



Marine &amp; Offshore

Certificate number: 36533/D0 MED

File number: NAV12/29805/3

Item number: MED/4.30

This certificate is not valid when presented without the full attached schedule  
composed of 7 sections  
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

## EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2021/1158 of 22 June 2021

This certificate is issued to:

**iXblue S.A.S**

SAINT GERMAIN EN LAYE - FRANCE

for the type of product

### ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEM (ECDIS) WITH BACKUP, AND RASTER CHART DISPLAY SYSTEM (RCDS)

Gecdis-8 / SENIN

**Requirements:**

SOLAS 74 Convention as amended, Regulations V/18, V/19, V/27, X/3

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 13

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 13

IMO Res. A.694(17)

IMO Res. MSC.191(79), MSC.232(82), MSC.302(87)

IMO MSC.1/Circ.1503.Rev.1

IEC 60945 (2002) + /Corr. 1 (2008),

IEC 61162 series: IEC 61162-1 (2016) - IEC 61162-2 ed1.0 (1998-09) - IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) - IEC 61162-450 (2018),

IEC 61174 Ed. 4.0 (2015),

IEC 62288 Ed. 2.0 (2014-07),

IEC 62923-1 (2018),

IEC 62923-2 (2018).


This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

**This certificate will expire on: 17 Sep 2026****For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV SAINT-NAZAIRE, on 17 Sep 2021,

Francois LOPINOT



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

ECDIS (Electronic Chart Display and Information System) & RCDS (Raster Chart Display System) with Radar Overlay Type: Gecdis-8 / SENIN

#### 1.1 Hardware:

#	Component	Supplier	Type / Version
1	<u>Main processing unit</u>	- Hatteland Display AS  - ISIC A/S	HT 22IHx HT CO2Hi HT CO2Hx  PCM4 – Q87 PCM4 – H77
2	<u>Main Monitor</u>	- Hatteland Display AS  - ISIC A/S	JH 23T14 MMD-MA4 Serie 1 HD 19T21 MMD-MA4 Series X G1 HD 24T21 MMD-MA4 Series X G1 HD 26T21 MMD-MA4 Series X G1 HD 19T22 MMD-MA4 Series X G2 HD 24T22 MMD-MA4 Series X G2 HD 26T22 MMD-MA4 Series X G2 HD 27T22 MMD-MA4 Series X G2  DuraMON 19 LED DuraMON 26 WS LED
3	<u>Panel PC</u>	- Hatteland Display AS  - Data Modul	HD 19T21 MEC Series X G1 HD 24T21 MEC Series X G1 HD 26T21 MEC Series X G1 HD 19T22 MEC Series X G2 HD 24T22 MEC Series X G2 HD 26T22 MEC Series X G2 HD 27T22 MEC Series X G2  MDC-A22-1 MDC-A26-1
4	<u>Control Panels</u>	- iXblue SAS	Keyboard-Mouse
5	<u>Network Switch (Optional equipment)</u>	- Moxa  - Hatteland	EDS-G512E Series EDS-G512E-4GSFP EDS-G512E-4GSFP-T EDS-G512E-8PoE-4GSFP EDS-G512E-8PoE-4GSFP-T  IKS-6728A Series IKS-6728A-4GTXSFP-24-24-T IKS-6728A-4GTXSFP-24-T IKS-6728A-4GTXSFP-48-48-T IKS-6728A-4GTXSFP-48-T IKS-6728A-4GTXSFP-HV-HV-T IKS-6728A-4GTXSFP-HV-T IKS-6728A-8PoE-4GTXSFP-48-48-T IKS-6728A-8PoE-4GTXSFP-48-T IKS-6728A-8PoE-4GTXSFP-HV-HV-T IKS-6728A-8PoE-4GTXSFP-HV-T  HN G9084-LA HN GP9084-LA
6	<u>Interface units (Optional equipment)</u>	- iXblue	Netans Series Netans N1* Netans N3* Netans N5* Netans N7*

\*: Netans N1, Netans N3, Netans N5 and Netans N7 do not fulfill SOLAS shipborne navigational equipment carriage requirements and do not comply with Marine Equipment Directive (MED) 2014/90/EU requirements for Transmitting Heading Device THD (Gyroscopic method) (MED/4.46) but Netans product series can be used as Data Distribution Unit (DDU) in the iXblue ECDIS navigation system.

