

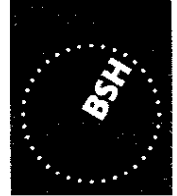


Bundesrepublik Deutschland

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 31. October 2006 (BGBl. I, p. 2407), 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 last modified by Directive 2002/84/EC.

Applicant **NAVICO, Inc.**
Address **23868 Hawthorne Blvd, Suite 201 Torrance, CA, USA 90505**

Manufacturer **NAVICO, Inc.**
Address **23868 Hawthorne Blvd, Suite 201 Torrance, CA, USA 90505**

Annex A.1 Item **4.14 GPS Equipment**
(No & item designation)

Product Name **MX525A GPS / DGPS Receiver**

Trade Name(s) **See annex of this certificate**

Specified Standard(s)

IMO Resolution MSC.112 (73)	IEC 61108-1 Ed. 2.0, 2003
	IEC 61162-1 Ed. 2.0, 2000
	IEC 60945 Ed. 4.0, 2002

This certificate remains valid unless cancelled, expired or revoked.

Date of Re-issue: **2007-12-21**

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

Expiry date: **2012-03-29**

Certificate No.: **BSH/4612/4140607/07**

USCG-Module-B No.: **165.130/EC0735** Unique Identifier: **4140607**

This certificate consists of 4 pages.



by order

Kallauch



Components necessary for operation:

Component	Type name	Part No.
DGPS Receiver	MX525A	P/N 727061
GPS Receiver	MX525AG	P/N 727060
User interface unit	Either: MX500 or MX510 or MX512 or MX420/2 or MX420/8	P/N 5000000000 or P/N 5100000000, 5120000000 and also Annex
Combined DGPS/GPS Antenna	Either: MGL-3/4 or MX B5	P/N 721751/721757 or P/N 721755
Application Software	Version 6.8x	

Approval Documentation:

- MX525A DGPS Receiver Installation Manual: P/N 727062
- MX420 Navigation System Operators Manual: P/N 350810270040
- 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/4612/4140607/07

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

Vendor	Type designation	Part No.	
MX Marine or SIMRAD NAVICO, Inc. 23868Hawthorne Blvd.Suite 201 Torrance CA 90505	- MX 500 GPS	500 000 0000/727060	
	- MX 500 DGPS	500 000 0000/727061	
MX Marine or SIMRAD NAVICO, Inc. 23868Hawthorne Blvd.Suite 201 Torrance CA 90505	- MX 510 GPS	510 000 0000/727060	
	- MX 510 DGPS	510 000 0000/727061	
MX Marine or SIMRAD NAVICO, Inc. 23868Hawthorne Blvd.Suite 201 Torrance CA 90505	- MX 512 GPS	512 000 0000/727060	
	- MX 512 DGPS	512 000 0000/727061	
MX Marine or SIMRAD NAVICO, Inc. 23868Hawthorne Blvd.Suite 201 Torrance CA 90505	- MX420 GPS	350810270200 / 727028 or 350810270210 / 727028	
	- MX420 DGPS	350810270200/ 952520081010 or 350810270210/ 952520081010	
	- AP MK12 GPS	350810270220 / 727028	
	- AP MK12 DGPS	350810270220/ 952520081010	
SAM Electronics GmbH Behringstrasse 120 D-22763 Hamburg Germany	- DEBEG 4422 GPS	} Containing user interface unit MX420/2	350810270250 / 727028
	- DEBEG 4422 DGPS		350810270250 / 952520081010
	- DEBEG 4428 GPS	} Containing user interface unit MX420/8	350810270270 / 727028
	- DEBEG 4428 DGPS		350810270270 / 952520081010

Vendor	Type designation	Part No.
Northrop Grumman Sperry Marine 118 Burlington Road, New Malden UK-KT3 4NR, Surrey United Kingdom	- LMX420 GPS	350810270280 / 727028 or 350810270290 / 727028
	- LMX420 DGPS	350810270280 / 952520081010 or 350810270290 / 952520081010
KELVIN HUGHES LTD New North Road, Hainault, Ilford UK-IG62UR, Essex United Kingdom	- MX420 GPS	350810270300 / 727028 or 350810270310 / 727028
	- MX420 DGPS	350810270300 / 952520081010 or 350810270310 / 952520081010
Raytheon Marine GmbH Zeyestrasse 16-24 D-24106 Kiel Germany	- MX420 GPS	350810270330 / 727028 or 350810270340 / 727028
	- MX420 DGPS	350810270330 / 952520081010 or 350810270340 / 952520081010