



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 2009/26/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**

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
	IEC 61108-4 Ed.1.0, 2004
	IEC 60945 Ed.4.0, 2002
	IEC 61162-1 Ed.3.0, 2007

Based on the version of MED in force, applied version: **Directive 2008/67/EC**
This certificate remains valid unless cancelled, expired or revoked.

Date of Re-issue: 2009-07-21

Issued by: **Bundesamt für Seeschifffahrt und Hydrographie
Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany
Notified body 0735**

Expiry date: 2012-05-15

Certificate No.: **BSH/4612/4141320/09**

USCG-Module-B No.: **165.130/EC0735** Unique Identifier: **4141320**

This certificate consists of 4 pages.



Kai-Jens Schulz-Reifer
Kai-Jens Schulz-Reifer



Components necessary for operation:

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

Approval Documentation:

- 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

Limitations on the acceptance or use of the product:

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 [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.

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/4612/4141320/09

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 <i>or</i> Northrop Grumman Sperry Marine UK 118 Burlington Road, New Malden, Surrey KT3 4NR United Kingdom <i>or</i> Kelvin Hughes Ltd. New North Road, Hainault, Ilford, Essex IG6 2UR United Kingdom <i>or</i> Raytheon Anschütz GmbH Zeyestrasse 16-24 24106 Kiel Germany	MX500 GPS	500-000-0000 / 000-00042-002
	MX500 DGPS	500-000-0000 / 000-00042-003
	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
	MX420 GPS	3508-102-70200 / 000-00042-002 <i>or</i> 3508-102-70210 / 000-00042-002
	MX420 DGPS	3508-102-70200 / 000-00042-003 <i>or</i> 3508-102-70210 / 000-00042-003

This page is intentionally left blank