Company: Harman International Industries, Inc

Address: 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

Product Name: Multi-Channel Soundbar

Model Number(s): BAR 300

FCC ID: APIBAR300

SOFTWARE SECURITY REQUIREMENTS FOR U-NII DEVICES				
REF KDB 594280 D02 U-NII Device Security v01r03				
General Description	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. 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 nay other software/firmware changes will not allow the device to exceed the authorized RF characteristics? 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. 4. Describe in detail any encryption methods used to support the use of legitimate RF-related software/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	We do not release the firmware on our website for downloading. Our direct host manufacturer (OEM) can request the firmware from us and it will be made available via secure server. N/A The firmware binary is encrypted. The process to flash a new firmware is using a secret key to decrypt the firmware, only correct decrypted firmware is stored in non-volatile memory (see #3). Standard open SSL encryption is used (see #3). The device ensures the compliance by checking the configured parameter and operation values according to the regulatory domain and country code in each band.		
	operation and client in another; how is compliance ensured in each band of operation?			
Third-Party	Explain if any third parties have the capability to operate a U.Ssold device on	No, third parties don't have the capability to access and change radio parameters. US		

Access	any other regulatory domain, frequencies, or	sold modules are factory configured to US.
Control	in any manner that may allow the device to	
Control	operate in violation of the device's	
	authorization if activated in the U.S.	
	2. Describe, if the device permits third-party	The embedded software is protected via the
	software or firmware installation, what	measures explained in the previous section.
	mechanisms are provided by the	Distributions of host operating software are
	manufacturer to permit integration of such	encrypted with a key.
	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,	N/A
	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.	

	 Describe the user configurations 	There is no user configuration GUI.
	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	There is no user configuration GUI.
	configurable by different parties?	
User Configuration Guide	b) What parameters are accessible or	This device is not subject to professional
	modifiable by the professional installer or	installation
	system integrators?	
	(1) Are the parameters in some way	
	limited, so that the installers will not enter	
	parameters that exceed those authorized?	
	(2) What controls exist that the user	
	cannot operate the device outside its	
	authorization in the U.S.?	
	c) What parameters are accessible or	The end user is not able to configure any
	modifiable to by the end-user?	parameters related to the devices radio
	(1) Are the parameters in some way	The parameters can only be changed
	limited, so that the user or installers will	remotely within the limits of country code
	not enter parameters that exceed those	US.
	authorized?	The country code and regulatory domain

(2) What controls exist that the user	control do limit all the parameters set
cannot operate the device outside its	control do limit dil the parameters set
authorization in the U.S.?	
d) Is the country code factory set? Can it	The country code is factory set and is never
be changed in the UI?	changed by UI.
(1) If it can be changed, what controls	changed by Oi.
exist to ensure that the device can only	
operate within its authorization in the	
U.S.?	
0.0.1	The country and infrateward and in group
e) What are the default parameters when	The country code is factory set and is never
the device is restarted?	changed by UI.
2. Can the radio be configured in bridge or	Not supported
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	Not Supported
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	The device does not support these
different types of access points, such as	modes/features.
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,

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Date: 2022-05-09

