



# CERTIFICATE *of* EXAMINATION



Certificate Validation

## NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE

*SHAN20-EU / 25 May 2022 / Rev B*

**Radio Equipment Directive (RED) 2014/53/EU**

MiCOM Labs Inc., Notified Body Number 2280 declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the essential requirements of the above noted Directive.

Product Name:  
**Tactilon Dabat**

Approval Holder Name:  
**Airbus Defence and Space Oy**



  
**Gordon Hurst, Product Certifier**

This Certificate is Issued under the Authority of:  
**MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA**

Notified Body Number: 2280



## Notified Body EU-Type Examination Certificate

**SHAN20-EU / 25 May 2022 / Rev B**

**for Radio Equipment Directive (RED) 2014/53/EU**

Product Name:

**Tactilon Dabat**

Product Model Numbers: **TD-2**

Brand Name: **AIRBUS**

**Approval Holder:** Airbus Defence and Space Oy, Hiomotie 32 00380 Helsinki FINLAND

**Product Manufacturer:** Airbus Defence and Space Oy, Hiomotie 32 00380 Helsinki FINLAND

### Standards

Group	Name
Article 3.1(a) Health & Safety	EN 62368-1:2014/A11:2017
	EN 50332-2:2013
	EN 62209-1:2016
	EN 62209-2:2010/A1:2019
	EN 50566:2017
	EN 50360:2017
	EN 50663:2017
	EN 62479:2010
Article 3.1(b) Electromagnetic Compatibility	EN 301 489-1 V2.2.3
	EN 301 489-3 V2.1.1
	EN 301 489-5 V2.2.1
	EN 301 489-17 V3.2.4
	EN 301 489-19 V2.2.0
	EN 301 489-52 V1.1.2
	EN 55032:2015
	EN 55035:2017
Article 3.2 Effective Use of Spectrum	EN 300 328 V2.2.2
	EN 303 413 V1.1.1
	EN 301 893 V2.1.1
	EN 300 330 V2.1.1
	EN 300 440 V2.1.1
	EN 300 392-2 V3.8.1
	EN 300 394-1 V3.3.1
	EN 300 396-2 V1.4.1
	EN 301 511 V12.5.1
	EN 301 908-1 V13.1.1
EN 301 908-2 V13.1.1	
EN 301 908-13 V13.1.1	

## Annex 1 to EU-Type Examination

**EU-Type examination on the essential requirements  
Article 3**

<b>Article 3.1 - a)</b> Health and Safety	Assessed
<b>Article 3.1 - b)</b> Electromagnetic compatibility	Assessed
<b>Article 3.2 -</b> Effective use of radio spectrum	Assessed
<b>Article 3.3 - a)</b> interworks with Accessories/Chargers	Not Applicable
<b>Article 3.3 - b)</b> interworks with Radio Networks	Not Applicable
<b>Article 3.3 - c)</b> can connect to interfaces	Not Applicable
<b>Article 3.3 - d)</b> does not harm the network, misuse network resources	Not Applicable
<b>Article 3.3 - e)</b> privacy protections	Not Applicable
<b>Article 3.3 - f)</b> fraud protections	Not Applicable
<b>Article 3.3 - g)</b> emergency services access	Not Applicable
<b>Article 3.3 - h)</b> assist users with disabilities	Not Applicable
<b>Article 3.3 - i)</b> integrity of software	Not Applicable

**Description of Apparatus**

Company Name	<b>Airbus Defence and Space Oy</b>
Certification No.	<b>SHAN20-EU</b>
Issue Date / Rev	<b>25 May 2022 / Rev B</b>
Equipment Description	<b>Tactilon Dabat</b>
Hardware Version	<b>V4.00</b>
Firmware Version	<b>dabatest_userdebug_3_0_8_9</b>



