



User Manual

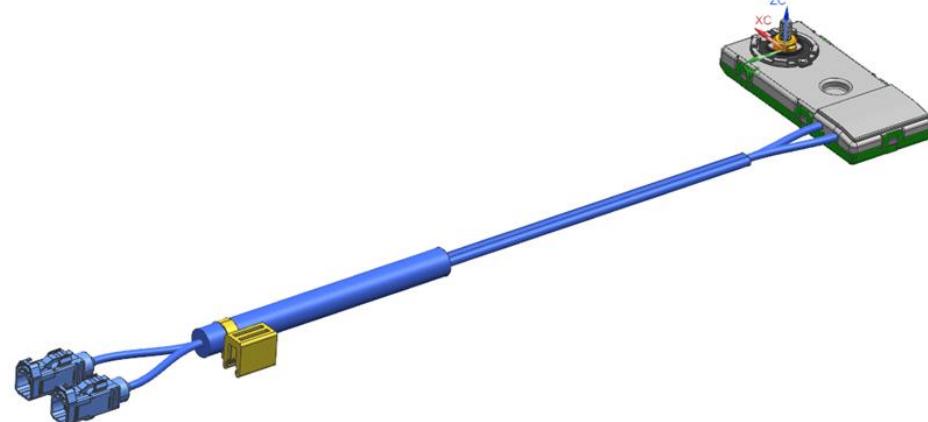
Family: Amplifier F6

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ASK Industries s.p.a.

C.P. 110 c/o U.P. RE2 42121 Reggio Emilia IT

F6 Family



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REVISION INDEX:

Revision Index	Changed parts	Issue date
01	First issue	21/07/2020

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1. Generic product description

The product is an antenna amplifier for indoor use, to be installed in accordance with the instructions, for receiving and amplifying signals of the subset of radio frequencies for which it was designed. For correct operation, the product is connected to passive reception elements built into the car.

[TABLE 1]

Product family:	AM-FM-DAB PSA Amplifier
Antenna:	Rod type, not supplied in the packaging
Functional description	<ul style="list-style-type: none"> Unidirectional signal amplifier that operates in the frequency bands given in table 2.1 and 2.2. The amplifier was designed for indoor use, preferably mounted under thin (less than 2 mm) metal surfaces . <p>The product needs a power supply for correct operation, which must be supplied through each coaxial cable, i.e. superimposed on the RF signal carried through these cables.</p>
Installation environment:	<p>For use in an internal environment</p> <p>Connected to a power supply with automatic current limiting or an overcurrent protection system that allows a maximum current of 1 A and a minimum of 150 mA. Recommended 200 mA (e.g. fuse)</p>
Operating temperature:	-40°C / +85°C
Weight	Less than 100 g

2. Variants Table

[TABLE 2.1]

ASK P/N	Secondary code	Product functionality								Notes
		AM	FM	DAB	Tel.	Nav	FFB	TV		
83852800	5802128245	L1	L1	W						Ref
83847600	137443008	L1	L1	W						Var
83852700	5802105847	L1	L1	W						Var
83848500	519901390	L1	L1	W						Var
83859500	5802423167	L1	L1	W						Var
83862000	52134159	L1	L1	W						Var
83862700	5802707245	L1	L1	W						Var
83863800	5801714113	L1	L1	W						Var

