

EU Declaration of Conformity

Model Number: ESY1014, ESY1514, ESY2214
Equipment Category: Information Technology and Telecommunications Equipment
Equipment Class: Commercial and Light Industrial
Product Name: Touch All in one Computer
Manufacture Start Year: 2021

We hereby declare under our sole responsibility, that the object of the declaration described above is in conformity with the following EU Directives and harmonized standard(s):

1. **EU Directive 2014/53/EU** of the European Parliament and of the Council of 16 April 2014 on the harmonization of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC Text with EEA relevance.

Applicable harmonized standards:

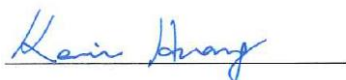
- EN55032:2015+A11:2020 Class A
- EN55035:2017+A11:2020
- EN 61000-3-2:2019
- EN 61000-3-3:2013+A1:2019 – Standard
- IEC 61000-4-2:2008
- IEC 61000-4-3:2006+A1:2007+A2:2010
- IEC 61000-4-4:2012
- IEC 61000-4-5:2014/AMD:2017
- IEC 61000-4-6:2013
- IEC 61000-4-8:2009
- IEC 61000-4-11:2020
- ETSI EN 301 489-1 V2.2.3 (2019-11)
- ETSI EN 301 489-3 V2.1.1 (2019-11)
- ETSI EN 301 489-17 V3.2.4 (2017-02)
- ETSI EN 300 328 V2.2.2 (2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05)
- ETSI EN 300 440 V2.1.1 (2017-03)
- EN 50566:2017
- EN 62209-2:2010+A1:2019
- EN 62479:2020
- EN 62311:2008
- EN 62368-1:2014+A1:2017
- EN IEC 62368-1:2020+A11:2020
- IEC 62368-1:2014
- IEC 62368-1:2018

2. **EU Directive 2011/65/EU** of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Commission Delegated Directive (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances (Text with EEA relevance)

Technical documentation required by the EU Directive 2011/65/EU was drawn based on harmonized standard EN IEC 63000.

3. **EU No 617/2013** of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers Text with EEA relevance



Kevin Huang
Director, Systems Engineering
Elo Touch Solutions, Inc.

UK Declaration of Conformity

Model Number: ESY10I4, ESY15I4, ESY22I4
Equipment Category: Information Technology and Telecommunications Equipment
Equipment Class: Commercial and Light Industrial
Product Name: Touch All in one Computer
Manufacture Start Year: 2021

We hereby declare under our sole responsibility, that the object of the declaration described above is in conformity with the following Product Specifications and UK Regulations:

1. Radio Equipment Regulations 2017
Applicable harmonized standards:

- BS EN55032:2015+A11:2020 Class A
- BS EN55035:2017+A11:2020
- BS EN 61000-3-2:2019
- BS EN 61000-3-3:2013+A1:2019 – Standard
- IEC 61000-4-2:2008
- IEC 61000-4-3:2006+A1:2007+A2:2010
- IEC 61000-4-4:2012
- IEC 61000-4-5:2014/AMD:2017
- IEC 61000-4-6:2013
- IEC 61000-4-8:2009
- IEC 61000-4-11:2020
- ETSI EN 301 489-1 V2.2.3 (2019-11)
- ETSI EN 301 489-3 V2.1.1 (2019-11)
- ETSI EN 301 489-17 V3.2.4 (2017-02)
- ETSI EN 300 328 V2.2.2 (2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05)
- ETSI EN 300 440 V2.1.1 (2017-03)
- BS EN 50566:2017
- BS EN 62209-2:2010+A1:2019
- BS EN 62479:2020
- BS EN 62311:2008
- BS EN 62368-1:2014+A1:2017
- EN IEC 62368-1:2020+A11:2020
- IEC 62368-1:2018
- IEC 62368-1:2014

2. The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Technical documentation required based on harmonized standard BS EN IEC 63000.



