



CERTIFICATE *of* EXAMINATION



[Certificate Validation](#)

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE

LC-A2903-EU / 29 May 2024 / Rev A

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:
Vehicle Mount Computer

Approval Holder Name:
Tersus GNSS Inc.




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

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

Product Name:

Vehicle Mount Computer

Product Model Numbers: **TC100**

Approval Holder: Tersus GNSS Inc., Building E2, No. 88, Jinjihu Avenue, Suzhou, P.R.China

Product Manufacturer: Shenzhen CP Device Technology Co., Ltd., FL 5, Bldg 15, Wisdomland Business Park, NanTou Gate 2nd Rd, Shenzhen, China

Standards

Group	Name
Article 3.1(a) Health & Safety	EN IEC 62311:2020
	EN IEC 62368-1:2020+A11:2020
Article 3.1(b) Electromagnetic Compatibility	EN 301 489-1 V2.2.3
	Draft EN 301 489-17 V3.2.6
	EN 301 489-19 V2.2.1
	EN 301 489-52 V1.2.1
	EN 55032:2015/A1:2020
	EN 55035:2017/A11:2020
Article 3.2 Effective Use of Spectrum	EN 300 328 V2.2.2
	EN 301 511 V12.5.1
	EN 301 908-1 V15.2.1
	EN 301 908-2 V13.1.1
	EN 301 908-13 V13.2.1
	EN 303 413 V1.2.1



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Annex 1 to EU-Type Examination

EU-Type examination on the essential requirements Article 3

Article 3.1 - a) Health and Safety	Assessed
Article 3.1 - b) Electromagnetic compatibility	Assessed
Article 3.2 - Effective use of radio spectrum	Assessed
Article 3.3 - a) interworks with Accessories/Chargers	Not Applicable
Article 3.3 - b) interworks with Radio Networks	Not Applicable
Article 3.3 - c) can connect to interfaces	Not Applicable
Article 3.3 - d) does not harm the network, misuse network resources	Not Applicable
Article 3.3 - e) privacy protections	Not Applicable
Article 3.3 - f) fraud protections	Not Applicable
Article 3.3 - g) emergency services access	Not Applicable
Article 3.3 - h) assist users with disabilities	Not Applicable
Article 3.3 - i) integrity of software	Not Applicable
Article 3.4 - Subject to common charger requirements	Not Applicable

Note on Article 3.4 Dates of Application

This aspect of the EU-Type Examination Certificate does not become legally applicable until the dates indicated below:-

28th December 2024 – Date of Applicability for handheld mobile phones, tablets, digital cameras, headphones, headsets, handheld videogame consoles, portable speakers, e-readers, keyboards, mice, portable navigation systems, earbuds.

28th April 2026 – Date of Applicability for laptops.

Description of Apparatus

Company Name	Tersus GNSS Inc.
Certification No.	LC-A2903-EU
Issue Date / Rev	29 May 2024 / Rev A
Equipment Description	Vehicle Mount Computer
Hardware Version	CP021-MAIN-V1.2
Firmware Version	CP_SPRING2_A_V1.11_LCD7- 10_W1B0_LPDDR_CN_MDM_2023 1031



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Emission Information

Technology	Frequency MHz		Emission Designator	RF Power		Field Strength
	From	To		Max	Type	
BT	2402MHz	2480MHz		2.46dBm	EIRP	--
BLE	2402MHz	2480MHz		0.04dBm	EIRP	--
2.4GWIFI	2412MHz	2472MHz		14.16dBm	EIRP	--
GSM 900	880MHz	915MHz		32.74dBm	Conducted	--
DCS 1800	1710MHz	1785MHz		29.73dBm	Conducted	--
WCDMA Band I	1920MHz	1980MHz		23.52dBm	Conducted	--
WCDMA Band VIII	880MHz	915MHz		23.54dBm	Conducted	--
LTE Band 1	1920MHz	1980MHz		22.75dBm	Conducted	--
LTE Band 3	1710MHz	1785MHz		22.40dBm	Conducted	--
LTE Band 7	2500MHz	2570MHz		22.95dBm	Conducted	--
LTE Band 8	880MHz	915MHz		22.94dBm	Conducted	--
LTE Band 20	832MHz	862MHz		22.97dBm	Conducted	--
LTE Band 28	703MHz	748MHz		23.49dBm	Conducted	--
LTE Band 38	2570MHz	2620MHz		22.96dBm	Conducted	--
LTE Band 40	2300MHz	2400MHz		23.48dBm	Conducted	--
GPS Receiver	1575.42MHz	1575.42MHz		--	--	--
GLONASS Receiver	1602.5625MHz	1602.5625MHz		--	--	--
Galileo Receiver	1589.74MHz	1589.74MHz		--	--	--
BDS Receiver	1561.098MHz	1561.098MHz		--	--	--
QZSS Receiver	1575.42MHz	1575.42MHz		--	--	--

Technical Construction File Details: (Documents Reviewed)

Technical Report(s):

Article 3.1(a) Health & Safety:

LCSA05114078EI

LCSA05114077S

Article 3.1(b) Electromagnetic Compatibility:

LCSA05114078EA

Article 3.2 Effective Use of Spectrum:

LCSA05114078EB

LCSA05114078EH

LCSA05114078EE

LCSA05114078EC

LCSA05114078EG

LCSA05114078ED

LCSA05114078EF

Supporting Documentation:

Service Agreement

Letter of Authorization

EU Application

EU Declaration of Conformity

External Photographs

Internal Photographs

Label and its Location

Risk Assessment

Test Setup - EU

Importer information declaration

Letter of Authorization

**Notified Body EU-Type Examination Certificate*****LC-A2903-EU / 29 May 2024 / Rev A*****for Radio Equipment Directive (RED) 2014/53/EU**

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).



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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.