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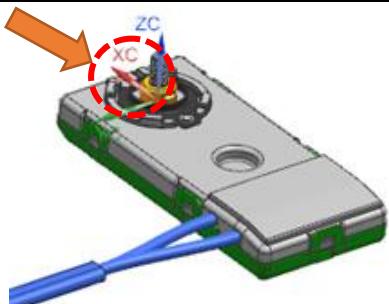
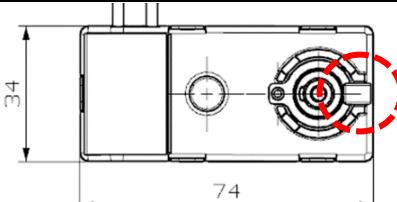
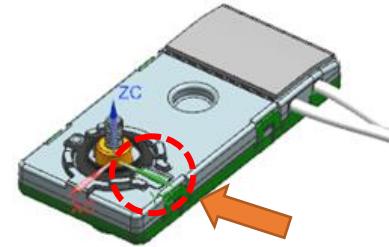
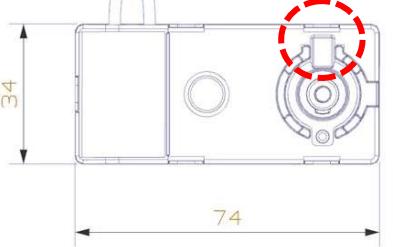
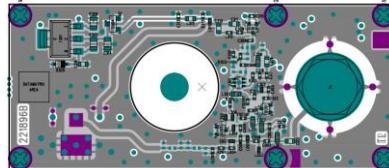
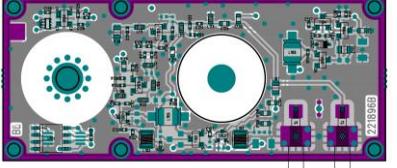
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[TABLE 2.2]**Product operating band classification**

Function	Function class <i>Alternative columns</i>			Sub-group	Bot. Freq. [MHz]	Top Freq. [MHz]	Notes
AM	W			LW	0,155	0,522	
		L1		MW	0,522	1.71	
FM	W	L1		EU	87	108	
		L2		Jap	76	95	
DAB	W	L1		Band III	174	240	
				Band L	1452	1492	
TV	W	L2		Jap	90	770	
		L4		Band I	47	68	
				Band III	174	230	
		L3		Band IV	470	606	L3 guarantees operation over the whole range: fmin Band I Fmax Band IV with no discontinuity
				Band V	606	862	L1 guarantees operation over the whole range: fmin Band I Fmax Band V with no discontinuity
		L4	L3	Band 315	314,997	315,003	
			L2	Band 433	433,917	433,923	
			L1	Band 868	868,298	868,302	
TEL	W	L1		GSM	790	960	
				DCS	1710	1880	
				UMTS	1920	2170	
NAV	W	L1		GPS	1571.42	1579.42	
				Glonass	1598.06	1605.38	
				Beidoo	1559.05	1563.15	
LTE	W	L5	L1	LTE 700	690	790	
			L2	LTE 800	790	960	
			L3	LTE 1450	1427	1510	
		L4		GSM 1800	1710	1990	
				GSM 1900			
				LTE 2015	2010	2025	
				UMTS downlink	2110	2170	
				LTE 2350	2300	2690	
				Wi-Fi			

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[TABLE 2.3]			
Scope	Possible variants	Detail of Side A	Detail of Side B
Mechanical	VAR_M1		
	VAR_M1.2		
Finish		Various surface finishes	
Electronic	VAR_E1		
	Each of the electrical variants may be partially assembled (by removing electronic components with respect to the full assembly) to provide a product with limited operating bands		

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3. Product functions - Specific Description

[TABLE 3]

ASK P/N	Mechanical /electronic variant	Reception bands				Power supply range
		Connector Fakra	Function	Connector	Function	
83852800	VAR_M1.1	White	AM/FM			8.5 V – 16.0V (on the indicated connector)
	VAR_E1	Grey	DAB			8.5 V – 16.0V (on the indicated connector)
83847600	VAR_M1.1	White	AM/FM			8.5 V – 16.0V (on the indicated connector)
	VAR_E1	Grey	DAB			8.5 V – 16.0V (on the indicated connector)
83852700	VAR_M1.2	White	AM/FM			8.5 V – 16.0V (on the indicated connector)
	VAR_E1	Grey	DAB			8.5 V – 16.0V (on the indicated connector)
83848500	VAR_M1.2	White	AM/FM			8.5 V – 16.0V (on the indicated connector)
	VAR_E1	Grey	DAB			8.5 V – 16.0V (on the indicated connector)
83859500	VAR_M1.2	White	AM/FM			8.5 V – 16.0V (on the indicated connector)
	VAR_E1	Grey	DAB			8.5 V – 16.0V (on the indicated connector)
83862000	VAR_M1.2	White	AM/FM			8.5 V – 16.0V (on the indicated connector)
	VAR_E1	Grey	DAB			8.5 V – 16.0V (on the indicated connector)
83862700	VAR_M1.1	White	AM/FM			8.5 V – 16.0V (on the indicated connector)
	VAR_E1	Grey	DAB			8.5 V – 16.0V (on the indicated connector)
83863800	VAR_M1.2	White	AM/FM			8.5 V – 16.0V (on the indicated connector)
	VAR_E1	Grey	DAB			8.5 V – 16.0V (on the indicated connector)

(*) These PNs represent the reference for the other PN regarding the mechanical and electrical parts.

