

EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB
Notified Body Number **0700**

Recognised by:



BNetzA-bS-02/51-55/1

This is to certify that:

PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	22-110873 - 22-121881
Manufacturer	Alltek Marine Electronics Corp.
Address	14F-2, No. 237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 22161, Taiwan
Product Description	AIS Man Overboard Beacon with GPS
Brand Name / Model Name	FastFind / Crew1 AIS MOB (Z620)

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	Conform
Article 3.1 b): Electromagnetic Compatibility	Conform
Article 3.2: Effective and Efficient Use of Radio Spectrum	Conform
Additional Essential Requirements:	
Article 3.3 g) Access to emergency services	Conform

Date of issue: **2022-05-27** Expiry date: **2027-05-26**

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

The attached Annex forms part of this certificate. This certificate consists of 4 pages.



Signed by Klaus Knörig
Notified Body

Annex

Technical description

Frequency Range	161.975 and 162.025 MHz (AIS1 and AIS2) 1575.42 MHz (GPS, receive-only)
Transmit Power	2 W (33 dBm +/- 1.5 dB) conducted (AIS Transponder) 693.43 mW max. ERP (AIS Transponder)
Hardware Version	M-PCB-AISMOBV5
Software Version	V1.1
Operating temperature range	-20°C to +55°C

System Components

Main Unit	AIS Man Overboard Beacon
Battery	6 V DC Battery pack (2 x CR14505), Lithium Manganese Dioxide
GPS antenna	Internal
VHF antenna	Internal

Approval documentation

External / Internal Photos	Internal & External Photos of FastFind Z620
User Manual	FastFind Crew1 User Guide, Version 1.0
Block Diagram	Block Diagram
Circuit Diagram	Schematic, M-PCB-AISMOBV5, Rev. V5
Operational Description	Operational Description
PCB Layout and Parts Placement	PCB Layout
Parts List	Parts list
Battery Specification	Approval Sheet, Reference No. FAT4CR01, 2015-02-03 Drawing of battery pack, FT-BZT-1793 001906, 2014-09-03
EU Declaration of Conformity	Declaration of EU Conformity for FastFind Z620 (Draft)
Explanation of compliance Article 10(2) and Article 10(10)	Declaration of compliance with Article 10(2) & Article 10(10)
Further Documents	Declaration of Equivalence for FastFind Z620 Risk assessment of AIS MOB Model Z620 Declaration Letter of compliance with ETSI EN 303 098 V2.2.1 Hardware and Software information letter

Applied Standards and Test Reports

Specification	Laboratory	Test Report Number
IEC 62368-1:2014 EN 62368-1:2014+A11:2017	SGS Taiwan	RL/2020/70013
EN 62311: 2008	Compliance Certification Services	T140917W03-2
EN 50385:2002 EN 50383:2010	Compliance Certification Services	T140917W03-1
IEC 60945:2002 + Cd.1:2008, Clauses 9, 10	Compliance Certification Services	T130917W03-E
EN 303 098-1 V1.2.1 (2014-09) EN 303 098-2 V1.2.1 (2014-09)	TÜV SÜD	75924733 Report 02 Issue 3
EN 303 098 V2.1.1, Clause 4.2-4.5, 4.7, 5.2.1-5.2.6, 7.5.5 (RTCM 11901.1:2012 and IEC 60945:2002 + Corrigendum 1:2008)	TÜV SÜD	75928479 Report 03 Issue 1
EN 303 098-1 V1.2.1 (2014-09), Clause 7.4 (drop on wood), 7.5.2- 7.5.4, 7.6-7.8, 7.13	SGS	HCO0029C/2013
EN 303 098-1 V1.2.1 (2014-09), Clause 7.4 (drop on water), 7.9, 7.12	TÜV SÜD	75924733 Report 02 Issue 3
EN 303 098-1 V1.2.1 (2014-09), Clause 7.10 (compass safe distance)	BSH	Certificate No. 853, 2013-12-10
EN 303 098-1 V1.2.1 (2014-09), Clause 7.11 (solar radiation)	TÜV SÜD	7191076417-CHM13- CCK
IEC 61108-1:2003	BSH	BSH/4543/4143083/16
EN 303 098 V2.2.1, clause 7.13	SGS Taiwan	HC60140A/2020

Limitations / Restrictions

- None -

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.
2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.
3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.
4.  The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.
5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.