



Danmark

Marine Equipment Directive EC Type Examination Module B Certificate

This is to certify that TÜV SÜD Danmark did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

| | |
|--|---|
| Implementing Regulation | (EU)2019/1397 |
| Certificate Holder and Manufacturer | Icom Inc. 1-1-32 Kamiminami Hirano-ku Osaka 547-0003 Japan |
| EC Representative | Icom (Europe) GmbH Auf der Krautweide 24 65812 Bad Soden am Taunus Germany |
| Product(s) | GM600 |
| Product Sector | Radiocommunication Equipment |
| Product Type | MED/5.1 VHF radio capable of transmitting and receiving DSC and radiotelephony |

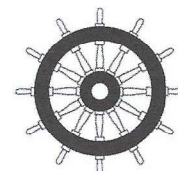
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 31 December 2019


(Tom Twynham)

Expiry Date: 09 November 2021

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification 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@TUV-SUD.co.uk



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Annex to Marine Equipment Directive Module B Type Examination Certificate



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EXM-20200109IE-B

1 Equipment Description

VHF Marine Transceiver

1.1 Models

1.1.1 System Components

| Model | Description |
|--------|--------------------------|
| GM600 | VHF Transceiver |
| HS-98 | Handset |
| PS-310 | 12-24 DC/DC Power Supply |

2 Assessed Requirements

2.1 Implementing Regulation (EU)2019/1397

2.2 Compliance Requirements for MED/5.1

| IMO Resolutions | International Testing Standards | |
|--|---|--|
| IMO Res A.385(X) IMO Res.A.524(13) IMO Res. A.803(19) IMO MSC/Circ.862 IMO MSC.1/Circ.1460 | ETSI EN 300 338-1 V1.4.1 (2017-02) | Electromagnetic compatibility and Radio spectrum Matters (ERM); Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 1: Common requirements |
| | ETSI EN 300 338-2 V1.4.1 (2017-02) | Part 2: Class A/B DSC |
| | ETSI EN 301 843-2 V2.1.1 (2016-03) | Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services; Part 5: Specific conditions for VHF radiotelephone transmitters and receivers |
| | ETSI EN 301 925 V1.5.1 (2017-10) | Electromagnetic compatibility and Radio spectrum Matters (ERM); Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands; Technical characteristics and methods of measurement |
| IMO Res.A.694(17) | EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008) | Maritime navigation and radiocommunication equipment and systems — General requirements |
| | EN 61162-1 (2016) | Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners |

3 Technical Documentation

3.1 Declaration of Conformity

GM600 DoC Modified 2019-10-31

3.2 User Guide

GM600 Instruction Manual, A-7239D-1EU-2 Dated 2016-09-01

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3.3 Test Reports

3.3.1 EN 60945 (2002) incl. IEC 60945 Corr.1 (2008)

| | | |
|----------------------------|--------|------------|
| 75931395 Report 01 Issue 1 | Issued | 2016-08-09 |
| 75931395 Report 07 Issue 2 | Issued | 2016-10-07 |
| 75931395 Report 02 Issue 1 | Issued | 2016-08-23 |
| 9624-R03 | Issued | 2016-01-22 |

3.3.2 ETSI EN 300 338-1 V1.3.1 (2010-02) & ETSI EN 300 338-2 V1.3.1 (2010-02)

| | | |
|--------------------------------|--------|------------|
| 75931395 Report 04 Issue 2 | Issued | 2016-11-02 |
| 75931395 Report 01 Issue 1 | Issued | 2018-08-09 |
| 9624-R03 | Issued | 2016-01-22 |
| GM600 Update Document Issue 02 | Dated | 2019-11-29 |

3.3.3 ETSI EN 301 843-2 V2.1.1 (2016-03)

| | | |
|----------------------------|--------|------------|
| 75931395 Report 02 Issue 1 | Issued | 2016-08-23 |
|----------------------------|--------|------------|

3.3.4 ETSI EN 301 925 V1.4.1 (2013-05)

| | | |
|----------------------------|--------|------------|
| 75931395 Report 03 Issue 2 | Issued | 2016-11-02 |
| 75931395 Report 06 Issue 1 | Issued | 2016-08-09 |

3.3.5 EN 61162-1 (2011)

| | | |
|--------------------------------|--------|------------|
| 75931395 Report 05 Issue 1 | Issued | 2016-08-05 |
| GM600 Update Document Issue 02 | Dated | 2019-11-29 |

3.4 Build Status

3.4.1 Hardware

| | | | |
|---------------------|-------------|-------|------------|
| Overall Build Level | Issue 1.006 | | |
| Schematic.pdf | | Dated | 2016-08-31 |
| Parts_List.pdf | | Dated | 2016-09-02 |

3.4.2 Software

Issue 1.200

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 and Certification Regulations.
- Note 2 (EU)2019/1397 gives a last placing on board date of 29/08/2021 for equipment approved against the test standards listed above. See Conditions of Validity.

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 TÜV SÜD Danmark or a person appointed by TÜV SÜD Danmark to perform that role.

Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

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 Annex B of the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature: 

Date: 2019-12-31

Print Name: Tom Twynam

On behalf of TÜV SÜD Danmark