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4. Service or Installation Manual

[TABLE 4.1]

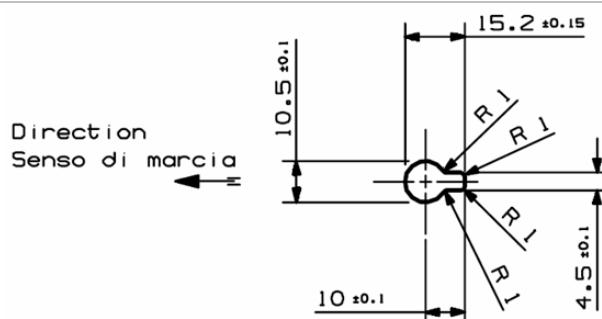
For all models covered by this File (all mechanical variants)

Suitable place:	Refer to chapter 4.5.1
a) Press the shell into the corresponding hole [tab. 4.i] on the outside of the installation. Keep pressing until you hear a "click" as the pre-fixing system engages	b) Install the amplifier in an internal environment, under the installation surface; Insert the screw of the product into the hole in the previously installed shell.
c) Check that the product is correctly aligned with the shell. The section of the product that interferes with the shell has a corresponding key profile	d) Use a screwdriver with a suitable tip to tighten the fixing screw: Torque = 3.5 Nm

[TABLE 4.2]

For all models covered by this File (all mechanical variants)

Exact dimensions for housing the product anchoring.



NOTE: This housing governs how well the mechanical anchoring holds, i.e. it is only ensured if this outline is 100% correct.

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5. Warnings about the installation environment

- The product is designed to be used in accordance with the installation rules shown in tables 4.1-4.2 for normal use.
- We recommend that the installation be carried out by qualified technical personnel using electrostatic discharge protection: anti-ESD.
- We recommend anchoring it to a metal surface.
- We recommend that the product be installed away from sources that can generate strong electrical noise such as: Motors, power supplies, transformers, intermittent lights, actuators, digital control units, data cables, pulsed signal sources of various kinds.
- We recommend that the product be installed in an area that is free from lateral obstructions and with a direct line of sight to the sky.
- We recommend a distance of at least 1 m from lateral metal surfaces.
- If it is not possible to meet the listed recommendations, you may experience reduced performance of some of the functions of this product.
- Conversely, this product does not generate any known problems to the installation environment.
- However, we do not recommend leaving the product in operation when it is close to or touching the human body for continuous periods, even though there is no scientific evidence that this will affect human health.
- The product may be used and installed anywhere that the law allows the installation of radio equipment without any specific limitations.
- When installing in places that are subject to specific limitations, the installer is responsible for ensuring that the product can be used.
- The installer is wholly liable for positioning the product inappropriately or for failure to comply with specific regulations that impose restrictions or limitations on normal product use.
- The product shall be positioned out of the reach of children.

6. Operation Manual

- The product does not require a specific manual.
- For correct product operation, make sure that you:
 - a. Install it correctly in a suitable place (in accordance with [tab. 4.1] and [tab. 4.2], refer to the "use restrictions and warnings" section in chap. 5)
 - b. Connect it correctly to the demodulator equipment: radio tuner (not part of this product)
 - c. Provide the installed product with the correct power supply (in accordance with the electrical spec. in [tab 3])
 - d. Do not expose the product to direct flux from radio links. (radar, dishes, military zones subject to special radio regulations, etc.)

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7. User qualifications

- There are no specific restrictions on use of the product by unqualified personnel.
- However, we do not recommend leaving the product in operation when it is close to or touching the human body for continuous periods, even though there is no scientific evidence that this will affect human health.

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8. Information and responsibility

1. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment
2. The F6 family products, composed from **5802128245 – 137443008 – 5802105847 – 519901390 – 5802423167 – 52134159 – 5802707245 – 5801714113**, FCC ID: 2AXHC-F6.
3. Compliance Information: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
4. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

5.

