Software Security Declaration

FCC ID : 2AAWQ-PS10SPEAKER

	SOFTWARE SECURITY DES	CRIPTION
General	1. Describe how any software/firmware	Phorus provides software updates via a
Description	updates for elements than can affect the	secure storefront. A comprehensive
	device's RF parameters will be obtained,	security system ties software directly to
	downloaded, validated and installed.	a particular hardware device via an
	For software that is accessed through	encrypted digital certificate.
	manufacturer's website or device's	
	management system, describe the	
	different levels of security as appropriate.	
	2. Describe the RF parameters that are	All the radio frequency parameters are
	modified by any software/firmware	Transmit power, operating channel,
	without any hardware changes. Are	modulation type.
	these parameters in some way limited	Only authorized parameters are available
	such that any other software/firmware	and can be set in software which are
	changes will not allow the device to	only calibrated at time of manufacture.
	exceed the authorized RF characteristics?	
	3. Describe in detail the authentication	The software update files are digitally
	protocols that are in place to ensure that	signed at the time of creation. The
	the source of the RF-related	certificates are checked against unique
	software/firmware is valid. Describe in	codes that are programmed into
	detail how the RF-related software is	hardware at time of manufacture.
	protected against modification.	Software that has not been
		authenticated with the proper digital
		certificates cannot be loaded or
		executed on the hardware.
	4. Describe in detail any encryption	RF-related software is packed into WiFi
	methods used to support the use of	driver, which only can be entered via
	legitimate RF-related software/firmware.	manual commands only by phorus
		designer and phorus controlling tool.
	5. For a device that can be configured as a	The device has been tested in client
	master and client (with active or passive	modes.
	scanning), explain how the device	The software has been validated and is
	ensures compliance for each mode? In	controlled via our release process
	particular if the device acts as master in	ensuring correct functionality.
	some band of operation and client in	

another; how is compliance ensured in	
each band of operation?	

	SOFTWARE SECURITY DES	SCRIPTION
Third-Party	1. Explain if any third parties have the	There is no capability to change any
Access	capability to operate a U.Ssold device on	parameter that would make the device
Control	any other regulatory domain,	violate the certification. No interface for
	frequencies, or in any manner that may	third parties to set parameters.
	allow the device to operate in violation of	
	the device's authorization if activated in	
	the U.S.	
	2. Describe, if the device permits	There are not non-US versions of the
	third-party software or firmware	software for third parties and in any case
	installation, what mechanisms are	all software loads are securely controlled
	provided by the manufacturer to permit	as indicated above.
	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.	
	Note : See, for example, www.XXXXX.com/	
	3. For Certified Transmitter modular	Module is controlled through driver
	devices, describe how the module	loaded in the host, which is packed into
	grantee ensures that host manufacturers	the released software to manufacture
	fully comply with these software security	properly with device, and there is no way
	requirements for U-NII devices. If the	to modify transmitter parameters from
	module is controlled through driver	software outside the grant of
	software loaded in the host, describe how	authorization.
	the drivers are controlled and managed	
	such that the modular transmitter RF	
	parameters are not modified outside the	
	grant of authorization.	

Note that Certified Transmitter Modules must have	
sufficient level of security to ensure that when	
integrated into a permissible host the device's RF	
parameters are not modified outside those approved in	
the grant of authorization. (See, KDB Publication	
99639). This requirement includes any driver software	
related to RF output that may be installed in the host,	
as well as, any third-party software that may be	
permitted to control the module. A full description of	
the process for managing this should be included in the	
filing.	

SOFTWARE SECURITY DESCRIPTION		
USER	1. Describe the user configurations	The end user can only select a band.
CONFIGURATION	permitted through the UI. If different	
GUIDE	levels of access are permitted for	
	professional installers, system	
	integrators or end-users, describe the	
	differences.	
	a. What parameters are viewable and	The end user can only select a band.
	configurable by different parties? Note: The specific parameters of interest for this purpose are those that may impact the compliance of the device (which would be those parameters determining the RF output of the device). These typically include frequency of operation, power settings, antenna types, DFS settings, receiver thresholds, or country code settings which indirectly programs the operational parameters.	
	b. What parameters are accessible or	The end user can only select a band.
	modifiable by the professional installer	
	or system integrators?	
	(1) Are the parameters in some way	No parameters are available for
	limited, so that the installers will not	adjustment.
	enter parameters that exceed those	
	authorized?	
	(2) What controls exist that the user	No UI is available for this access.
	cannot operate the device outside its	
	authorization in the U.S.?	
	c. What parameters are accessible or	Band selection.
	modifiable by the end-user?	
	(1) What parameters are accessible or	Band selection.
	modifiable by the end-user?	
	(2) What controls exist so that the user	No UI is available for this access.
	cannot operate the device outside its	
	authorization in the U.S.?	
	d. Is the country code factory set? Can it	Yes, country code is set by factory via a
	be changed in the UI?	region code setting which 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.?	
e. What are the default parameters	The device goes to a default (approved)
when the device is restarted?	Tx channel and power level based on
	factory setting which is set as
	authorization in the U.S.

SOFTWARE SECURITY DESCRIPTION		
USER	2. Can the radio be configured in bridge	No.
CONFIGURATION	or mesh mode? If yes, an attestation	
GUIDE	may be required. Further information	
	is available in KDB Publication 905462	
	D02.	
	3. For a device that can be configured as	This device is just a client, the user
	a master and client (with active or	cannot arbitrarily change themselves.
	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 access
	different types of access points, such as	points but behave as client only.
	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))	