



Bundesrepublik Deutschland

Federal Republic of Germany

BSH-Cert

Benannte Stelle - Navigations und Funkausrüstung
beim Bundesamt für Seeschifffahrt und Hydrographie

Notified Body - Navigation and Radiocommunication Equipment
at the Federal Maritime and Hydrographic Agency



NOTIFIED
BODY
0735

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

BSH-Cert, specified as a "notified body" under the terms of „Schiffssicherheitsgesetz“ of 09 September 1998 (BGBl. I, p. 2860) modified last 18 May 2011 (BGBl. I, p. 935), 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 2011/75/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) **4.14 GPS equipment**
4.50 DGPS equipment

Product Name **MX521A GPS/DGPS Sensor**

Trade Name(s) **See Annex**

Specified Standard(s)

IMO Resolution MSC.112(73)	IEC 61108-1 Ed.2.0, 2003
IMO Resolution MSC.114(73)	IEC 61108-4 Ed.1.0, 2004
IMO Resolution A.694(17)	IEC 60945 Ed.4.0, 2002 incl. Corr. 1, 2008
IMO Resolution MSC.191(79)	IEC 61162-1 Ed.4.0, 2010
	IEC 62288 Ed.1.0, 2008

Based on the Directive 2009/26/EC, additional applied version: Directive 2010/68/EC, 2011/75/EC
This certificate remains valid unless cancelled, expired or revoked.

Date of Re-issue: **07 December 2011**

Issued by: **BSH-Cert**
Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany
Notified body 0735

Expiry date: **06 December 2016**

Certificate No.: **BSH/4612/4142143/11**

USCG-Module-B No.: **165.130/EC0735** Unique Identifier: **4142143**

This certificate consists of 4 pages.



Karl-Heinz Warnstedt
Karl-Heinz Warnstedt



Components necessary for operation:

Component	Type designation	Part No.
GPS Receiver DGPS Receiver	MX521AG MX521A	P/N 727050 <i>or</i> 000-00042-002 P/N 727051 <i>or</i> 000-00042-003
User interface unit	MX500 <i>or</i> MX420/2 <i>or</i> MX420/8	see Annex of this certificate
Application software	Version 6.8x	

Approval Documentation:

- Assessment Report No.: BSH/4612/4142143/11/S3301 (IEC 61162-1 Ed.4.0)
- Test Report No.: BSH/4612/4321390/10 (IEC 62288)
- MX521A DGPS Sensor Installation Service Manual: P/N 727052
- MX420 Navigation System Operators Manual: P/N 3508-102-70040
- MX500 Operation and Installation Manual: P/N 500-100-2003
- MX510/512 Operation and Installation Manual: P/N 510-100-2002

Places of production:

Limitations on the acceptance or use of the product:

Notes:

The manufacturer shall inform BSH-Cert, 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 [if other than EC 0735: /Number of the notified body which certifies the quality assurance system]) 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, and additional information given by U.S. Coast Guard by E-Mail 2010.

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

ANNEX TO
EC TYPE EXAMINATION (MODULE B) CERTIFICATE
No.: BSH/4612/4142143/11

The equipment is also distributed by the following vendors under the noted trade names:

Vendor	Type designation	Part No.
Navico Inc. 23868 Hawthorne Blvd., Suite 201, Torrance, CA 90505 USA	MX500 GPS	500-000-0000 / 727050
	MX500 DGPS	500-000-0000 / 727051
	MX510 GPS	510-000-0000 / 727050
	MX510 DGPS	510-000-0000 / 727051
	MX512 GPS	512-000-0000 / 727050
	MX512 DGPS	512-000-0000 / 727051
	MX420 GPS	3508-102-70200 / 727050 <i>or</i> 3508-102-70210 / 727050
	MX420 DGPS	3508-102-70200 / 727051 <i>or</i> 3508-102-70210 / 727051
SAM Electronics GmbH Behringstrasse 120 22763 Hamburg Germany	MX500 GPS	500-000-0000 / 000-00042-002
	MX500 DGPS	500-000-0000 / 000-00042-003
<i>or</i>		
Northrop Grumman Sperry Marine UK 118 Burlington Road, New Malden, Surrey KT3 4NR United Kingdom	MX510 GPS	510-000-0000 / 000-00042-002
	MX510 DGPS	510-000-0000 / 000-00042-003
	MX512 GPS	512-000-0000 / 000-00042-002
	MX512 DGPS	512-000-0000 / 000-00042-003
<i>or</i>		
Kelvin Hughes Ltd. New North Road, Hainault, Ilford, Essex IG6 2UR United Kingdom	MX420 GPS	3508-102-70200 / 000-00042-002 <i>or</i> 3508-102-70210 / 000-00042-002
<i>or</i>		
Raytheon Anschutz GmbH Zeyestrasse 16-24 24106 Kiel Germany	MX420 DGPS	3508-102-70200 / 000-00042-003 <i>or</i> 3508-102-70210 / 000-00042-003

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