CANADIAN REPRESENTATIVE LETTER OF ATTESTATION

Canadian Representative

Company Name: **Canadian Certification Consulting, Inc.**
ISED Company No.: **10842A**
Contact Name: **Jon Hughes, President**
Street Address: **2210 Horizon Drive, Suite 17**
City/Province/Zip: **West Kelowna, BC V1Z 3L4, Canada**
Telephone No.: **1-250-575-1719**
Facsimile No.: **1-250-769-0045**
E-mail: **info@can-cert.com**

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9. EU type certificate



PRD N° 135 B
Signature of EA, IEC and ILAC
Mutual Recognition Agreements

Certificate No:
2051-RED-193601
File No:
379357

Notified Body 2051 – Radio Equipment Directive 2014/53/EU

EU-Type Examination Certificate

2051-RED-193601

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)

Vehicle antenna amplifier and receiver
Model: F6

Placed on the market under the name or trade mark of

Ask Industries S.p.A.
Via dell'Industria 12/14/16
60037 - Monte San Vito (AN), Italy

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

Art 3.1a: EN 62368-1:2014
Art 3.1b: ETSI EN 301 489-1 V2.2.0:2017
ETSI EN 301 489-3 V2.1.1:2017
Art 3.2: ETSI EN 303 345 V1.1.7:2017

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

Certificate issued September 09, 2019
Certificate was first issued March 21, 2019 (n. 2051-RED-191201)

Firmato digitalmente
da DE ANGELIS MARCO
Data: 2019.09.09
11:05:06 +02'00'

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 Camoccio 4, 20853 Blassono (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.

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PRO N° 135 8
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

Certificate No:
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File No:
379357

ANNEX 1 – PRODUCT SPECIFICATIONS

PRODUCT DESCRIPTION

Equipment identification: Vehicle antenna amplifier and receiver
Model/type: F6
Variants: 83852800 (5802128245), 83847600 (137443008), 83852700 (5802105847),
83848500 (519901390), 83859500 (5802423167), 83862000 (52134159),
83862700 (5802707245), 83863800 (5801714113)
Brand/trade name: 
Supply voltage: 8.5-16 Vdc
Rated power/current: 20-90 mA

TECHNICAL CHARACTERISTICS

Type of radio interface: Receive-only radio equipment
Intended purpose: Device for the receiving and the amplification of radio signals (without demodulation or frequency conversion)
Class of equipment: Class I, Sub-class 07 ("Receiver only equipment") of Commission Decision 2000/299/EC
Frequency range: See Annex 4
Modulation type: See Annex 4
Antenna type: External Rod antenna (not provided in the packaging)
Firmware: Not applicable

MANUFACTURER

Name: Ask Industries S.p.A.
Address: Via dell'Industria 12/14/16 - 60037 - Monte San Vito (AN), Italy

ADDITIONAL INFORMATION

None.

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Certificate Revision: 0

Nemko S.p.A.
Authorized signatory: Marco De Angelis

NB 2051

Nemko Italy
Nemko SpA a Socio Unico, Via del Carroccio 4, 20053 Blassono (MB)
TEL +39 039 220 12 01 FAX +39 039 220 12 21 EMAIL segreteria@nemko.com
COD.FISC/PIVA IT02540280969 CAP.800. € 895.960,00 i.v. IBCR.R.I. MB 02540280969
Doc.: C121_NB-RED REV. 3 (03 January 2018)

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PRD N° 135 B
Signature of EA, IAF and ILAC
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379357

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: 330318TRFSAF, dated: 2017-06-08)
- EMC test report by Reggio Emilia Innovazione S.C.a.r.l. (id: 2017-00238, dated: 2017-06-13)
- Radio test report by Reggio Emilia Innovazione S.C.a.r.l. (id: 2017-00238, dated: 2017-06-13)

Additional documentation

- RED technical file by Ask Industries S.p.A. (id: 17/17 rev.04, dated 2019-07-22)

ADDITIONAL INFORMATION

None.

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Certificate Revision: 0

Nemko S.p.A.

