

## **FCC Cross-Reference**



45 Sale Street, Level 1, Freemans Bay 1010  
PO Box 91164, Victoria Street West 1142  
Auckland, New Zealand

Phone: +64 (0)9 950 4848  
Fax: +64 (0)9 950 4085

[www.vespermarine.com](http://www.vespermarine.com)

## Version History

Version	Date	Comment	Author
1	6.11.2017		

## Copyright Notice

Copyright © 2017, Vesper Marine Ltd. All rights are reserved.

The information contained within this document is the copyright of Vesper Marine Ltd

No part of this document may be disclosed, reproduced or transmitted in any form, or by any means without the written permission of Vesper Marine Ltd. The term document extends to all forms of media in which information may be embodied.

## Introduction

This report provides a cross reference between the standard FCC part 15c and EN 300 328.

## Product Family Identification

Products	WatchMate Vision, XB-8000
Trade Name	Vesper Marine Ltd
Model Name	XB9010, XB8010
Intended Users	General Public
Equipment type	Fixed (Not portable), Exposed to Weather
Power Supply	12 – 24V DC
AIS Frequency Range	161.500 – 162.025 MHz Tx 156.025 – 162.025 MHz Rx
AIS Transmit Power	33dBm (2W)
Modulation Technique	FM GMSK
Channel Spacing	25 KHz
Temperature Range	-25 - +55 deg C
GPS Antenna	Internal path antenna (with connection for optional external antenna)
WiFi	802.11 b/g/n
WiFi Antenna	SMT PCB
WiFi Power Output	15 dBm
Enclosure	IPX7
Firmware Version	V5.19
Equipment Category	Exposed

FCC ID: YJDVESPB8010, YJDVESPB9010

Model Number: XB9010, XB8010

EN 300 328	FCC Part 15 C
Transmission in the spurious domain  EN 300 328 V2.2.1 4.3.2.9	Radiated Emission Limit  FCC 47 CFR 15.249, FCC 47 CFR 15.209
Receiver Blocking  EN 300 328 V2.2.1 4.3.2.11	N/A

## Technical Justification:

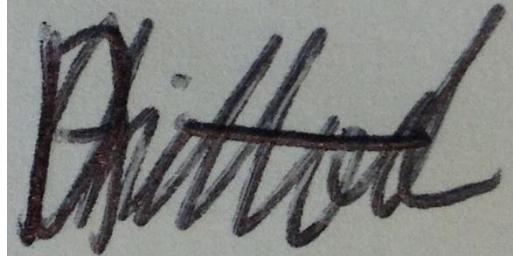
The new Wi-Fi module has full modular certification for FCC. The testing done shows that there isn't any degradation in the performance of the module with the change in antenna.

The EN 300 328 4.3.2.9 test covers the FCC 47 CFR 15.249 and 15.209. The tests both look at the RF power over a similar frequency range and with comparable test set ups. As the tests are similar in these ways the EN 300 328 partial test report can be used to cover FCC 47 CFR 15.249 and FCC CFR 15.209.

Date: 11/7/2017

Name: Henry Chittock

Signature:

A handwritten signature in black ink, appearing to read "Chittock", is placed over a light gray rectangular background.