



# 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



## 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 08 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

SAM Electronics GmbH

Address

Behringstr. 120, 22763 Hamburg, GERMANY

Applicant

SAM Electronics GmbH

Address

Behringstr. 120, 22763 Hamburg, GERMANY

Annex A.1 Item  
(No & item designation)

4.32 Universal automatic identification system equipment (AIS)

Product Name

AIS 3410

### Specified Standard(s)

SOLAS Reg. V/19	IEC 61993-2 Ed.1.0, 2001
IMO Resolution A.694(17)	IEC 60945 Ed.4.0, 2002
IMO Resolution MSC.74(69), Annex 3	IEC 61108-1 Ed.2.0, 2003
IMO Resolution MSC.36(63)-(HSC-Code 1994) 13	IEC 61162-1 Ed.3.0, 2007
IMO Resolution MSC.97(73)-(HSC-Code 2000) 13	IEC 61162-2 Ed.1.0, 1998
IMO Resolution MSC.191(79)	IEC 62288 Ed.1.0, 2008
ITU-R M.1371-3*, 2007	
ITU-R M.825-3, 1998	
ITU-R M.1084-3, 1998	

\* Sofern zutreffend für AIS Class A / as far as applicable for AIS Class A

Based on the Directive 2008/67/EC, additional applied version: Directive 2009/26/EC

This certificate remains valid unless cancelled, expired or revoked.

Date of issue: 30 March 2010

Issued by: BSH-Cert

Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany

Notified body 0735

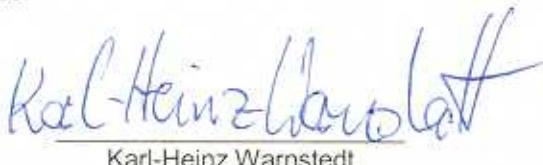
Expiry date: 29 March 2015

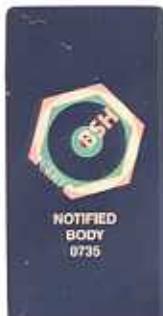
Certificate No.: BSH/4612/4320732/10

USCG-Module B No.: 165.155/EC0735 Unique Identifier: 4320732

This certificate consists of 4 pages.



  
Karl-Heinz Warnstedt



**Components necessary for operation:**

component	part-no.	remark
AIS SAM 3410 Electronics Unit	GE 4034	software release tested: 1.0.x
Display and Control Unit	See list of display units.	The AIS transponder unit AIS 3410 has to be connected to one of the below display units
VHF Antenna	CXL 2-1 or COMROD AV-7 VHF or CX-4	or equivalent
GPS Antenna	Micropulse 1330 Fw/D or Procom GPS 4 or Hemisphere MGA-2	

**Display units (MKD):**

Unit Identification	Approved Software Version	Certificate of Reference
RADARPILOT 1100	5.1.x	BSH/4612/4340628/08 Supplement dated 2009-10-02
CHARTRADAR 1100	Radar 5.1.x ECDIS 6.1x	BSH/4612/4340628/08 Supplement dated 2009-10-02
MULTIPILOT 1100	Radar 5.1.x ECDIS 6.1x	BSH/4612/4340630/08 Supplement dated 2009-09-07
CHARTPILOT 1100	ECDIS 6.1x	BSH/4612/4301388/09

**Approval Documentation:**

Technical Manual	Automatic Identification System AIS 3410, Electronics unit	ED 3047G842 Rev.: 01 (2009-03)
Operating Instructions	Multiplilot 1100, Conningpilot 1100, Software Version 5.1.x	ED3051G522 Revision: 00 (2008-07)

**Places of production:**

Ihlemann AG  
Heesfeld 2a-6, 38112 Braunschweig, GERMANY

**Limitations on the acceptance or use of the product:**

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**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

**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 27<sup>th</sup>, 2004.

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

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