

Notified Body  
**TÜV Rheinland**  
**LGA Products GmbH**

Tillystraße 2  
90431 Nürnberg



notified by the  
Bundesnetzagentur für Elektrizität, Gas,  
Telekommunikation, Post und Eisenbahnen  
**under No. 0197**

herewith issues an  
**EU-Type Examination Certificate**

within the meaning of Annex III Module B of the 2014/53/EU Radio Equipment Directive (RED)  
for compliance with the essential requirements of this directive

Registration Number: RT 60143062 0001  
Evaluation Report Nr.: 50295688 001

**Manufacturer:** Shenzhen Ewinlight Technology Co., Ltd  
1001, Block C, Shenyue Century Industrial Center, No. 743  
Zhoushi Road, Hezhou, Hangcheng Street  
Bao'an District  
518126 Shenzhen  
China

**Product:** Radio Equipment  
(EWINDOW2)

**Type Identification:** EWINDOW2-120 EWINDOW2-60  
(EWINLIGHT TECH)

**Essential requirements:** 2014/53/EU (RED)  
Article 3.1a Health  
Article 3.1a Electrical Safety  
Article 3.1b EMC  
Article 3.2 Radio spectrum

The technical design of the assessed type has been verified based on the technical documentation presented by the manufacturer according to Annex III Module B of the Directive. As far as the essential requirements indicated, the Notified Body of TÜV Rheinland LGA Products GmbH confirms, that the technical design of the apparatus meets the essential requirements of the Directive 2014/53/EU Article 3.

This certificate consists of this page and Annex I.

Validity of the certificate is specified in the Annex I.


**Date** 27.09.2019



**Notified Body**

  
**S. Peng**

## Equipment

**Product** : EWINDOW2  
**Trademark** :  EWINDOW2 TECH  
**Identification** : EWINDOW2-120, EWINDOW2-60  
**Product description** : The EUTs are smart window, it supports 433MHz and Bluetooth Low Energy wireless technologies.

## System description

Frequency band(s) of operation : 433.05-434.79 MHz, 2400-2483.5MHz  
Operating frequency : 433.8MHz, 2402-2480MHz  
Channel spacing / bandwidth : 433MHz: 0.048MHz  
Bluetooth: 2MHz  
RF output power : 433MHz: 5.77 dBm (Max. e.r.p.)  
Bluetooth: 3.52dBm (Max. e.i.r.p.)  
Type of modulation : 433MHz: ASK  
Bluetooth: GFSK  
Type of antenna : Internal Antenna  
Mode of operation (simplex / duplex) : Duplex  
Duty cycle (access protocol, if applicable) : Up to 100%

## Documentation

User information and installation instructions ☒  
Block diagram ☒  
Circuit diagram ☒  
Part list ☒  
PCB layout ☒  
Photo documentation ☒  
Versions of firmware/software used ☒  
Statement of compliance with art. 10.2 it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum. ☒  
Risk Analysis ☒

## Conformity Assessment

Applied harmonised standards (Referred to the publication of harmonised standards in the official Journal of the EU at the time of issuance)			
Article	Standard	Test Report No.	Issued by
3.1a Health			
3.1a Safety			
3.1b EMC			
3.2 Radio	EN 300 220-2 V3.1.1 EN 300 328 V2.1.1	50276593 001	TÜV Rheinland (Shenzhen) Co., Ltd.
3.3 Others			

Applied non-harmonised standards			
Article	Standard	Test Report No.	Issued by
3.1a Health	EN 62479:2010; EN 62493:2015 EN 62471:2008	50276593 001; 50283871 001	
3.1a Safety	EN 60598-1:2015+A1:2018 EN 60598-2-2:2012	50283871 001	TÜV Rheinland (Shenzhen) Co., Ltd.
3.1b EMC	EN 55015:2013+A1 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 301 489-1 V2.2.1 (Draft) EN 301 489-3 V2.1.1 EN 301 489-17 V3.2.0 (Draft)	50276593 002	TÜV Rheinland (Shenzhen) Co., Ltd.
3.2 Radio			
3.3 Others			

Other solutions, adopted to meet the essential requirements			
Article	Standard	Test Report No.	Issued by
3.1a Health			
3.1a Safety			
3.1b EMC			
3.2 Radio			
3.3 Others			

#### Rationale for applied non-harmonised standards or other solutions:

- EN 62479 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).
- EN 62493 Assessment of lighting equipment related to human exposure to electromagnetic Field.
- EN 62471 Photobiological safety of lamps and lamp systems.
- EN 60598-1 Luminaires - Part 1: General requirements and tests; EN 60598-2-2 Luminaires - Part 2-2: Particular requirements - Recessed luminaires.
- EN 55015 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment; EN 61547 Equipment for general lighting purposes — EMC immunity requirements; EN 61000-3-2 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase); EN 61000-3-3 Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection.
- EN 301 489-1 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; EN 301 489-3 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU; EN 301 489-17 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU.

#### Remarks:

- This Type Examination Certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.
- This Type Examination Certificate only relates to the assessment of technical documentation to verify that the technical design of radio equipment meets the essential requirements of the RED 2014/53/EU and will not show compliance with essential requirements of other possible applicable EU Directives.
- The manufacturer has declared in compliance with art. 10.2 that the Radio Equipment can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.