Kevin Huang
Director, Systems Engineering
Elo Touch Solutions, Inc.



28 June 2021

FCC Declaration of Conformity

Per FCC 47 CFR FCC Part15 subpart B Section 2.1077(a)
In accordance with FCC Rules and Regulations

Model Number: ESY10I4, ESY15I4, ESY22I4
Equipment Category: Information Technology and Telecommunications Equipment
Equipment Class: Commercial and Light Industrial
Product Name: Touch All in one Computer
Manufacturer: Elo Touch Solutions, Inc.
670 N. McCarthy Blvd.
Suite 100
Milpitas, CA 95035
www.elotouch.com

Trademark:



Declaration:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation

Kevin Huang
Director, Systems Engineering
Elo Touch Solutions, Inc.

TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**

TCB

**Certification
Issued Under the Authority of the
Federal Communications Commission
By:**

**ACB, Inc.
6731 Whittier Avenue Suite C110
McLean, VA 22101**

**Date of Grant: 06/09/2021
Application Dated: 06/08/2021**

**Elo Touch Solutions, Inc.
670 N. McCarthy Blvd.
Suite 100
Milpitas, CA 95035**

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

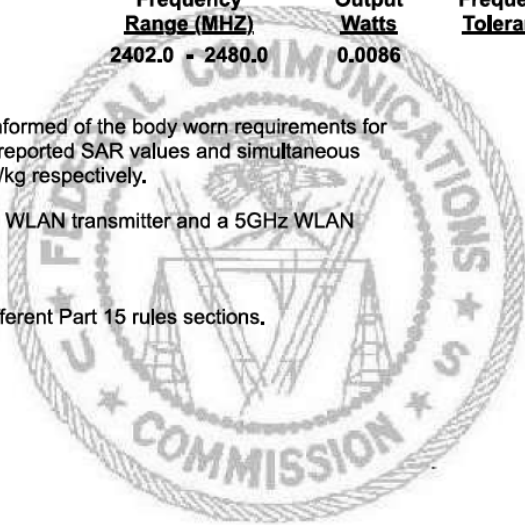
FCC IDENTIFIER: RBWESY14
Name of Grantee: Elo Touch Solutions, Inc.
Equipment Class: Part 15 Spread Spectrum Transmitter
Notes: Touch All In One Computer

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
CC	15C	2402.0 - 2480.0	0.0086		

Power Output is conducted. End users must be informed of the body worn requirements for satisfying RF Exposure compliance. The highest reported SAR values and simultaneous transmission conditions are 0.19W/kg and 1.56W/kg respectively.

This device contains a BLE transmitter, a 2.4GHz WLAN transmitter and a 5GHz WLAN transmitter.

CC: This device is certified pursuant to two different Part 15 rules sections.



TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**

TCB

**Certification
Issued Under the Authority of the
Federal Communications Commission
By:**

**ACB, Inc.
6731 Whittier Avenue Suite C110
McLean, VA 22101**

**Date of Grant: 06/09/2021
Application Dated: 06/08/2021**

**Elo Touch Solutions, Inc.
670 N. McCarthy Blvd.
Suite 100
Milpitas, CA 95035**

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: RBWESY14
Name of Grantee: Elo Touch Solutions, Inc.
Equipment Class: Digital Transmission System
Notes: Touch All In One Computer

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
CC	15C	2402.0 - 2480.0	0.0063		
CC MO	15C	2412.0 - 2462.0	0.0388		

