Federal Communication Commission Equipment Authorization Division, Application Processing Branch 7435 Oakland Mills Road Columbia, MD 21048

<2016-04-08>

Attn: Office of Engineering and Technology Subject: Attestation Letter regarding UNII devices

FCC ID: 2AGKH-PD-RC01-0103 Prodrone Remote Controller : CME01-M2

Software security questions and answers per KDB 594280 D02:

501000	Software Security description – General Description				
1	Describe how any software/firmware update will We do not release the				
1	*	firmware on our website			
	be obtained, downloaded, and installed. Software				
	that is accessed through manufacturer's website	for downloading. Our			
	or device's management system, must describe	direct host manufacturer			
	the different levels of security.	(OEM) can request the			
		firmware from us and it			
		will be made available via			
		secure server.			
2	Describe all the radio frequency parameters that	Radio frequency			
	are modified by any software/firmware without	parameters are limited by			
	any hardware changes. Are these parameters in	US regulatory domain and			
	some way limited, such that, it will not exceed	country code to limit			
	the authorized parameters?	frequency and transmit			
		power levels. These limits			
		are stored in non-volatile			
		memory by the module			
		manufacturer at the time of			
		production. They will not			
		exceed the authorized			
		values.			
3	Describe in detail the authentication protocols	The firmware is installed			
	that are in place to ensure that the source of the	on each single module			
	software/firmware is legitimate. Describe in	during manufacturing			
	detail how the software is protected against	process. The correct			
	modification	firmware is verified and			
		installed by the module			
		manufacturer.			
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		binary is encrypted using open SSL encryption and the firmware updates can only be stored in non-volatile memory when the firmware is authenticated.  The encryption key is known by the module manufacturer only.
4	Describe in detail the verification protocols in place to ensure that installed software/firmware is legitimate	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).
5	Describe in detail the verification protocols in place to ensure that installed software/firmware is legitimate	Standard open SSL encryption is used (see #3).
6	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?  Software Security description – Third-Party	The device ensures the compliance by checking the configured parameter and operation values according to the regulatory domain and country code in each band.  Access Control
1	How is unauthorized software/firmware changes prevented?	Unauthorized firmware is not accepted by the firmware update process. See General Description #5, #3
2	Is it possible for third parties to load device drivers that could modify the RF parameters, country of operation or other parameters which impact device compliance? If so, describe procedures to ensure that only approved drivers are loaded.	The embedded software is protected via the measures explained in the previous section. Distributions of host operating software are encrypted with a key.
3	Explain if any third parties have the capability to operate a US sold device on any other regulatory domain, frequencies, or in any manner that is in	No, third parties don't have the capability to access and change radio

violation of the certification.  parameters. US sold modules are factory configured to US.  What prevents third parties from loading non -US versions of the software/firmware on the device?  For modular devices, describe how authentication is achieved when used with different hosts.  The module is not available for sale or installation outside of company licensing agreements. Modules are always installed in host
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installation outside of company licensing agreements. Modules are
company licensing agreements. Modules are
agreements. Modules are
always installed in host
systems in a factory by end
integrators (OEM)
responsible for loading
authorized software.
Software Security description – USER CONFIGURATION GUID
To whom is the UI accessible? (Professional The UI is accessible to
installer, end user, other.) anyone using the device.
a. What parameters are viewable to the Various device status
professional installer/end user? information is made
available like log
information, connection
status, operation mode,
operation frequency, etc.
Radio parameters are
described in c.i
b. What parameters are accessible or modifiable This device is not subject
to the professional installer? to professional installation
i. Are the parameters in some way
limited, so that the installers will not
enter parameters that exceed those
authorized?
ii. What controls exist that the user
cannot operate the device outside its
authorization in the U.S.?
c. What configuration options are available to The end user is able to
the end-user? configure the operation
frequency, modulation,
reduce the output power
levels etc. The end user
cannot change the antenna
cannot change the antenna

	i. ii.	Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?  What controls exist that the user cannot operate the device outside its authorization in the U.S.?	gain and country code, those settings are programmed at factory production time.  Yes, the parameters can only be changed within the limits of country code US.
			The country code and regulatory domain control do limit all the parameters set by UI
		country code factory set? Can it be ed in the UI?	The country code is factory set and is never changed by 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 is never changed by UI
		are the default parameters when the e is restarted?	At each boot up the country code and the antenna gain are read from the non-volatile memory, those values are configured during module production.
2	mode? If Further in	adio be configured in bridge or mesh yes, an attestation may be required. If a station is available in KDB on 905462 D02.	Not supported
3	and client this is use exist, with each mod bands and	ice that can be configured as a master (with active or passive scanning), if or configurable, describe what controls in the UI, to ensure compliance for e. If the device acts as a master in some I client in others, how is this configured compliance?	No end user controls or user interface operation to change master/client operation.
4	types of a point-to-r	ice that can be configured as different ccess points, such as point-to-point or nultipoint, and use different types of describe what controls exist to ensure	The device does not support these modes/features.

compliance with applicable limits and the proper antenna is used for each mode of operation. See

## Sincerely

Country and City:	Date:	Name:	Function:	Signature:
		(this must be a person)		(or official company stamp)
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