## Notified Body EU-Type Examination Certificate

**SHAN20-EU / 25 May 2022 / Rev B**

**for Radio Equipment Directive (RED) 2014/53/EU**

### Emission Information

Technology	Frequency MHz		Emission Designator	RF Power		
	From	To		Max	Type	Field Strength
NFC	13.56MHz	13.56MHz	A1K	--	--	--
GLONASS/BDS(Rx)	1559MHz	1610MHz		--	--	--
GPS	1575.42MHz	1575.42MHz		--	--	--
GSM 1800	1710MHz	1785MHz	GXW	29.3dBm	Conducted	--
E-UTRA Band3	1710MHz	1785MHz	G7D,W7D	23.7dBm	Conducted	--
UTRA Band1	1920MHz	1980MHz	F9W	21.39dBm	Conducted	--
E-UTRA Band40	2300MHz	2400MHz	G7D,W7D	22dBm	Conducted	--
Bluetooth	2402MHz	2480MHz	F1D,G1D	9.94dBm	EIRP	--
Bluetooth LE	2402MHz	2480MHz	F1D	4.24dBm	EIRP	--
WLAN	2412MHz	2472MHz	G1D,D1D	16.46dBm	EIRP	--
E-UTRA Band7	2500MHz	2570MHz	G7D,W7D	21.8dBm	Conducted	--
E-UTRA Band38	2570MHz	2620MHz	G7D,W7D	22.7dBm	Conducted	--
TETRA	380MHz	430MHz		32.55dBm	Conducted	--
RLAN	5180MHz	5700MHz	D1D	17.55dBm	EIRP	--
SRD	5745MHz	5825MHz	D1D	13.33dBm	EIRP	--
E-UTRA Band28	703MHz	748MHz	G7D,W7D	20.89dBm	Conducted	--
E-UTRA Band20	832MHz	862MHz	G7D,W7D	22.8dBm	Conducted	--
UTRA Band8	880MHz	915MHz	F9W	21.88dBm	Conducted	--
GSM 900	880MHz	915MHz	GXW	31.8dBm	Conducted	--

**Technical Construction File Details: (Documents Reviewed)**
**Technical Report(s):**

Article 3.1(a) Health & Safety:

CHTEW21110172  
 CHTEW21110185  
 JPTUV-109821-M1  
 DK-86986-M1-UL  
 S19070202405001-A1  
 50344664 002  
 462276  
 S19071802801001-A1  
 DK-86332-M1-UL  
 50344664 001

Article 3.1(b) Electromagnetic Compatibility:

CHTEW21120137  
 CHTEW2111011801  
 2021EMC361

Article 3.2 Effective Use of Spectrum:

2021FTA364  
 CHTEW21110084  
 CHTEW21110088  
 CHTEW21110085  
 CHTEW21110081  
 CHTEW21110087  
 2021RSE362  
 2021FTA365  
 2021FTA363  
 CHTEW21110082  
 CHTEW21110083  
 SHTEW21110118  
 CHTEW21110086

**Supporting Documentation:**

Service Agreement  
 Agent Authorization  
 EU Application  
 EU Declaration of Conformity  
 Block Diagram  
 BOM or Parts List  
 External Photographs  
 Internal Photographs  
 Label and its Location  
 Operational Description  
 PCB Layout  
 Risk Assessment Report and other supporting documents  
 (Radio)  
 Schematics  
 Test Setup - EU  
 User Manual  
 Original Certificate

**Scope**

This EU-Type Examination Certificate is given in respect of compliance of radio spectrum use Article 3 Paragraph 2 of the RED Directive 2014/53/EU. The scope of the evaluation and this certificate relates only to those items identified in 'Annex 1 to EU - Type Examination Certificate' for the specific product and Certificate number referenced above.

EU Type Examination was performed according to Module B: EU-type examination procedure per Annex III the Directive on the essential requirements in Article 3, for the specific product and Certificate Number referenced above.

This EU Type Examination Certificate is based upon the review of the Technical Documentation and supporting evidence for the adequacy of the technical design solution, it is only valid in conjunction with the attached Annexes. The scope of this statement relates to a single sample of the apparatus identified above and of the submitted documents only.

### Annex 2 to EU-Type Examination Obligations of the Applicant

#### Ref RED 2014/53/EU Article 10 - Obligations of manufacturers

1. When placing their radio equipment on the market, manufacturers shall ensure that it has been designed and manufactured in accordance with the essential requirements set out in Article 3.
2. Manufacturers shall ensure that radio equipment shall be so constructed that it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
3. Manufacturers shall draw up the technical documentation referred to in Article 21 and carry out the relevant conformity assessment procedure referred to in Article 17 or have it carried out. Where compliance of radio equipment with the applicable requirements has been demonstrated by that conformity assessment procedure, manufacturers shall draw up an EU declaration of conformity and affix the CE marking.
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.
5. Manufacturers shall ensure that procedures are in place for series production to remain in conformity with this Directive. Changes in radio equipment design or characteristics and changes in the harmonised standards or in other technical specifications by reference to which conformity of radio equipment is declared shall be adequately taken into account.

