Certificate

Certificate
192140262/AA/02

Issued	02-07-2026	First issue	--
Valid until	--	Page	1 of 1

EU-type examination certificate (Module B)

In compliance with the procedure specified in the **Radio Equipment Directive Scheme** RD_061, Kiwa Nederland B.V. declares as designated Notified Body 0063 for the Radio Equipment Directive 2014/53/EU (including amending Directives and/or Regulations), that the stated product complies with the essential requirements of Article 3 of Directive 2014/53/EU as indicated under Annex 1 of this certificate and based on the applied technical standards and specifications as listed in Annex 2 of this certificate.

Product description:	Wi-Fi & Bluetooth Internet of Things Module
Trademark / brand name:	ESPRESSIF
Type/model designation:	ESP32-WROOM-32D
Hardware version:	V2.1
Software version:	V1.0
Variants:	See Annex 3 of this certificate

This certificate is granted to manufacturer:

Name:	**ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD.**
Address:	**Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park,**
City:	**Shanghai**
Country:	**China**

Wim van Loon
Managing Director Nederland

This certificate has three Annexes.
Disclosure of the certificate in full is permitted.
This certificate remains valid as long as the listed product(s) maintain a continued compliance with the essential requirements of Directive 2014/53/EU.

192140262AA02_final_20260702139

PRODUCTS
RvA C 002

Kiwa Nederland B.V.
Wilmersdorf 50
Postbus 137
7300 AC Apeldoorn
https://www.kiwa.com/nl/en/markets/radio-wireless-and-electrical-equipment/
Chamber of commerce: 08090048

ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD.
Suite 204, Block 2, 690 Bibo Road,
Zhang Jiang Hi-Tech Park,
Shanghai
China

Annex 1 to EU-type examination certificate

Certificate
192140262/AA/02

General Conditions

Each product which is covered by this EU-type examination certificate complies with the essential requirements of Directive 2014/53/EU as follows:

Article 3.1

Radio equipment shall be constructed so as to ensure:

C	(a)	the protection of health and safety of persons and of domestic animals and the protection of property, including the objectives with respect to safety requirements set out in Directive 2014/35/EU, but with no voltage limit applying;
C	(b)	an adequate level of electromagnetic compatibility as set out in Directive 2014/30/EU.

Article 3.2

C		Radio equipment shall be so constructed that it both effectively uses and supports the efficient use of radio spectrum in order to avoid harmful interference.

Article 3.3

Radio equipment within certain categories or classes shall be so constructed that it complies with the following essential requirements:

NA	(a)	radio equipment interworks with accessories other than the charging devices for the categories or classes of radio equipment, specified in Part I of Annex Ia of Directive 2014/53/EU, which are specifically referred to in paragraph 4 of this Article;
NA	(b)	radio equipment interworks via networks with other radio equipment;
NA	(c)	radio equipment can be connected to interfaces of the appropriate type throughout the Union;
NA	(d)	radio equipment does not harm the network or its functioning nor misuse network resources, thereby causing an unacceptable degradation of service;
NA	(e)	radio equipment incorporates safeguards to ensure that the personal data and privacy of the user and of the subscriber are protected;
NA	(f)	radio equipment supports certain features ensuring protection from fraud;
NA	(g)	radio equipment supports certain features ensuring access to emergency services;
NA	(h)	radio equipment supports certain features in order to facilitate its use by users with a disability;
NA	(i)	radio equipment supports certain features in order to ensure that software can only be loaded into the radio equipment where the compliance of the combination of the radio equipment and software has been demonstrated.

Article 3.4

Radio equipment falling within the categories or classes specified in Part I of Annex Ia of Directive 2014/53/EU shall be so constructed that it complies with the specifications relating to charging capabilities set out in that Annex for the relevant category or class of radio equipment.

Legend

C	=	Conform
NC	=	Not Conform
NA	=	Not applicable (for this product)
NP	=	Not performed (in this certificate)

Annex 1 to EU-type examination certificate

Certificate
192140262/AA/02

- This EU-type examination certificate does not cover or implies conformity with the requirements of other Directives and/or Regulations than Directive 2014/53/EU.
- This EU-type examination certificate has been issued in accordance with the relevant conformity assessment procedures in Article 17 and Annex III, module B, of Directive 2014/53/EU
- The validity of this EU-type examination certificate is limited to those products which are covered by the technical documentation of the manufacturer and as submitted by the manufacturer to the Notified Body for the conformity assessment.
- When the manufacturer places the products as covered by this EU-type examination certificate on the European Union market or the countries of the EEA, they are obliged to affix the CE marking to the product. The CE marking confirms conformity with the requirements of all EU harmonization legislation to which the product needs to comply.

