



# Notified Body Statement of Opinion

No. THER2 12 09 73901 002

**Certificate Holder:** **Vesper Marine Ltd**

103 Westhaven Drive  
 St Marys Bay  
 1010 Auckland  
 NEW ZEALAND

**Product:** **Marine Radio Equipment  
 AIS Class B Transponder with WLAN**

**Model(s):** **XB9000  
 XB8000  
 XB6000**

**Technical data:** TCF No: XB Series Ver 1

In accordance with Annex IV of European Union Council Directive 1999/5/EC on radio equipment and telecommunications terminal equipment, our opinion is that the equipment identified above and described in the Annex to this statement of opinion complies with the requirements of the above Directive as stated in the articles 3.1, 3.2 and 3.3.

**BABT File number:** NC16912 i01

**Date,** 2012-09-27 ( Les Rowland )

TÜV SÜD BABT is appointed as a Notified Body, with the identification number 0168, in accordance with the Council Directive 1999/5/EC for radio equipment and telecommunications terminal equipment. The CE marking and the TÜV SÜD BABT 0168 identification number may be used on the equipment described above, subject to the equipment meeting the compliance requirements of all applicable EU directives. This Statement of Opinion has been issued in accordance with the Certification Regulations of TÜV SÜD BABT. For further details related to this Statement of Opinion please contact [Customer.Services@BABT.com](mailto:Customer.Services@BABT.com)



## R&TTE Annex IV Notified Body Opinion

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### Description of Equipment

<i>Intended Use:</i>	Fixed marine transponder with GPS receiver and 802.11b/g transceiver for use onboard non-SOLAS vessels.
<i>Variants:</i>	WatchMate Vision model XB9000 Model XB8000 without touch screen Model XB6000 without WiFi and touch screen
<i>Class of Equipment:</i>	Class 2
<i>Frequency Band(s):</i>	Transmitter: 161.500 – 162.025 MHz Receiver: 156.025 – 162.025 MHz GPS: 1575.26 MHz WiFi: 2412.0 MHz – 2462.0 MHz
<i>Type of modulation:</i>	FM GMSK DSSS / CCK
<i>Channel Spacing(s):</i>	25 kHz 5 MHz (WiFi)
<i>Designation of Emissions:</i>	25K0FXDXT 11M0F1D (WiFi)
<i>Transmit Power:</i>	Conducted, 2.187 W max Conducted 0.003 / 0.017 W max (WiFi)
<i>Duty Cycle:</i>	0.02667s ON, 29.973s OFF: 0.08898% 100% (WiFi)



## Standards

R&TTE Article 3.1(a)	EN 50385: 2002 EN 50383: 2002 EN 60950-1: 2001 IEC 60945: 2002-08
R&TTE Article 3.1(b)	EN 301 843-1 v1.2.1 (2004-06) IEC 60945: 2002-08 EN 301 489-17 V2.1.1 (2009-05)
R&TTE Article 3.2	IEC 62287-1: 2006-03 Clause 11, for the AIS transmitter and receivers IEC 62287-1: 2006-03 Annex C, Clause C4, for the DSC receiver IEC 61108-1: 2003-07 Clauses 4.3.7 & 4.3.8, for the GPS receiver EN 300 328 V1.7.1 (2006-10), for the 802.11b/g transceiver
R&TTE Article 3.3	IEC 62287-1: 2006-03 Clause 9, for operation in intended environment IEC 62287-1: 2006-03 Clauses 10, 12,13 for operational requirements

## Relevant Technical Documentation

**Supplier's Declaration(s) of Conformity:** R&TTE dated 2012-09-07

**User Guides:** WatchMate®VISION INSTALL GUIDE dated 2012-09-06  
XB-8000 / XB-6000 QuickStart guide dated 2012-09-03

### **Test report numbers:**

R&TTE Article 3.1(a) [Health and Safety]

**Test Report Numbers:** EN 60950-1: 2001 Safety Compliance review dated 2012-09-12  
MPE calculations performed by Vesper Marine dated 2012-09-11

R&TTE Article 3.1(b) [EMC]

**Test Report Numbers:** 120325.4 dated 2012-08-08  
120325.5 dated 2012-08-18  
R0708036-12 dated 2007-09-27





R&TTE Article 3.2 [Spectrum Usage]

*Test Report Numbers:* 100715.2 dated 2010-10-12  
120325.2 dated 2012-08-15  
R0708036-11 dated 2006-09-26  
BSH/46121/4322190/12-2 dated 2012-09-07  
BSH/46162/4321414/10 dated 2010-10-12

R&TTE Article 3.3 [Access to emergency services]

*Test Report Numbers:* BSH/46162/4322189/12 dated 2012-08-30  
IEC62287\_Section9\_README.pdf dated 2012-09-12  
120325.4 dated 2012-08-08  
HSVCR90113 dated 2012-09-04  
HSVCR90117 dated 2012-09-13

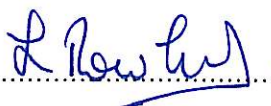
**Approved Software:** Firmware Version V5.06

**Approved Hardware:** Overall Build Level: Rev.E  
Circuit Diagram: UIP\_Sch.pdf , REV. C, 2012-08-17  
WMX850\_Sch.pdf, REV. E, 2012-08-12  
Parts List: UIP\_BOM.pdf, 2012-09-07  
WMX850 BOM(XB).pdf, 2012-09-07

**Additional Information:**

Compliance with the R&TTE directive will depend upon installation conditions and how the equipment exists in its final form. Positioning of the equipment must be such as to ensure that the equipment is protected from the ingress of water. This responsibility resides with the system installer.

Compliance with Article 3.2 of the R&TTE Directive 1999/5/EC does not of itself give an automatic presumption of conformity with National Radio Spectrum Standards. It is therefore mandatory for this equipment to be notified to the relevant national authority responsible for spectrum management 4 weeks before placing it on the market in accordance with Article 6.4 of the R&TTE Directive 1999/5/EC.

Signed: .....  .....  
on behalf of BABT

Date: 27th September 2012.