| SOFTWARE SECURITY DESCRIPTION | |
|--------------------------------------|--|
| General Description | |
| Q. | 1. Describe how any software/firmware updates for elements than can affect the device's RF parameters will be obtained, downloaded, validated and installed. For software that is accessed through manufacturer's website or device's management system, describe the different levels of security as appropriate. |
| A. | Software/firmware will be obtained by the factory, downloaded from the ODM website, and installed by the end user. Software is accessed through Web UI when computer is connected. |
| Q. | 2. Describe the RF parameters that are modified by any software/firmware without any hardware changes. Are these parameters in some way limited such that any other software/firmware changes will not allow the device to exceed the authorized RF characteristics? |
| A. | The RF parameters cannot be modified by software. All these parameters will not exceed the authorized parameters. The firmware has been complied as binary file. It couldn't change the setting RF parameter through this binary file. It is read-only without change. |
| Q. | 3. Describe in detail the authentication protocols that are in place to ensure that the source of the RF-related software/firmware is valid. Describe in detail how the RF-related software is protected against modification. |
| A. | No any authentication protocol is used. The RF Parameters is put in read-only partition of EUT's flash and are only installed in the factory. RF parameters including frequency of operation, power setting, modulation type, antenna types or country code setting will be locked in this partition. |
| Q. | 4. Describe in detail any encryption methods used to support the use of legitimate RF-related software/firmware. |
| A. | Software/firmware is digitally signed and encrypted using proprietary handshaking. Need authorized and provisioning protocols. |
| Q. | 5. For a device that can be configured as a master and client (with active or passives canning), explain how the device ensures compliance for each mode? In particular, I the device acts as master in some band of operation and client in another; how is compliance ensure din each band of operation? |
| A. | Not applicable, this device is a client-only device. |

| Third-Party Access Control | |
|--|---|
| 1. Explain if any third part is have the capability to operate a U.S.-sold 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. | No any third parties have the capability to operate a US sold 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. |
| 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. | The RF Parameters is put in read-only partition of EUT's flash and are only installed in the factory. RF parameters including frequency of operation, power setting, modulation type, antenna types or country code setting will be locked in this partition. |
| 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. | N/A, This device is not a modular device. |

| SOFTWARE CONFIGURATION DESCRIPTION | |
|------------------------------------|---|
| USER-CONFIGURATION GUIDE | |
| Q. | 1. Describe the user configurations permitted through the UI if different levels of access are permitted for professional installers, system integrator so end users, describe the differences. |
| A. | Authorized channel, bandwidth, and modulation can be configured through the UI. There are no different levels of access. |
| | a. What parameters are viewable and configurable by different parties? |
| | Authorized channel, bandwidth, and modulation. |
| | b. What parameters are accessible or modifiable by the professional installer or system integrators? |
| | Authorized channel, bandwidth, and modulation. |
| | (1) Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized? |
| | The RF Parameters is put in read-only partition of EUT's flash and are only installed in the factory. RF parameters including frequency of operation, power setting, modulation type, antenna types and setting will be locked in this partition. |
| | (2) What controls exist that the user cannot operate the device outside its authorization in the U.S.? |

| | |
|----|--|
| | The RF Parameters is put in read-only partition of EUT's flash and are only installed in the factory. RF parameters including frequency of operation, power setting, modulation type, antenna types and setting will be locked in this partition. |
| | c. What parameters are accessible or modifiable by the end-user? |
| | Authorized channel, bandwidth, and modulation. |
| | (1)Are the parameters in some way limited, so that the user or installers will not enter parameters that exceed those authorized? |
| | The RF Parameters is put in read - only partition of EUT's flash and are only installed in the factory. RF parameters including frequency of operation, power setting, modulation type, antenna types and setting will be locked in this partition. |
| | (2)What controls exist so that the user cannot operate the device out side its authorization in the U.S.? |
| | The RF Parameters is put in read-only partition of EUT's flash and are only installed in the factory. RF parameters including frequency of operation, power setting, modulation type, antenna types and setting will be locked in this partition. |
| | d. Is the country code factory set? Can it be changed in the UI? |
| | Yes, the country code is set by factory. It cannot be changed in the UI. |
| | (1)If it can be changed, what controls exist to ensure that the device can only operate within its authorization in the U.S.? |
| | The country code cannot be changed in the UI. |
| | e. What are the default parameters when the device is restarted? |
| | RF parameters including frequency of operation, power setting, modulation type, country code are the default parameters which will be set to the default factory settings when the device is restarted. |
| Q. | 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 905462D02. |
| A. | No, this device cannot be configured in both bridge and mesh mode. |
| Q. | 3. For a device that can be configured as a master and client (with active passives canning), 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? |
| A. | Not applicable, this device is a client-only device. |
| Q. | 4. For a device that can be configured as 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. |
| A. | This device cannot be configured as different types of access points. |

Signature: 

Client's name / title: Damon Zhang / Certification Engineer