

**CERTIFICATE
EU -TYPE EXAMINATION
Module B****No. 221299125****issued in accordance with Annex III to Directive 2014/53/EU**

Applicant: **AJAX SYSTEMS CYPRUS HOLDINGS LTD**
lfigeneias, 17
Strovolos, 2007
Nicosia, Cyprus

Manufacturer: **AJAX SYSTEMS MANUFACTURING LLC**
Sklyarenka, 5
Kyiv, 04073
Ukraine

Product: **Radio signal range extender**
the product specification and the technical documentation identification are listed
in the annex to this certificate

Trade mark: **AJAX**

Model: **Ajax ReX 2**

Hardware version: **HB2.001.MBR.001v4**
HB2.001.PWB.001v4

Software version: **2.12.2**

With this certificate TSÚ Piešťany, š.p. as Notified Body confirms the conformity of the stated type of product with the essential requirements of the following Directive as amended:

2014/53/EU Radio equipment (RED)

Essential Requirement: **Article 3.1(a) Safety**
Article 3.1(a) Health
Article 3.1(b) EMC
Article 3.2 Radio

The technical design of the assessed type has been verified on the technical documentation presented by the manufacturer according to Annex III, Module B of the Directive.

Certificate has been issued on the basis of this document: Conformity assessment report No. 220500137 dated 19.05.2022.



the manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and meets the requirements of all applicable EC/EU Directives

Issue date: 20.05.2022
Expiry date: 19.05.2027
Issue: 1




Ing. Dušan HANKO
on behalf of TSU Piešťany, š.p., NB 1299

148789

Standards used for the conformity assessment

Article of directive 2014/53/EU	Harmonized Standards	Other Standards
3.1(a) Safety	EN 62368-1:2014/AC:2015	EN 62368-1:2014/A11:2017
3.1(a) Health	EN 62311:2008	
3.1(b) EMC		EN 301 489-1 V2.2.3 EN 301 489-3 V2.1.1
3.2 Radio	EN 300 220-2 V3.1.1	EN 300 220-1 V3.1.1

As far as the essential requirements indicated, the Notified Body of TSÚ Piešťany, š.p. confirms, that the technical design of the product meets the essential requirements of the Directive 2014/53/EU Article 3

Remarks:

This certificate EU-type examination does not include the assessment of the manufacturing product and does not use the identification number of the Notified Body TSÚ Piešťany, š.p.

The rules for use of this certificate.

1. Based on Annex III, Module C of Directive 2014/53/EU, the manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate.
2. Validity of this EU-type examination certificate is limited to the versions of the applied standards. If versions of standards change or modifications are made to the product, this certificate will be invalidated.
3. It is forbidden to modify, amend or rewrite the data in the certificate
4. The holder of this certificate must keep the conditions specified in the General Rules for Product Certification, which are freely available at www.tsu.eu



Annex to the certificate EU-type examination

No. 221299152

1/2

Product Radio Specifications

2x Transceiver module	
Manufacturer name:	Shenzhen HOPE Microelectronics Co., Ltd
Product Designation.:	RFM66W-868S2
Product Description:	RF transceiver module capable of operation in 868 MHz license-free ISM band
Details of operation	
Frequency Range	868.0 – 868.6 MHz
Transmit Power:	< 20 dBm (conducted)
Modulation:	GFSK
Antenna Designation:	Built-in, 3 pcs Inverted-F type, gain: -6dBi, 1 pc Planar inverted-L type, gain: -5 dBi

Technical Documentation Identification

The following identified Technical Documentation has been reviewed and has been used to determine if the design of the mentioned radio equipment meets the essential requirements:

- Technical description, user manual, data of used antenna
- Description of design changes made to the product related to HW versions HB2.001.MBR.001v4 and HB2.001.PWB.001v4[RX2-8XX]
- Analysis and assessment of the risks elaborated by the manufacturer
- Test report No.: 14371-21 issued 12.8.2021 by Ukrainian State Centre of Radio Frequencies, Test Centre UKRCHASTOTNAGLIAD, 151, pr. Peremogy, Kyiv, 03179, Ukraine on the product: Radio signal range extender, model. Ajax ReX 2, manufacturer: AJAX SYSTEM MANUFACTURING LLC, Sklyarenka, 5, Kyiv, 04073, Ukraine.
- Test report No.: 14372-21 issued 17.8.2021 by Ukrainian State Centre of Radio Frequencies, Test Centre UKRCHASTOTNAGLIAD, 151, pr. Peremogy, Kyiv, 03179, Ukraine on the product: Radio signal range extender, model. Ajax ReX 2, manufacturer: AJAX SYSTEM MANUFACTURING LLC, Sklyarenka, 5, Kyiv, 04073, Ukraine.
- Test report No.: 14373-21 issued 18.8.2021 by Ukrainian State Centre of Radio Frequencies, Test Centre UKRCHASTOTNAGLIAD, 151, pr. Peremogy, Kyiv, 03179, Ukraine on the product: Radio signal range extender, model. Ajax ReX 2, manufacturer: AJAX SYSTEM MANUFACTURING LLC, Sklyarenka, 5, Kyiv, 04073, Ukraine.
- Test report No.: 14355-21 issued 17.8.2021 by Ukrainian State Centre of Radio Frequencies, Test Centre UKRCHASTOTNAGLIAD, 151, pr. Peremogy, Kyiv, 03179, Ukraine on the product: Radio signal range extender, model. Ajax ReX 2, manufacturer: AJAX SYSTEM MANUFACTURING LLC, Sklyarenka, 5, Kyiv, 04073, Ukraine.
- Test report No.: 14833-22 issued 2.5.2022 by Ukrainian State Centre of Radio Frequencies, Test Centre UKRCHASTOTNAGLIAD, 151, pr. Peremogy, Kyiv, 03179, Ukraine on the product: Radio signal range extender, model. Ajax ReX 2, manufacturer: AJAX SYSTEM MANUFACTURING LLC, Sklyarenka, 5, Kyiv, 04073, Ukraine.
- Test report No.: 14834-22 issued 5.5.2022 by Ukrainian State Centre of Radio Frequencies, Test Centre UKRCHASTOTNAGLIAD, 151, pr. Peremogy, Kyiv, 03179, Ukraine on the product: Radio signal range extender, model. Ajax ReX 2, manufacturer: AJAX SYSTEM MANUFACTURING LLC, Sklyarenka, 5, Kyiv, 04073, Ukraine.



Annex to the certificate EU-type examination

No. 221299152

2/2

User Manual	<input checked="" type="checkbox"/>
Product Label	<input checked="" type="checkbox"/>
Block diagram	<input checked="" type="checkbox"/>
Circuit Diagram	<input checked="" type="checkbox"/>
BOM	<input checked="" type="checkbox"/>
Operational description	<input checked="" type="checkbox"/>
Risk assessment	<input checked="" type="checkbox"/>
Hardware	<input checked="" type="checkbox"/>
Test reports or Certificates	<input checked="" type="checkbox"/>

The scope of evaluation relates to the submitted documents only.



