



Organismo Notificado N° 0370

# CERTIFICADO DE EXAMEN UE DE TIPO

## EU-TYPE EXAMINATION CERTIFICATE



No. **0370-RED-4287**

<b>EMITIDO POR / ISSUED BY</b>	LGAI TECHNOLOGICAL CENTER - No. 0370 (APPLUS)	
<b>SOLICITANTE / APPLICANT</b>	<b>Shanwei Express Communication &amp; Navigation Company Ltd.</b> Zhongyang Building, Pubian Industrial Zone, Hongcao Town, Shanwei City, Guangdong Province, 516600, P.R.China	
<b>FABRICANTE (Nombre, Dirección) MANUFACTURER (Name, Address)</b>	<b>Shanwei Express Communication &amp; Navigation Company Ltd.</b> Zhongyang Building, Pubian Industrial Zone, Hongcao Town, Shanwei City, Guangdong Province, 516600, P.R.China	
<b>COMERCIALIZADO POR (marca) COMMERCIALISED BY (Brand)</b>	<b>ONWA</b>	
<b>PRODUCTO PRODUCT</b>	<b>AIS MOB</b>	
<b>TIPOS TYPES</b>	KS-33R	
<b>Versión HW / FMW HW / FMW version</b>	SW: V2.0 HW: V3.1	
<b>DIRECTIVA APLICABLE APPLICABLE DIRECTIVE</b>	<b>DIRECTIVA 2014/53/UE DEL PARLAMENTO EUROPEO Y DEL CONSEJO, DE 16 DE ABRIL DE 2014, RELATIVA A LA ARMONIZACIÓN DE LAS LEGISLACIONES DE LOS ESTADOS MIEMBROS SOBRE LA COMERCIALIZACIÓN DE EQUIPOS RADIOELÉCTRICOS</b> <i>DIRECTIVE 2014/53/EU 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</i>	
<b>DESCRIPCIÓN DESCRIPTION</b>	<b>The device is a AIS MOB with AIS and GPS RX</b>	
<b>CUMPLE CON LOS REQUISITOS ESENCIALES MEET ESSENTIAL REQUIREMENTS</b>	Art.3.1a Salud y Seguridad / <input checked="" type="checkbox"/> <i>Art.3.1a Health &amp; Safety</i>	Art. 3.2 Uso eficiente del espectro radioeléctrico / <input checked="" type="checkbox"/> <i>Art.3.2 Efficient use of Radio spectrum</i>
	Art.3.1b EMC / <input checked="" type="checkbox"/> <i>Art.3.1b EMC</i>	Art 3.3 Características especiales / <input type="checkbox"/> <i>Art.3.3 Special characteristics</i>

Este documento carece de validez sin su anexo, cuyo número coincide con el del presente certificado. // *This document is not valid without its technical annex, whose number coincides with the number of the certificate.*

La evaluación de la documentación técnica entregada se encuentran recogidos en el expediente técnico número: 21/36400023  
*The evaluation of the technical documentation delivered is included in the technical file number: 21/36400023*

Restricciones (si aplican) / *Restrictions (if apply):*

Bellaterra, 22 de enero de 2021 // *22th January 2021*



José Luis Medina  
 Director  
 Electrical & Electronics - Spain

Este Certificado es válido mientras no se produzcan cambios en el estado de la técnica que indiquen que el equipo radioeléctrico aprobado ya no puede cumplir los requisitos esenciales de la Directiva 2014/53/UE y no haya notificaciones en el tipo aprobado que puedan afectar a la conformidad con los requisitos esenciales de la Directiva 2014/53/UE  
 This Certificate is valid as long as there are no changes in the prior art indicating that the approved radio equipment can no longer meet the essential requirements of Directive 2014/53/EU and there are no notifications of the approved type that may affect the Accordance with the essential requirements of Directive 2014/53/EU

## **ANEXO TÉCNICO**

### *TECHNICAL ANNEX*

**0370-RED-4287**

## **A. MODEL DESCRIPTION**

### **A.1. GENERAL INFORMATION ON THE RADIO EQUIPMENT:**

**Manufacturing country:** China  
**Brand:** ONWA  
**Commercial designation:** ONWA  
**Country of commercialization:** European Union  
**Radio service:** AIS and GPS RX  
**Application:** AIS MOB