When deemed appropriate with regard to the risks presented by radio equipment, manufacturers shall, to protect the health and safety of end-users, carry out sample testing of radio equipment made available on the market, investigate, and, if necessary, keep a register of complaints, of non-conforming radio equipment and radio equipment recalls, and shall keep distributors informed of any such monitoring.

6. Manufacturers shall ensure that radio equipment which they have placed on the market bears a type, batch or serial number or other element allowing its identification, or, where the size or nature of the radio equipment does not allow it, that the required information is provided on the packaging, or in a document accompanying the radio equipment.
7. Manufacturers shall indicate on the radio equipment their name, registered trade name or registered trade mark and the postal address at which they can be contacted or, where the size or nature of radio equipment does not allow it, on its packaging, or in a document accompanying the radio equipment. The address shall indicate a single point at which the manufacturer can be contacted. The contact details shall be in a language easily understood by end-users and market surveillance authorities.
8. Manufacturers shall ensure that the radio equipment is accompanied by instructions and safety information in a language which can be easily understood by consumers and other end-users, as determined by the Member State concerned. Instructions shall include the information required to use radio equipment in accordance with its intended use. Such information shall include, where applicable, a description of accessories and components, including software, which allow the radio equipment to operate as intended. Such instructions and safety information, as well as any labelling, shall be clear, understandable and intelligible.

The following information shall also be included in the case of radio equipment intentionally emitting radio waves:

- (a) frequency band(s) in which the radio equipment operates;
- (b) maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.

9. Manufacturers shall ensure that each item of radio equipment is accompanied by a copy of the EU declaration of conformity or by a simplified EU declaration of conformity. Where a simplified EU declaration of conformity is provided, it shall contain the exact internet address where the full text of the EU declaration of conformity can be obtained.

10. In cases of restrictions on putting into service or of requirements for authorisation of use, information available on the packaging shall allow the identification of the Member States or the geographical area within a Member State where restrictions on putting into service or requirements for authorisation of use exist. Such information shall be completed in the instructions accompanying the radio equipment. The Commission may adopt implementing acts specifying how to present that information. Those implementing acts shall be adopted in accordance with the advisory procedure referred to in Article 45(2).

11. Manufacturers who consider or have reason to believe that radio equipment which they have placed on the market is not in conformity with this Directive shall immediately take the corrective measures necessary to bring that radio equipment into conformity, to withdraw it or recall it, if appropriate. Furthermore, where the radio equipment presents a risk, manufacturers shall immediately inform the competent national authorities of the Member States in which they made the radio equipment available on the market to that effect, giving details, in particular, of the noncompliance, of any corrective measures taken and of the results thereof.

12. Manufacturers shall, further to a reasoned request from a competent national authority, provide it with all the information and documentation in paper or electronic form necessary to demonstrate the conformity of the radio equipment with this Directive, in a language which can be easily understood by that authority. They shall cooperate with that authority, at its request, on any action taken to eliminate the risks posed by radio equipment which they have placed on the market.

#### **Ref RED 2014/53/EU Article 11 - Authorised representatives**

1. A manufacturer may, by a written mandate, appoint an authorised representative.

The obligations laid down in Article 10(1) and the obligation to draw up technical documentation laid down in Article 10(3) shall not form part of the authorised representative's mandate.

2. An authorised representative shall perform the tasks specified in the mandate received from the manufacturer. The mandate shall allow the authorised representative to do at least the following:

(a) keep the EU declaration of conformity and the technical documentation at the disposal of national market surveillance authorities for 10 years after the radio equipment has been placed on the market;

(b) further to a reasoned request from a competent national authority, provide that authority with all the information and documentation necessary to demonstrate the conformity of radio equipment;

(c) co-operate with the competent national authorities, at their request, on any action taken to eliminate the risks posed

#### **Article 19 General principles of the CE marking**

1. The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.

2. On account of the nature of radio equipment, the height of the CE marking affixed to radio equipment may be lower than 5 mm, provided that it remains visible and legible.

#### **Article 20 Rules and conditions for affixing the CE marking and the identification number of the notified body**

1. The CE marking shall be affixed visibly, legibly and indelibly to the radio equipment or to its data plate, unless that is not possible or not warranted on account of the nature of radio equipment. The CE marking shall also be affixed visibly and legibly to the packaging.

2. The CE marking shall be affixed before the radio equipment is placed on the market.

3. Member States shall build upon existing mechanisms to ensure correct application of the regime governing the CE marking and shall take appropriate action in the event of improper use of that marking.