

Jiangsu Toppower Automotive Electronics Co.,Ltd 江苏天宝汽车电子有限公司

Federal Communications Commission

2019-10-15

Oakland Mills Road Columbia MD 21046

Model: ZS11E, ZS11MCE3 FCC ID: 2AFIXISMART Product name:ISMART1.0

Subject: Software security requirements for U-NII device.

The information within this section of the Operational Description is to show compliance against the Software Security Requirements laid out within KDB 594280 D02 U-NII Device Security v01r03.

General Description	
1. Describe how any software/firmware update	The user or installer cannot modify the
will be obtained, downloaded, and installed.	software/firmware contect.
Software that is accessed through manufacturer's	FW version will only be deployed over the air.
website or device's management system, must	The cloud platform can push a new firmware
describe the different levels of security.	version to the device when it is available.
2. Describe all the radio frequency parameters that	WiFi channel area code ID is only set in factory, all
are modified by any software/firmware without	RF parameters (include Frequency range,
any hardware changes. Are these parameters in	transmitter output power etc.) cannot be access
some way limited, such that, it will not exceed the	by the user.
authorized parameters?	
3. Describe in detail the authentication protocols	The firmware is programmed at the factory and
that are in place to ensure that the source of the	cannot be modified by third parties.
software/firmware is legitimate. Describe in detail	, '
how the software is protected against	
modification.	
4. Describe in detail the verification protocols in	The software/firmware is legitmate.
place to ensure that installed software/firmware is	,
legitimate.	
5. Describe in detail any encryption methods used	The firmware is programmed at the factory and
to support the use of legitimate	cannot be modified by third parties therefore no
software/firmware.	encryption is necessary.
6. For a device that can be configured as a master	This is a client device only.
and client (with active or passive scanning), explain	This is a sheric devise only.
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?	
3 rd Party Access Control	<u> </u>
Explain if any third parties have the capability to	No, third party have no the capability.
operate a US sold device on any other regulatory	into, time party have no the capability.
, , , , , , , , , , , , , , , , , , , ,	
domain, frequencies, or in any manner that is in violation of the certification.	
	The figure ways is progressed at the factory of
2. What prevents third parties from loading non-	The firmware is programmed at the factory and
US versions of the software/firmware on the	cannot be modified by third parties.



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device? Describe in detail how the device is protected from "flashing" and the installation of third party firmware such as DD WPT.		
third-party firmware such as DD-WRT.		
3. For Certified Transmitter modular devices,	No applicable	
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.		
SOFTWARE CONFIGURATION DESCRIPTION		
1. To whom is the UI accessible? (Professional	No UI provided	
installer, end user, other.)	·	
a) What parameters are viewable to the	No parameters	
professional installer/end-user?	,	
b) What parameters are accessible or modifiable	No parameters	
to the professional installer?	No parameters	
	Voc	
i) Are the parameters in some way limited, so that	Yes	
the installers will not enter parameters that		
exceed those authorized?		
ii) What controls exist that the user cannot	Firmware does not provide any interface to user to	
operate the device outside its authorization in the	operate outside its authorization.	
U.S.?		
c) What configuration options are available to the	No parameters	
end-user?		
i) Are the parameters in some way limited, so that	Yes	
the installers will not enter parameters that		
exceed those authorized?		
ii) What controls exist that the user cannot	Firmware does not provide any interface to user to	
operate the device outside its authorization in the	operate outside its authorization	
U.S.?	operate outside its authorization	
	Vos	
d) Is the country code factory set? Can it be	Yes.	
changed in the UI?	No.	
i) If so, what controls exist to ensure that the	None	
device can only operate within its authorization in		
the U.S.?		
e) What are the default parameters when the	Same as factory set.	
device is restarted?		
2. Can the radio be configured in bridge or mesh	No	
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 master	This is a client device	
3. I of a device that can be configured as a master	THIS IS A CHEFIC ACTION	



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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?	

Best Regards

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