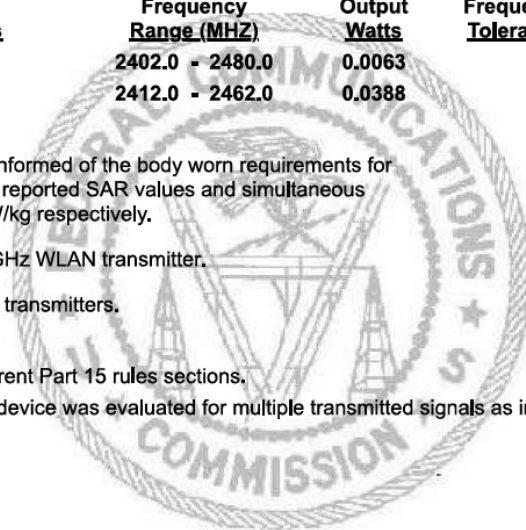
Power Output is conducted. End users must be informed of the body worn requirements for satisfying RF Exposure compliance. The highest reported SAR values and simultaneous transmission conditions are 0.95W/kg and 1.56W/kg respectively.

This device has 20 MHz bandwidth mode in 2.4GHz WLAN transmitter.

This device contains 5GHz WLAN and Bluetooth transmitters.

CC: This device is certified pursuant to two different Part 15 rules sections.

MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in the filing.



TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification Issued Under the Authority of the Federal Communications Commission By:

ACB, Inc. 6731 Whittier Avenue Suite C110 McLean, VA 22101

Date of Grant: 06/09/2021 Application Dated: 06/08/2021

Elo Touch Solutions, Inc. 670 N. McCarthy Blvd. Suite 100 Milpitas, CA 95035

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: RBWESYI4 Name of Grantee: Elo Touch Solutions, Inc. Equipment Class: Unlicensed National Information Infrastructure TX Notes: Touch All In One Computer

Table with 5 columns: Grant Notes, FCC Rule Parts, Frequency Range (MHZ), Output Watts, Frequency Tolerance, Emission Designator. Rows include CC MO, CC MO ND, and CC MO.

Power Output is conducted. End users must be informed of the body worn requirements for satisfying RF Exposure compliance. The highest reported SAR values and simultaneous transmission conditions are 1.39W/kg and 1.56W/kg respectively.

This device has 20 MHz, 40 MHz and 80 MHz bandwidth modes in 5GHz WLAN transmitter.

This device contains 2.4GHz WLAN, Bluetooth and BLE transmitters.

- CC: This device is certified pursuant to two different Part 15 rules sections. MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in the filing. ND: This UNII device complies with the Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS) requirements in Section 15.407(h).



**TECHNICAL ACCEPTANCE
CERTIFICATE**

**CERTIFICAT D'ACCEPTABILITÉ
TECHNIQUE**

CERTIFICATION No. ► **10757B-ESY14 (New Family Certification)**
NUMÉRO DE CERTIFICATION

ISSUED TO ► **Elo Touch Solutions, Inc.**
DÉLIVRÉ A ► **670 N. McCarthy Blvd. Suite 100 Milpitas
California United States 95035**

TYPE OF EQUIPMENT ► **Spread Spectrum/Digital Device (2400-2483.5 MHz), Bluetooth Device,**
TYPE DE MATÉRIEL ► **Spread Spectrum/Digital Device (5725-5850 MHz), Wi-Fi Device**

PRODUCT MARKETING NAME (PMN): ► **Touch All In One Computer**
NOM DU PRODUIT MARKETING

HARDWARE VERSION IDENTIFICATION NUMBER (HVIN): ► **ESY1014, ESY1514, ESY2214**
MATÉRIEL NUMÉRO D'IDENTIFICATION DE VERSION

FIRMWARE VERSION IDENTIFICATION NUMBER (FVIN): ► **<Not Specified>**
FIRMWARE NUMÉRO D'IDENTIFICATION DE VERSION

FREQUENCY RANGE ► **** See Annex 1 for Complete Detail ****
BANDE DE FRÉQUENCES

EMISSION DESIGNATION, R.F. POWER RATING, AND ANTENNA ► **** See Annex 1 for Complete Detail ****
DESIGNATION D'ÉMISSION, PUISSANCE NOMINALE H.F., ET L'ANTENNE