#### **A.1.1 TRADE VERSIONS/VARIANTS: KS-33R**

### **A.2. FEATURES: AIS MOB**

### **A.3. SOFTWARE VERSION(S): V2.0**

### **A.4. HARDWARE VERSION(S): V3.1**

### **A.5. OTHER COMPONENTS**

- **Disposable antenna** YES  NO 
  - o **Antenna gain (dBi)\*:**  
(\* ) only in case of YES
- **Battery (model, manufacturer, characteristics,..):**
  - o Manufacturer: Shanwei Express Communication & Navigation Company Ltd.
  - o Model: CR123A-2S
  - o Specification: 6.0Vdc, 1600mAh

## ANEXO TÉCNICO

### TECHNICAL ANNEX

**0370-RED-4287**

#### A.6. OPERATING FREQUENCIES AND MAXIMUM POWER EMITTED BY BAND

BAND	SERVICE	OPERATIONAL FREQUENCY (TX)		MAX POWER*	CNAF IR	CNAF/ UN-XXX
Band 1	AIS1	F_min: 161.975MHz	F_max: 161.975MHz	27.53 dBm	IR-152	UN-98
Band 2	AIS2	F_min: 162.025MHz	F_max: 162.025MHz	27.53 dBm	IR-152	UN-98
Band 3	GPS Receiver	F_min: 1575.42MHz	F_max: 1575.42MHz	N/A	N/D	N/D

N/A: Not applicable  
N/D: Not defined

\* Conducted power for mobile technologies and EIRP for other technologies.

#### A.7. OTHER PARAMETERS OF RADIO INTERFACE SPECIFICATIONS (RI)

Requires license/Use authorization: YES  NO

## ANEXO TÉCNICO

### TECHNICAL ANNEX

0370-RED-4287

## B. TEST PROTOCOL

REQUIREMENT	STANDARD	Laboratory	Report no.
<b>Health and Safety (Article 3.1a)</b>	EN 62368-1:2014/A11:2017	ShenZhen STS Test Services Co.,Ltd.	STS2005234A01
	EN 50665:2017	ShenZhen STS Test Services Co.,Ltd.	STS2005234H01
<b>EMC (Article 3.1b)</b>	ETSI EN 301 843-1 V2.2.1	ShenZhen STS Test Services Co.,Ltd.	STS2005234E01
	ETSI EN 301 843-2 V2.2.1		
	EN 60945:2002	ShenZhen STS Test Services Co.,Ltd.	STS2005234E02
<b>Radio Aspects (Article 3.2)</b>	ETSI EN 303 098 V2.2.1	ShenZhen STS Test Services Co.,Ltd.	STS2005234W01
	EN 62287-1:2017		
	ETSI EN 303 413 V1.1.1	ShenZhen STS Test Services Co.,Ltd.	STS2005234W03

## C. RESTRICTIONS

Restrictions: YES  NO

Describe restrictions: N/A.

## **ANEXO TÉCNICO** *TECHNICAL ANNEX*

**0370-RED-4287**

### **D. ACTIVITIES CARRIED OUT BY THE NB**

#### **Technical Documentation Review**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Assembly drawings(s)                   | <input checked="" type="checkbox"/> Block diagram   | <input checked="" type="checkbox"/> Circuit diagram/schematics   |
| <input checked="" type="checkbox"/> External photographs        | <input checked="" type="checkbox"/> Label drawing/location                                    | <input checked="" type="checkbox"/> User manual                  |
| <input checked="" type="checkbox"/> Internal photographs        | <input checked="" type="checkbox"/> Operational description                                   | <input checked="" type="checkbox"/> Risk Assessment              |
| <input checked="" type="checkbox"/> Test set-up photographs     | <input checked="" type="checkbox"/> Test reports  | <input checked="" type="checkbox"/> EU declaration of conformity |
| <input checked="" type="checkbox"/> Bill of materials           | <input checked="" type="checkbox"/> PCB layout  |  |
| <input type="checkbox"/> Installation diagrams and explanations | <input checked="" type="checkbox"/> List of applied (harmonized and non-harmonized) standards |  |

#### **Other activities**

- RIS
- EFIS/CNAF
- Review Technical Justifications
- Analysis report
- EU type certification issued

### **E. ADDITIONAL INFORMATION:**

Radio Equipment Directive 2014/53/EU, Article 10.4: Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Directive 2014/53/EU, Annex III, Module B.7: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate.

This review includes draft standards, deviations from the standards and technical justification for compliance.