



Danmark

Marine Equipment Directive EC Type Examination Module B Certificate

This is to certify that TÜV SÜD DANMARK ApS 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)2022/1157
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

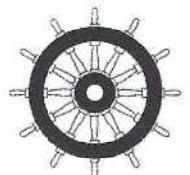
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 12 December 2022

T. J. Twynam
(Tom Twynam)

Expiry Date: 09 March 2027

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@tuvsud.com



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ZERTIFIKAT ♦ CERTIFICATE ♦ CERTIFICADO ♦ CERTIFIKAT ♦ 認證證書 ♦ CERTIFICATE ♦ ZERTIFIKAT

Annex to Marine Equipment Directive Module B Type Examination Certificate

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)2022/1157

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.694(17) IMO Res. A.803(19) IMO Res. MSC.302(87) IMO MSC/Circ.862 IMO MSC.1/Circ.1460 ITU-R M.489-2 (10/95) ITU-R M.493-15 (01/19) ITU-R M.541-10 (10/15)	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
	ETSI EN 300 338-1 V1.5.1 (2019-09)	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 V1.5.1 (2020-06)	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 2: Class A/B DSC
	ETSI EN 301 843-2 V2.2.1 (2017-11)	ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services; Harmonised Standard for electromagnetic compatibility; Part 2: Specific conditions for VHF radiotelephone transmitters and receivers
	ETSI EN 301 925 V1.6.1 (2020-12)	Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands; Technical characteristics and methods of measurement
	IEC 62923-1 (2018)	Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 1: Operational and performance requirements
	IEC 62923-2 (2018)	Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 2: Alert and cluster identifiers and other additional features

Annex to Marine Equipment Directive Module B Type Examination Certificate

3 Technical Documentation

3.1 Declaration of Conformity

GM600 Declaration of Conformity	Modified	2022-11-24
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3.2 User Guide

GM600 Instruction Manual, A-7239D-7EU	Modified	2022-09-26
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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 02 Issue 1	Issued	2016-08-23
75931395 Report 07 Issue 2	Issued	2016-10-07
GM600 Update Document Issue 04	Issued	2022-02-24

3.3.2 ETSI EN 300 338-1 V1.5.1 (2019-09) & ETSI EN 300 338-2 V1.5.1 (2020-06)

75931395 Report 04 Issue 2	Issued	2016-11-02
75931395 Report 01 Issue 1	Issued	2018-08-09
GM600 Update Document Issue 04	Issued	2022-02-24
75956135-02 Issue 02	Issued	2022-11-25

3.3.3 ETSI EN 301 843-2 V2.2.1 (2017-11)

75931395 Report 02 Issue 1	Issued	2016-08-23
GM600 Update Document Issue 04	Issued	2022-02-24
LIC 12-22-189	Issued	2022-11-02

3.3.4 ETSI EN 301 925 V1.6.1 (2020-12)

75931395 Report 06 Issue 1	Issued	2016-08-09
75931395 Report 03 Issue 2	Issued	2016-11-02
GM600 Update Document Issue 04	Issued	2022-02-24
75956135-01 Issue 01	Issued	2022-11-21

3.3.5 EN 61162-1 (2016)

75931395 Report 05 Issue 1	Issued	2016-08-05
GM600 Update Document Issue 04	Issued	2022-02-24

3.3.6 IEC 62923-1 (2018) & IEC 62923-2 (2018)

75952602 Report 01 Issue 3	Issued	2022-03-08
75952602 Report 02 Issue 1	Issued	2022-01-12

3.4 Build Status

3.4.1 Hardware

Overall Build Level	Issue 2.000		
Schematic.pdf		Dated	2022-09-06
Parts_List.pdf		Dated	2022-11-02

3.4.2 Software

Issue 2.000

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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.

4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

During the period of validity of this certificate the applicable regulations (international conventions and relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by TÜV SÜD DANMARK ApS.

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

Signature: 
(Thomas J. Twynam)

Date: 2022-12-12

On behalf of TÜV SÜD DANMARK ApS