**1.2 Software:**

#	Component	Supplier	Type / Version
1	Operating System	- Microsoft	Windows 7 / Windows 10
2	Software + Dongle	- iXblue SAS	Gecdis-8 platform 8.Y.Z ; Y.Z >=22.0 SENIN 8.Y.Z ; Y >= 9 , Z any number

**1.3 Options:**

Multi displays function available.

**2. DOCUMENTS AND DRAWINGS:**

- 2.1 - Document Ref. ISD M 772 Ed.A - Dossier de modification Gecdis-8 62288 Ed.2 - issued by iXBlue S.A.S dated 30/06/15  
 2.2 - GECDIS-8 / SENIN – Passage au 11e amendement : DIRECTIVE (UE) 2015/559 de la commission du 9 avril 2015 modifiant la directive 96/98/CE du conseil relative aux équipements marins, Document Ref. ISDM1041 Edition B dated 15/04/2016  
 2.3 - ISDM1284\_A\_Dossier de certification ECDIS 2017 GECDIS 8  
 2.4 - GECDIS-C User's Manual (ref : ISDM038)  
 2.5 - 36533/B1 MED Version submitted documents are listed in iXblue file Ref: NIX-D01286A Edition B dated: 13/12/2018.  
 2.6 - Risk analysis Ref: RIN00789 Edition AB dated: 06/12/2018.  
 2.7 - Qualification Plan Gecdis8 Post-Aug 2019 - 00013178 - Edition B issued by iXblue and dated 23/08/2019.  
 2.8 - ECDIS Certification - Justifications of new and modified equipment - 00013535 - Edition B issued by iXblue and dated 28/08/2019.  
 2.9 - **36533/D0 MED** version submitted documents and drawings are listed in iXblue file Ref: 00019437 Edition: B dated: 28/07/2021.  
 2.10 - Gecdis User Manual Ref.: ISDM337 Edition:.L1 dated: 08/2021.

**3. TEST REPORTS:**

- 3.1 - IEC 62288 Ed 2.0 - Test report N°: ISDM777 Edition A dated 29/06/2015, Rapport de tests, Plateforme GECDIS 8 version 8.8.0, witnessed by BV surveyor on 03/07/2015  
 3.2 - ISD15332A Complete test report for ECDIS certification of Plateform Gecdis 8.  
 3.3 - ISD15333A Certification file- 2017-Gecdis 8, witnessed by BV surveyor on 26/06/2017.  
 3.4 - iXblue Test report Ref: 00000804 witnessed by BV surveyor on 27/11/2018.  
 3.5 - Qualification Report Gecdis8 Post-Aug 2019 - NIX-D02060 - Edition B issued by iXblue and dated 02/08/2019.  
 3.6 - **36533/D0 MED** version submitted Test reports are listed in iXblue file Ref: 00019437 Edition: B dated: 28/07/2021.

**4. APPLICATION / LIMITATION:**

- 4.1 - As per requirements of Regulations stated on front page of this certificate.  
 4.2 - IEC 61162-3 is not applicable.  
 4.3 - Optional equipment Netans (Netans N1, Netans N3, Netans N5 and Netans N7) does not fulfill SOLAS shipborne navigational equipment carriage requirements and does not comply with Marine Equipment Directive (MED) 2014/90/EU requirements for Transmitting Heading Device THD (Gyroscopic method) (MED/4.46) but Netans product series can be used as Data Distribution Unit (DDU) in the iXblue ECDIS navigation system.  
 4.4 - Only Hardware and Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.  
 4.5 - The approved equipment (listed above):  
 - embeds only BAM function type P ;  
 - if installed on a BAM compliant bridge, the equipment should be connected to a CAM/CAM-HMI (approved by the Administration) using IEC 61162-1, IEC 61162-2 or IEC 61162-450 digital interfaces for BAM harmonized presentation of its alerts within Navigation Cluster ;  
 - on a BAM compliant bridge, the equipment shall not use non-BAM compliant alert communications, unless allowed by the Administration.  
 4.6 - The following component(s) shall comply with the requirements of MED2014/90/EU, as amended, and be wheelmarked:  
**Gecdis-8 / SENIN**

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - For information concerning the production phase modules, **iXblue S.A.S** has declared the following manufacturing site(s):

**iXblue S.A.S**  
**34 RUE DE LA CROIX DE FER**  
**78100 SAINT GERMAIN EN LAYE**  
**FRANCE**

**6. MARKING OF PRODUCT:**

Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

**7. OTHERS:**

7.1 - It is **iXblue S.A.S, Saint-Germain-en-Laye - FRANCE**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes EC Type Examination Certificate n° 36533/C0 MED issued on 04/09/2019 by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***