  In addition to affixing the CE marking the manufacturer has to draw up and issue an EU Declaration of Conformity, declaring that the products as covered by this EU-type examination certificate are in compliance with the requirements of Directive 2014/53/EU and any other EU harmonization legislation applicable to the product(s).
- Manufacturers shall ensure that a product which they have placed on the market bears a type/model, batch or serial number or other element allowing its identification, or, where the size or nature of the product does not allow it, that the required information is provided on the packaging, or in a document accompanying the product.
- Manufacturers shall indicate on the product 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 the product does not allow it, on its packaging, or in a document accompanying the product. 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.
- If a product as covered by this EU-type examination certificate is to be modified then Kiwa shall be notified immediately of such intended modification(s). Depending on the nature of the modification(s) Kiwa may need to perform an additional assessment on the intended modification(s) and/or revised technical documentation in consultation with the manufacturer in order to either confirm the continued validity of the existing EU-type examination certificate, or to issue a revised EU-type examination certificate for those cases where the intended modification(s) affect the conformity with one or more essential requirements of Directive 2014/53/EU.
- Enforcement of a new amending directive or Delegated Regulation voids the validity of this EU-type examination certificate.
- The validity of this EU-type examination certificate, as far as article 3.3 d / e/ f is concerned, expires on the date on which either the Commission Delegated Regulation (EU) 2022/30/EU will be repealed by the European Commission or on the date as set by an amendment to the Commission Delegated Regulation (EU) 2022/30/EU which may indicate the end date of the transition period between the Commission Delegated Regulation (EU) 2022/30/EU and Regulation (EU) 2024/2847 (Cyber Resilience Act or CRA).
- In the event that standards which are referenced in this EU-type examination certificate are withdrawn or superseded or when standards are published indicating a change in the state of art and/or cover new technologies which were previously not covered by any published standard then Kiwa may need to perform an additional assessment in consultation with the manufacturer in order to either confirm the continued validity of the existing EU-type examination certificate or to issue a revised EU-type examination certificate for those cases where the conformity will be affected with one or more essential requirements of Directive 2014/53/EU.

Remarks and observations

The following conditions are applicable:

Based on 192140262/AA/01:
The EMC regulation EN301849-17 for the product has been updated from 3.2.4 to 3.3.1

AA/01: Update standards

Kiwa Nederland B.V.
Wilmersdorf 50
Postbus 137
NL-7300 AC Apeldoorn

kiwa

Annex 1 to EU-type examination certificate

Certificate
192140262/AA/02

Radio module. Assessed as mobile device with 20 cm separation distance.

When installing this radio module permanently into a host product to create a new radio equipment device; the manufacturer responsible for placing the final radio product on the market in the EU must assess if the combination of this radio module and the host product comply with the essential requirements of the RE Directive 2014/53/EU.

This radio module has been assessed for use in the temperature range of -40°C to +85°C and with an input voltage of 2.2 - 3.6V DC.

Kiwa Nederland B.V.
Wilmersdorf 50
Postbus 137
NL-7300 AC Apeldoorn

Annex 2 to EU-type examination certificate

Certificate
192140262/AA/02

Documentation lodged for this EU-type examination certificate

Test Reports:

- Eurofins TA Technology (Shanghai) Co., Ltd.: R1907A0354-E1, 08 July 2019
- Eurofins TA Technology (Shanghai) Co., Ltd.: R1907A0354-L1, 08 July 2019
- Eurofins TA Technology (Shanghai) Co., Ltd.: R1907A0354-M1, 08 July 2019
- Eurofins TA Technology (Shanghai) Co., Ltd.: R1907A0354-R1, 08 July 2019
- Eurofins TA Technology (Shanghai) Co., Ltd.: R2112A1203-E1 , 07 February 2022
- Eurofins TA Technology (Shanghai) Co., Ltd.: R2112A1203-L1, 08 February 2022
- Eurofins TA Technology (Shanghai) Co., Ltd.: R2112A1203-M1, 07 February 2022
- Eurofins TA Technology (Shanghai) Co., Ltd.: R2112A1203-R1 , 07 February 2022
- Eurofins TA Technology (Shanghai) Co., Ltd.: EFTA26060338-IE-01-E1, 30 June 2026

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Manual
- Technical description or data sheets
- Label and label placement
- Test setup photos
- Risk assessment
- Packaging information
- RED declarations

Technical Standards and Specifications

The product is compliant with:

EN 300 328	July, 2019	V2.2.2
EN 301 489-1	November, 2019	V2.2.3
EN 301 489-17	September, 2024	V3.3.1
EN 50665	November, 2017	
EN 55024	November, 2010	
EN 55032:2015+A11:2020	March, 2020	
EN 55035:2017+A11:2020	May, 2020	
EN 60950-1	2006	
EN 60950-1/A1	March, 2010	
EN 60950-1/A11	March, 2009	
EN 60950-1/A12	February, 2011	
EN 60950-1/A2	August, 2013	
EN IEC 62311:2020	January, 2020	
EN IEC 62368-1:2020+A11:2020	March, 2020	

Certificate
192140262/AA/02

Annex 2 to EU-type examination certificate

Technical features and characteristics

The product includes the following features and characteristics:

Bluetooth
- Operating frequency range: 2402-2480 MHz (79 channels)
- Maximum output power: 2.7 dBm EIRP average (calculated)
- Maximum antenna gain: 3.7 dBi

Bluetooth LE
- Operating frequency range: 2402-2480 MHz (40 channels)
- Maximum output power: 2.7 dBm EIRP average (calculated)
- Maximum antenna gain: 3.7 dBi

IEEE 802.11b/g/n (20/40 MHz)
- Operating frequency range: 2412-2472 MHz (13/9 channels)
- Maximum output power: 19.9 dBm EIRP average (calculated)
- Maximum antenna gain: 3.7 dBi

Kiwa Nederland B.V.
Wilmersdorf 50
Postbus 137
NL-7300 AC Apeldoorn

Annex 3 to EU-type examination certificate

Certificate
192140262/AA/02

The product as described in this certificate includes the following type/model designations:

- Product description:	Wi-Fi & Bluetooth Internet of Things Module
- Trademark:	ESPRESSIF
- Type designation:	ESP32-WROOM-32D
- Hardware version:	V2.1
- Software version:	V1.0

- Product description:	Wi-Fi & Bluetooth Internet of Things Module
- Trademark:	ESPRESSIF
- Type designation:	ESP-WROOM-32D
- Hardware version:	V2.1
- Software version:	V1.0

Kiwa Nederland B.V.
Wilmersdorf 50
Postbus 137
NL-7300 AC Apeldoorn

kiwa