



Bundesrepublik Deutschland

Federal Republic of Germany

Bundesamt für Seeschifffahrt und Hydrographie

Federal Maritime and Hydrographic Agency



BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

Bundesamt für Seeschifffahrt und Hydrographie, specified as a "notified body" under the terms of „Schiffssicherheitsgesetz“ of 9. September 1998 (BGBl. I, p. 2860) modified last 8. April 2008 (BGBl. I, p. 706), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive (MED) 96/98/EC and the last modification by Directive 2008/67/EC.

Manufacturer **Navico, Inc.**
 Address **23868 Hawthorne Blvd., Suite 201, TORRANCE CA. 90505 USA**

Applicant **Navico, Inc.**
 Address **23868 Hawthorne Blvd., Suite 201, TORRANCE CA. 90505 USA**

Annex A.1 Item (No & item designation) **4.32 Universal automatic identification system equipment (AIS)**

Product Name **MX535**

Trade Name (s) **---**

Specified Standard(s)

IMO Resolution MSC.74(69) Annex 3	IEC 61993-2 Ed.1.0, 2001
ITU-R M.1371-1 (Class A)	IEC 61162-1 Ed.2.0, 2000
IALA Technical Clarification of Recommendation	IEC 61162-2 Ed.1.0, 1998
ITU-R M.1371-1 (Ed.1.3)	IEC 60945 Ed.3.0, 1996
ITU-R M.825-3	IEC 61108-1 Ed.1.0, 1996
ITU-R M.1084-3	

Applied version of Annex A.1 (MED): Directive 2008/67/EC
This certificate remains valid unless cancelled, expired or revoked.

Date of Re-issue: **2009-05-08** Issued by: **Bundesamt für Seeschifffahrt und Hydrographie
 Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany
 Notified body 0735**

Expiry date: **2009-07-20**

Certificate No.: **BSH/4612/4321235/09**

USCG-Module-B No.: **165.155/EC0735** Unique Identifier: **4321235**

This certificate consists of 2 pages.



by order

Karl-Heinz Warnstedt



Components necessary for operation:

Components necessary for operation	Type	Part No.	Remarks
AIS Transponder Unit	MX 535	3508 102 70800	Software release tested: NAU-S111.2.0x
Keyboard and display unit (MKD)	MX 510/512	512-000-0000	Software release: 3.0x
GPS Antenna	Marine II	NAU-X6011	Or equivalent Globe Antenna 3508 100 94640
VHF antenna	AC Marine CX4	9525 200 80230	or equivalent

The internal GPS sensor of the MX535 is used as a backup sensor for position reporting

The MX535 is technical and functionally identical to the ACR Nauticast X-Pack DS AIS except that the internal user interface / MKD is replaced by the MX510/512 unit and is identical to the Nauticast X-Pack CS

Approval Documentation:

MX535 Installation Manual	P/N 3508-102-70860
MX510/512 Operators & Installation Manual	P/N 510 100 2002 with Addendum 1.
MX510/512 Quick Reference Guide	P/N 510 100 2003

Places of production:

MX535 AIS Transponder Unit :	ACR Electronics Inc. 5757 Ravenswood Road, FORT LAUDERDALE, FL 33312-6645, USA
MX510/512 User interface unit :	GPC Ltd. 10 Sonter Road, CHRISTCHURCH NEW ZEALAND

Limitations on the acceptance or use of the product:

Additional external display systems (like e.g. ECDIS, RADAR) maybe connected, but can serve as a listening device only.

Notes:

The manufacturer shall inform Bundesamt für Seeschifffahrt und Hydrographie, as the notified body, of any modifications to the type-tested product(s) that may affect compliance with the requirements or conditions laid down for use of the product(s).

In case the specified regulations or standards are amended during the validity of this certificate, the product(s) must be re-certified before being placed on board vessels to which such amended regulations or standards apply.

The Mark of Conformity (wheelmark) may only be affixed to the type approved equipment, and a Manufacturer's Declaration of Conformity may only be issued, if the product quality system fully complies with the Marine Equipment Directive and is certified by a notified body against ANNEX B module D, E, or F of the Directive.

U.S. Coast Guard Approval

This product has been assigned a U.S. Coast Guard Module B number (165.xxx/EC0735/Unique Identifier) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Maritime Equipment" signed February 27th, 2004.

The AIS radio transmitter is required to be authorized by U.S. Federal Communications Commission (FCC)

Notice on legal remedies available:

Objection to this document may be filed within one month after notification. The objection must be filed in writing to, or put on record at, Federal Maritime and Hydrographic Agency, Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany