

EU-Type Examination Certificate

2051-RED-215001

In compliance with Radio Equipment 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, this certificate applies to the product(s)

Tiny GNSS Low Power module
Model: Teseo-LIV3FL

Placed on the market under the name or trade mark of

STMicroelectronics S.r.l.
Via Camillo Olivetti, 2
20864 - Agrate Brianza (MB), Italy

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

Art 3.1a:	EN IEC 62368-1:2020+A11:2020
Art 3.1b:	ETSI EN 301 489-1 V2.2.3:2019 ETSI EN 301 489-19 V2.2.0:2020
Art 3.2:	ETSI EN 303 413 V1.2.1:2021

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

Certificate issued December 15, 2021

This Certificate was first issued on December 15, 2021

This certificate consists of 3 pages
Certificate revision: 1.0

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

NB 2051


This certificate has been granted by Nemko Spa a Socio Unico, Via del Carroccio 4, 20853 Biassono (MB), Italy

This certificate remains valid for ten years from the issue date, 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 S.p.A. 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.

ANNEX 1 – PRODUCT SPECIFICATIONS

PRODUCT DESCRIPTION

Equipment identification: Tiny GNSS Low Power module
Model/type: Teseo-LIV3FL
Variants: Teseo-LIV3RL
Brand/trade name: 
life.augmented
Supply voltage: 3.3 Vdc (typ.)
Rated power/current: 43 mA max

TECHNICAL CHARACTERISTICS

Type of radio interface: GNSS
Intended purpose: GNSS standalone low power module
Class of equipment: Class I, Sub-class 07 (Receive-only radio equipment) of Commission Decision 2000/299/EC
Frequency range: GPS/Galileo: 1559 ÷ 1610 MHz
GPS L1: 1575.42 MHz
Galileo E1: 1575.42 MHz
Glonass: 1592.9525 ÷ 1610.485 MHz
Glonass G1: 1602 MHz + (n * 0.5625 MHz, n = -7, -6, -5, ..., 0, ..., 6)
Modulation type: BPSK
Antenna type: Dedicated
Firmware: STA8090_4_6_xx_CP_LIV3FL

MANUFACTURER

Name: STMicroelectronics S.r.l.
Address: Via Camillo Olivetti, 2 - 20864 - Agrate Brianza (MB), Italy

ADDITIONAL INFORMATION

None.

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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: 448552TRFSAF, dated: 2021-10-21)
- EMC test report by Nemko SpA (id: 448552-1TRFEMC, dated: 2021-09-28)
- Radio test report by Nemko SpA (id: 448552TRFWL, dated: 2021-09-28)

Additional documentation

- RED technical file by STMicroelectronics S.r.l. (id: TCF-RED_Teseo-LIV3FL, Rev.0, dated 2021-11-11)

ADDITIONAL INFORMATION

None.

<< End of certificate >>

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