

# EU-Type Examination Certificate

## 2051-RED-191803

In compliance with Directive (EU) No 2014/53 of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment (RED), this certificate applies to the product(s)

**X Band radar system for surface maritime navigation**

**Type: SUPERNET**

**Models: 10460RD/P and 10126/P**

Placed on the market under the name or trade mark of

**GEM elettronica S.r.l.**

**Via Amerigo Vespucci, 9**

**63074 - S. Benedetto del Tronto (AP), Italy**

This certificate attests that all provisions concerning the assessment and verification of performance described in the standard(s)

- Art 3.1a:** EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013  
EN 62311: 2008
- Art 3.1b:** ETSI EN 301 489-1 V2.2.0:2017  
EN 60945:2002 (Ed.4), §9 and §10
- Art 3.2:** ETSI EN 302 248 v2.1.1:2016

as per Annex III (Module B) for the performance set out in this certificate, are applied.

Certificate issued April 30, 2019

*Certificate was first issued April 30, 2019*

Certificate Revision: 0

**Nemko S.p.A.**

*Authorized signatory:* Marco De Angelis

# NB 2051


This certificate has been granted by Nemko Spa a Socio Unico, Via del Carroccio 4, 20853 Biassono (MB), Italy

This certificate remains valid, 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 Nemko. Should the specified regulations or standards be amended, the products are to be re-approved prior to being placed on the market. Nemko Spa is designated by the Italian Notifying Authority "Ministry of Economic Development".

Any person not a party to the contract pursuant to which this document is delivered may not assert a claim against Nemko 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 in the establishment or issuance of this document, and in connection with any activities for which it may provide.

## ANNEX 1 – PRODUCT SPECIFICATIONS

### PRODUCT DESCRIPTION

Equipment identification:	X Band radar system for surface maritime navigation
Model/type:	Type SUPERNET Mod. 10460RD/P (with Radome antenna) Mod. 10126/P (with open antenna AU11-06N)
Variants:	- with Radome antenna: Radar/plotter: 7240RD/P, 7460RD/P, 10240RD/P, 12240RD/P, 12460RD/P Radarbox: 240RD/P/RB, 460RD/P/RB - with open antenna: Radar/plotter: 744/P, 746/P, 1044/P, 1046/P, 10124/P, 10126/P, 1244/P, 1246/P, 12124/P, 12126/P Radarbox: 44/P/RB, 46/P/RB, 124/P/RB, 126/P/RB Plotter: 700C, 1000C, DCP01/BOX
Brand/trade name:	
Supply voltage:	12 ÷ 24 Vdc (with Radome antenna) 24 Vdc (with open antenna)
Rated power/current:	6 A (@ 12 Vdc) 4 A (@ 24 Vdc)

### TECHNICAL CHARACTERISTICS

Type of radio interface:	Band X radar
Intended purpose:	Anti-collision maritime radar system (non-SOLAS)
Class of equipment:	Class II of Commission Decision 2000/299/EC
Frequency range:	9410 ± 50 MHz
Transmit power:	4 kW (with Radome antenna) 10 kW (with open antenna)
Antenna type:	Dedicated
Maximum antenna gain:	21dBi (with Radome antenna) 29 dBi (with open antenna)

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Firmware: RAD13000A v2.03 (CPU)  
PRG421870 (for SU82-12)  
PRG421852 (for SU70-14E)

#### MANUFACTURER

Name: GEM elettronica S.r.l.  
Address: Via Amerigo Vespucci, 9 - 63074 - S. Benedetto del Tronto (AP), Italy

#### ADDITIONAL INFORMATION

None.

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## ANNEX 2 - SCHEDULE OF APPROVAL

### SCOPE OF EXAMINATION

- |  |          |
|--|----------|
| <input checked="" type="checkbox"/> Protection of Health and Safety, according to Article 3(1)(a).     | COMPLIES |
| <input checked="" type="checkbox"/> Electromagnetic Compatibility (EMC), according to Article 3(1)(b). | COMPLIES |
| <input checked="" type="checkbox"/> Radio Spectrum Use, according to Article 3(2).                     | COMPLIES |
| <input type="checkbox"/> Special Radio Features, according to Article 3(3)(a)-(i).                     | N/A      |

### APPLICATIONS/LIMITATIONS

Nil.

### MARKING OF PRODUCT

The Manufacturer and Type Designation shall be applied to the product in a visible location.  
The equipment shall carry the CE marking of the European Union.

### TYPE EXAMINATION DOCUMENTATION

#### Test report(s)

- Safety test report by Nemko SpA (id: 63282-1TRFSAF, dated: 2006-05-18)
- Safety test report by Nemko SpA (id: 63282-2TRFSAF, dated: 2006-05-18)
- Health test report by Nemko SpA (id: 351886-1TRFEMF, dated: 2018-10-11)
- Health test report by Nemko SpA (id: 351886-2TRFEMF, dated: 2018-10-11)
- EMC test report by Nemko SpA (id: 63282-1r1TRFEMC, dated: 2006-04-12)
- EMC test report by Nemko SpA (id: 63282-2r1TRFEMC, dated: 2006-04-12)
- EMC test report by Nemko SpA (id: 351886-1TRFEMC, dated: 2018-09-04)
- EMC test report by Nemko SpA (id: 351886-2TRFEMC, dated: 2018-09-04)
- Radio test report by Nemko SpA (id: 351886-1TRFWL, dated: 2018-10-10)
- Radio test report by Nemko SpA (id: 351886-2TRFWL, dated: 2018-10-10)

#### Additional documentation

- RED technical file by GEM elettronica S.r.l. (id: FTCPF121310. Rev.1, dated 2019-04-23)

### ADDITIONAL INFORMATION

None.

<< End of certificate >>

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### Nemko S.p.A.

Authorized signatory: Marco De Angelis

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#### Nemko Italy

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