Authorized signatory: Marco De Angelis

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COD.FISC./P.IVA IT02540280969 CAP.GOC. € 895.960,00 I.v. IBCR.R.I. MB 02540280969
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ANNEX 3 – VARIANTS

ASK P/N	Codice secondario	Funzione presente nel prodotto								Note
		AM	FM	DAB	Tel.	Nav	FFB	TV		
83852800	5802128245	L1	L1	W						Rif
83847600	137443008	L1	L1	W						Var
83852700	5802105847	L1	L1	W						Var
83848500	519901390	L1	L1	W						Var
83859500	5802423167	L1	L1	W						Var
83862000	52134159	L1	L1	W						Var
83862700	5802707245	L1	L1	W						Var
83863800	5801714113	L1	L1	W						Var

ASK/PN: Ask production code

Codice secondario (alternative code): alternative production code indicated on the product label

Firmato digitalmente
da DE ANGELIS MARCO
Data: 2019.09.09
11:07:04 +02'00'

Certificate Revision: 0

Nemko S.p.A.
Authorized signatory: Marco De Angelis

NB 2051

Nemko Italy

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Doc.: C121_NB-RED REV. 3 (03 January 2018)

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 ASK Automotive Industries Group zendan DRIVE	<h1>User Manual</h1>	Report no.:	01/20
		First issue date:	21/07/2020
	<i>Family: Amplifier F6</i>	Revision	01
		Page:	15/16

ASK Industries s.p.a.

C.P. 110 c/o U.P. RE2 42121 Reggio Emilia IT



PRO N° 135 B
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

Certificate No:
2051-RED-193601
File No:
379357

ANNEX 4 - FREQUENCY RANGES

Frequency bands implemented according to Table 1.a in Annex 3:

[TABELLA 1.b]							
Classificazione Bande operative di prodotto							
Funzione	Classe di funzionamento Colonne alternative			Sottogruppo	Inz. Freq [MHz]	Fine Freq. [MHz]	Note
AM	W				LW	0.155	0.522
		L1		MW	0.522	1.71	
FM	W	L1		EU	87	108	
		L2		Jap	76	95	
DAB	W	L1		Banda III	174	240	
				Banda L	1452	1492	

<< End of certificate >>

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Data: 2019.09.09
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Certificate Revision: 0

Nemko S.p.A.
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	<i>Family: Amplifier F6</i>	Revision	01
			Page: 16/16

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10. Declaration of Conformity

	<h3>Declaration of Conformity</h3>	 The CE Mark is a mandatory conformity mark for products sold within the European Economic Area (EEA). It indicates that the product complies with the relevant European harmonized standards and directives.
---	------------------------------------	---

We manufacturer

Company name:	ASK Industries S.p.A.
Postal address:	Via dell'Industria n.12/14/16
Postcode and City:	60037 Monte San Vito (AN)
Telephone number:	+39-071-74521
E-mail address:	WebContact.CEMark-Antennas@askgroup.it

Represented by signatory, declare under our sole responsibility that the following products:

Apparatus:	F6
Type:	Receiving antenna amplifier: AM, FM, DAB.
Model:	5802128245
Variants:	137443008 5802105847 519901390 5802423167 52134159 5802707245 5801714113

is in conformity with the regulations of **European Directive: 2014/53/EU of Radio Equipment's.**

Standards or normative documents:	art. 3.1a "Safety"	EN 62368-1:2014
	art. 3.1b "EMC"	ETSI EN 301 489-1 V2.2.0:2017 ETSI EN 301 489-3 V2.1.1:2017
	art. 3.2 "Radio"	ETSI EN 303 345 V1.1.7:2017
Notified Body:	Nemko S.p.A. (NB 2051)	
Laboratory:	3.1.a : Laboratori Nemko S.p.A. 3.1b/3.2 : REInnova Laboratori	

The Notified Body Nemko S.p.A. has performed the conformity assessment of the technical documentation according to the procedure set out in Annex III (module B) of Directive 2014/53/EU and it has issued the:

EU-Type Examination Certificate n. 2051-RED-193601

Date of first issue: 21/06/2017	Alberto Bianchi
	COO Representative ASK
Reggio nell'Emilia, li 10/09/2019	

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VAT Code: IT 00091200428
Paid in Capital Euro 581.017,50

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