



UK Approved Body Authorised
by the MCA



Marine Equipment UK Assessment Module B Type Examination Certificate

This is to certify that TUV SUD BABT UNLIMITED did undertake the relevant type approval procedures for the type of equipment identified below, which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, under Annex 1 of the listed Amendment of MSN 1874 for the types of equipment identified.

| | |
|--|--|
| MSN 1874 Amendment | Amendment 9 |
| Certificate Holder and Manufacturer | Alltek Marine Electronics Corporation, 14F-2, No.237, Sec. 1, Datong Rd., Xizhi District, New Taipei City, Taiwan 22161 |
| Authorised Representative | McMurdo Ltd. Holbrook Court, E1 Cumberland Business Centre, Northumberland Road, Southsea, Hampshire, PO5 1DS, UK |
| Product(s) | Z611 (SMARTFIND M6) |
| Product Sector | Navigation equipment |
| Product Type | UK/4.32 Universal automatic identification system equipment (AIS) |

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 17 October 2024

(M J Hardy)

Expiry Date: 16 October 2029

TÜV SÜD BABT is a UKAS accredited Certification Body No. 0172.
This certificate has been issued in accordance with the TÜV SÜD Testing, Certification, Validation and Verification Regulations and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.
For further details related to this certification please contact BABT@tuvsud.com



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Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

1 Equipment Description

Universal automatic identification system equipment (AIS)

1.1 Models

| Model |
|---------------------|
| Z611 (SMARTFIND M6) |

1.1.1 System Components

| Model | Description |
|--------|----------------------|
| Z611 | McMurdo SMARTFIND M6 |
| GA-25 | GPS Antenna |
| JB-712 | Junction Box |

1.2 Software Note 1

| Identity | Description |
|----------|-------------|
| Software | V2 |

2 Assessed Requirements

2.1 MSN 1874 Amendment 9 Annex 1 Notes 2&3

2.2 Compliance Requirements for UK/4.32 Row 2 of 2

| Type approval requirements | Carriage and Performance Requirements |
|---|---|
| SOLAS 74 Reg V/18 SOLAS 74 Reg X/3 IMO Res MSC.36(63)-(1994 HSC Code) 13 IMO Res MSC.97(73)-(2000 HSC Code) 13 | SOLAS 74 Reg V/19 IMO Res A.694(17) IMO Res MSC.36(63)-(1994 HSC Code) 13 IMO Res MSC.97(73)-(2000 HSC Code) 13 IMO Res MSC.74(69) IMO Res MSC.191(79) IMO Res MSC.302(87) ITU-RM 1371-5 (02-2014) |
| Assessed Testing Standards | |
| IEC 60945:2002 incl. 60945 corr.1:2008 | IEC 61162-1:2016 |
| IEC 61162-2 Ed.1.0:1998-09 | IEC 61162-450:2018 |
| IEC 61993-2:2018 | IEC 62288 Ed 3.0:2021 |
| IEC 62923-1:2018 | IEC 62923-2:2018 |

3 Technical Documentation

3.1 Declaration of Conformity

Declaration of Conformity for McMurdo M6 (DOC-M6-V002) Modified 2024-07-23

3.2 User Guide

McMurdo M6 Installation Manual 21-435-002 issue 2 Dated 2024-04-30
McMurdo M6 Operator Manual 21-435-001 issue 3 Dated 2024-04-30

Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

3.3 Test Reports

3.3.1 IEC 60945:2002 incl. 60945 corr.1:2008

| | | |
|--------------------------------|--------|------------|
| 2210620R-E3012100074-A | Issued | 2022-07-06 |
| HCO0112A/2021 | Dated | 2021-12-14 |
| HCO0046B/2021 | Dated | 2021-12-14 |
| HC20023A/2013 | Dated | 2013-03-20 |
| 21-11-EAT-053-E03 | Issued | 2022-04-07 |
| WD-A750-01 | Dated | 2023-03-21 |
| Bescheinigung_1103a | Dated | 2022-01-05 |
| HCO0046A/2021 | Dated | 2021-11-08 |
| Waiver Document_A750 2023_0321 | Dated | 2023-03-21 |
| HC70065E/2021 | Dated | 2021-12-14 |
| HC70065C/2021 | Dated | 2021-09-07 |
| 21-11-EAT-053-E02 | Issued | 2022-04-07 |
| IEC 60945 Software development | Dated | 2023-02-20 |
| BSH/454.AIS-A/AMEC A750/1_e | Dated | 2023-03-21 |
| F220214E1 | Issued | 2022-04-22 |

3.3.2 IEC 61162-1:2016 and IEC 61162-2 Ed.1.0:1998-09

| | | |
|---------------------------|-------|------------|
| BSH/454.AIS-A/AMEC A750/1 | Dated | 2022-10-06 |
|---------------------------|-------|------------|

3.3.3 IEC 61162-450:2018

| | | |
|------------------------------|-------|------------|
| BSH/454.AIS-A/ AMEC A750/1_b | Dated | 2023-03-08 |
|------------------------------|-------|------------|

3.3.4 IEC 62288 Ed 3.0:2021

| | | |
|-----------------------------|-------|------------|
| BSH/454.AIS-A/AMEC A750/1_e | Dated | 2023-03-21 |
|-----------------------------|-------|------------|

3.3.5 IEC 62923-1:2018 and IEC 62923-2:2018

| | | |
|-----------------------------|-------|------------|
| BSH/454.AIS-A/AMEC A750/1_c | Dated | 2022-09-28 |
| BSH/454.AIS-A/AMEC A750/1 | Dated | 2023-03-10 |

3.3.6 IEC 61993-2:2018

| | | |
|---------------------------|--------|------------|
| BSH/454.AIS-A/AMEC A750/1 | Dated | 2023-03-10 |
| F220214E1 | Issued | 2022-04-22 |
| BSH/454.GNSS/AMEC WL A750 | Dated | 2021-12-10 |
| BSH/4543/001/4143083/16 | Dated | 2016-12-07 |

3.4 Build Status

3.4.1 Hardware

| | | |
|------------------|----------|------------|
| M-PCB-A750DCBV3 | Dated | 2022-10-13 |
| M-PCB-A750USBV1 | Dated | 2022-10-13 |
| M-PCB-A750PWR-V1 | Dated | 2022-10-12 |
| M-PCB-A750SDV1 | Dated | 2022-10-13 |
| M-PCB-A750MBV3 | Dated | 2022-10-13 |
| Parts list_DCB | Modified | 2024-07-23 |
| Parts list_MB | Modified | 2024-07-23 |
| Parts list_Power | Modified | 2024-07-22 |
| Parts list_SD | Modified | 2024-07-22 |
| Parts list_USB | Modified | 2024-07-22 |

Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

3.5 Notes

- Note 1 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing, Certification, Validation and Verification Regulations.
- Note 2 The Z611 meets the requirements of IEC 62923-1 for EUT function type P.
- Note 3 ITU-RM 1371-5 (02-2014) shall only be applicable in accordance with requirements of IMO Res MSC.74(69)

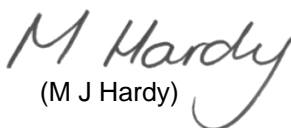
4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TUV SUD BABT or a person appointed by TUV SUD BABT to perform that role.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

The "Mark of Conformity" may only be affixed to the above type approved equipment and a manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body.

Signature:


(M J Hardy)

Date:

17/10/2024

On behalf of TUV SUD BABT UNLIMITED