



Organismo Notificado Nº 0370

CERTIFICADO DE EXAMEN UE DE TIPO

EU-TYPE EXAMINATION CERTIFICATE



No

0370-RED-4162

EMITIDO POR / ISSUED BY	LGAI TECHNOLOGICAL CENTER - No. 0370 (APPLUS)	
SOLICITANTE / APPLICANT	Balena Ltd. 6th Floor, One London Wall London, London, EC2Y 5EB United Kingdom	
FABRICANTE (Nombre, Dirección) MANUFACTURER (Name, Address)	Balena Ltd. 6th Floor, One London Wall London, London, EC2Y 5EB United Kingdom	
COMERCIALIZADO POR (marca) COMMERCIALISED BY (Brand)	balenaFin	
PRODUCTO PRODUCT	balenaFin	
TIPOS TYPES	v1.1	
Versión HW / FMW HW / FMW version	SW: v2.51 HW: v10	
DIRECTIVA APLICABLE APPLICABLE DIRECTIVE	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 <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>	
DESCRIPCIÓN DESCRIPTION	The device is a balenaFin with Bluetooth, 2.4G WiFi and 5G WiFi.	
CUMPLE CON LOS REQUISITOS ESENCIALES MEET ESSENTIAL REQUIREMENTS	Art.3.1a Salud y Seguridad / <i>Art.3.1a Health & Safety</i>	Art. 3.2 Uso eficiente del espectro radioeléctrico / <i>Art.3.2 Efficient use of Radio spectrum</i>
	Art.3.1b EMC / <i>Art.3.1b EMC</i>	Art 3.3 Características especiales / <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: 20/36401891
The evaluation of the technical documentation delivered is included in the technical file number: 20/36401891

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

Bellaterra, 14 de octubre de 2020 // 14th October 2020



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*

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A. MODEL DESCRIPTION

A.1. GENERAL INFORMATION ON THE RADIO EQUIPMENT:

Manufacturing country: United Kingdom
Brand: balenaFin
Commercial designation: balenaFin
Country of commercialization: European Union
Radio service: Bluetooth, 2.4G WiFi and 5G WiFi
Application: balenaFin

A.1.1 TRADE VERSIONS/VARIANTS: v1.1

A.2. FEATURES: balenaFin

A.3. SOFTWARE VERSION(S): v2.51

A.4. HARDWARE VERSION(S): v10

A.5. OTHER COMPONENTS

- **Disposable antenna** YES ☒ NO ☐
 - **Antenna gain (dBi)*: 2dBi**
(*) only in case of YES

ANEXO TÉCNICO

TECHNICAL ANNEX

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

BAND	SERVICE	OPERATIONAL FREQUENCY (TX)		MAX POWER*	CNAF IR	CNAF/ UN-XXX
Band 1	Bluetooth	F_min: 2402MHz	F_max: 2480MHz	3.46 dBm	IR-163	UN-85
Band 2	Bluetooth LE	F_min: 2402MHz	F_max: 2480MHz	9.60 dBm	IR-163	UN-85
Band 3	WiFi 2.4GHz	F_min: 2412MHz	F_max: 2472MHz	15.32 dBm	IR-163	UN-85
Band 4	WiFi 5.2GHz	F_min: 5180MHz	F_max: 5240MHz	5.80 dBm	IR-12	UN-128
Band 5	WiFi 5.3GHz	F_min: 5260MHz	F_max: 5320MHz	5.53 dBm	IR-12	UN-128
Band 6	WiFi 5.6GHz	F_min: 5500MHz	F_max: 5700MHz	6.38 dBm	IR-12	UN-128

* 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 ☒

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B. TEST PROTOCOL

REQUIREMENT	STANDARD	Laboratory	Report no.
Health and Safety (Article 3.1a)	EN 62368-1:2014+A11:2017	Shenzhen Zhongjian Nafang Testing Co., Ltd.	CCISS190803901
	EN 62311:2008	Shenzhen Zhongjian Nafang Testing Co., Ltd.	CCISE190807907
EMC (Article 3.1b)	ETSI EN 301 489-1 V2.2.3	Shenzhen Zhongjian Nafang Testing Co., Ltd.	CCISE190807901V01
	Draft ETSI EN 301 489-17 V3.2.2		
	EN 55032:2015	Shenzhen Zhongjian Nafang Testing Co., Ltd.	CCISE190807906V01
	EN 55035:2017		
	EN 61000-3-2:2014		
Radio Aspects (Article 3.2)	ETSI EN 300 328 V2.2.2	Shenzhen Zhongjian Nafang Testing Co., Ltd.	CCISE190807902V01 CCISE190807903V01 CCISE190807904V01
	ETSI EN 301 893 V2.1.1	Shenzhen Zhongjian Nafang Testing Co., Ltd.	CCISE190807905V01 CCISE190807908V01

C. RESTRICTIONS

Restrictions: YES ☒ NO ☐

Describe restrictions: The use for 5GHz WLAN band is restricted to indoor use.

ANEXO TÉCNICO *TECHNICAL ANNEX*

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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.Z: 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.

