



**Hunan Ecloud Testing Technology Co., Ltd.**  
CNAS L11138  
A2LA 4895.01

## **VERIFICATION OF CONFORMITY**

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

**No.: C220304101**

This verification is issued for

**Beijing Inhand Networks Technology Co., Ltd.**

Product Name:

**Industrial Cellular Router**

Product Model Numbers:

**Model No.: IR302**

**Additional No.: IR312,IR332,IR352,IR362,IR392,IR301,IR311,IR331,IR351,  
IR361,IR391**



**Approval Holder** **Beijing Inhand Networks Technology Co., Ltd.**  
Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district,  
Beijing

**Product Manufacturer** **Beijing Inhand Networks Technology Co., Ltd.**  
Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district,  
Beijing

**Standards**

The assessment of compliance of the product with the requirements relating to radio equipment was based on the following standards:

Group	Name	Report
Article 3.1(a) Health & Safety	EN IEC 62311:2020	EC2203041RE06
	EN IEC 62368-1:2020+A11:2020	EC2203041S01
Article 3.1(b) Electromagnetic Compatibility	ETSI EN 301 489-1 V2.2.3 (Publication)	EC2203041RE01 EC2203041E01
	ETSI EN 301 489-17 V3.2.4 (Publication)	
	ETSI EN 301 489-52 V1.2.1(Publication)	
	EN 55032:2015+A11:2020	
	EN 55035:2017+A11:2020	
Article 3.2 Effective Use of Spectrum	EN IEC 61000-3-2:2019	EC2203041RE02 EC2203041RE04 EC2203041RE05 EC2203041RE03
	EN 61000-3-3 :2013+A1:2019	
	ETSI EN 300 328 V2.2.2 (harmonised)	
	ETSI EN 301 908-1 V13.1.1(harmonised)	
	ETSI EN 301 908-2 V13.1.1(harmonised)	
	ETSI EN 301 908-13 V13.1.1(harmonised)	
	ETSI EN 301 511 V12.5.1(harmonised)	

And is valid only if the product is manufactured in accordance with the corresponding tested sample. This verification is the result of tests carried out on one sample and does not represent the serial production of this product.

**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

**Emission Information**

Technology	Frequency		RF Power	
	From	To	Max. (mW)	Type
802.11b	2412MHz	2472MHz	71.45	EIRP
802.11g	2412MHz	2472MHz	65.61	EIRP
802.11n20	2412MHz	2472MHz	91.83	EIRP
802.11n40	2422MHz	2462MHz	93.76	EIRP
GSM900	880.2MHz	914.8MHz	203.70	ERP
DCS1800	1710.2MHz	1784.8MHz	149.97	EIRP
WCDMA Band I	882.6MHz	912.4MHz	352.37	EIRP
WCDMA Band VII	1922.6MHz	1977.4MHz	222.84	ERP
LTE Band 1	2112.5 MHz	2167.5 MHz	354.81	EIRP
LTE Band 3	1805.7 MHz	1879.3 MHz	371.54	EIRP
LTE Band 7	2622.5 MHz	2687.5 MHz	380.19	EIRP
LTE Band 8	925.7 MHz	959.3 MHz	226.46	ERP
LTE Band 20	793.5 MHz	818.5MHz	211.35	ERP
LTE Band 28A	759.5 MHz	802.5 MHz	187.50	ERP

## **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.