CERTIFIED TO : SPECIFICATION / ISSUE ► **RSS-247 Issue 2**
CERTIFIÉ SELON LE : CAHIER DES CHARGES / ÉDITION

TEST LABORATORY ► **DEKRA Testing and Certification Co. Ltd.** COMPANY NUMBER ► **4075B**
LABORATOIRE D'ESSAI ► **No. 99 Hongye Rd., Suzhou Ind. Park** NUMÉRO DE COMPAGNIE
Jiangsu Province
China 215006
Contact: Derek Feng
email: derek.feng@dekra.com

Certification of equipment means only that the equipment has met the requirements of the above noted specification. License applications, where applicable to use certified equipment, are acted on accordingly by the ISED issuing office and will depend on the existing radio environment, service and location of operation.

This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the radio standards specifications and procedures issued by ISED. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale, or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISED.

I hereby attest that the subject equipment was tested and found in compliance with the above-noted specification.

ORIGINAL DATE OF ISSUE: June 9, 2021
REVISED DATE OF ISSUE: N/A

La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance d'ISDE et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation.

Le présent certificat est délivré à condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'ISDE. Le matériel à l'égard duquel le présent certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins d'être conforme aux procédures et aux spécifications techniques applicables publiées par ISDE.

J'atteste, par la présente, que le matériel a fait l'objet d'essai et a été jugé conforme à la spécification ci-dessus.

**Michael F. Violette
Director**



Ref. Certif. No.

DK-113631-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	All in one Computer / POS
Name and address of the applicant	ELO TOUCH SOLUTIONS, INC. 670 N. McCarthy Blvd., Suite 100 Milpitas, CA 95035 USA
Name and address of the manufacturer	ELO TOUCH SOLUTIONS, INC. 670 N. McCarthy Blvd., Suite 100 Milpitas, CA 95035 USA
Name and address of the factory	ELO TOUCH SOLUTIONS, INC. 2245 BRIGHTON-HENRIETTA TOWN LINE RD, ROCHESTER, NY 14623 UNITED STATES
Note: When more than one factory, please report on page 2	<input checked="" type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	19Vdc, 3A or 19Vdc, 4.5A (For Adapter input) 48-54Vdc, 0.6A (For PoE input) (See test report for detail)
Trademark (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	ESY1014, ESY1514, ESY2214
Additional information (if necessary may also be reported on page 2)	<input checked="" type="checkbox"/> Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
As shown in the Test Report Ref. No. which forms part of this Certificate	21020158-TSCB01 issued on 2021-05-11

This CB Test Certificate is issued by the National Certification Body



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2021-05-19

Signature: Jan-Erik Storgaard



Ref. Certif. No.

DK-113631-UL

Additionally evaluated to:

EN 62368-1:2014/A11:2017, EN 62368-1:2014
National Difference specified in the CB Test Report.

Additional information (if necessary)



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/names

Date: 2021-05-19

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-129564-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

All in one Computer / POS

Name and address of the applicant

Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100 Milpitas, CA 95035 USA

Name and address of the manufacturer

ELO TOUCH SOLUTIONS, INC.
670 N. McCarthy Blvd., Suite 100, Milpitas, CA 95035, USA.

Name and address of the factory

ELO TOUCH SOLUTIONS, INC.
2245 BRIGHTON-HENRIETTA TOWN LINE RD, ROCHESTER, NY 14623
UNITED STATES

Note: When more than one factory, please report on page 2

Additional Information on page 2

Ratings and principal characteristics

I/P:
19Vdc, 3A or 19Vdc, 4.5A (For Adapter input)
48-54Vdc, 0.6A (For PoE input)
(See test report for detail)

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

ESY10I4, ESY15I4, ESY22I4

Additional information (if necessary may also be reported on page 2)

Additionally evaluated to:
EN IEC 62368-1:2020, EN IEC 62368-1:2020/A11:2020
National Differences specified in the CB Test Report.

Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 62368-1:2018

As shown in the Test Report Ref. No. which forms part of this Certificate

21110224-TSCB01 issued on 2022-07-05

This CB Test Certificate is issued by the National Certification Body



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2022-07-06

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-129564-UL

Factory(ies):

[Redacted factory information]

Additional information (if necessary)



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/nbcnames

Date: 2022-07-06

Signature: *Jan Erik Storgaard*

Jan-Erik Storgaard

CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2122304-0
Report Reference E162681-20210523
Date 29-May-2021

Issued to: Elo Touch Solutions Taiwan Ltd
Rm C 5th Fl 3 Yuandong Rd
Banqiao District New Taipei
Taiwan 220

**This is to certify that
representative samples of**

AZOT7 - Audio/Video, Information and Communication
Technology Equipment Certified for Canada

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: CSA C22.2 NO. 62368-1-14, 2nd Ed., Issue Date: 2014-12-01

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2122304-0
Report Reference E162681-20210523
Date 29-May-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
ESY1014	All in one Computer / POS
ESY1514	All in one Computer / POS
ESY2214	All in one Computer / POS



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2127163-0
Report Reference E162681-20210523
Date 29-May-2021

Issued to: Elo Touch Solutions Taiwan Ltd
Rm C 5th Fl 3 Yuandong Rd
Banqiao District New Taipei
Taiwan 220

This is to certify that representative samples of AZOT - Audio/Video, Information and Communication Technology Equipment
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 62368-1, 2nd Ed., Issue Date: 2014-12-01

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2127163-0
Report Reference E162681-20210523
Date 29-May-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
ESY1014	All in one Computer / POS
ESY1514	All in one Computer / POS
ESY2214	All in one Computer / POS



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



Certificate

of
Radio Equipment in JAPAN

No: 201-210342 / 00

Telefication, operating as Conformity Assessment Body (CAB ID Number: 201) with respect to Japan, declares that the listed product complies with the Technical Regulations Conformity Certification of Specified Radio equipment (ordinance of MPT N° 37,1981)

Product description: **Touch All In One Computer**
Trademark: **Elo**
Type designation: **ESY1014**
Variants: **See Annex 3**

Manufacturer: **Elo Touch Solutions, Inc.**
Address: **670 N. McCarthy Blvd. Suite 100 Milpitas California United States**
City: **95035 Milpitas**
Country: **United States**

This certificate is granted to:

Name: **Elo Touch Solutions, Inc.**
Address: **670 N. McCarthy Blvd. Suite 100 Milpitas California United States**
City: **95035 Milpitas**
Country: **United States**

This certificate has THREE Annexes.

Apeldoorn, 28 May 2021

CAB



David Chen
Product Assessor





- The validity of this Certificate is limited to products, which are equal to the one examined in the type-examination
- When the manufacturer (or holder of this certificate) is placing the product on the Japanese market, the product must be affixed with the following Specified Radio Equipment marking:



R 201-210342

Remarks and observations

The following conditions are applicable:

Antennas for IEEE 802.11a/b/g/n/ac & Bluetooth:

PIFA antenna, max gain of 2.9 dBi at 2.4 GHz and max gain of 2.91 dBi at 5 GHz

Documentation lodged for this type-examination

Test Reports:

- DEKRA Testing and Certification (Suzhou) Co., Ltd. : 2140224R-RF-JP-P01V03, 25 May 2021
- DEKRA Testing and Certification (Suzhou) Co., Ltd. : 2140224R-RF-JP-P03V01, 25 May 2021
- DEKRA Testing and Certification (Suzhou) Co., Ltd. : 2140224R-RF-JP-P01V01, 25 May 2021
- DEKRA Testing and Certification (Suzhou) Co., Ltd. : 2140224R-RF-JP-P01V02, 25 May 2021

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Antenna specifications
- Internal photos
- External photos
- Manual
- Production quality
- Test setup photos

Technical Standards and Specifications

The product shows no non-compliances with:

- Equipment Radio Regulations: 2008 (including amendments)

Chapter I, General Provisions
Chapter II, Transmitting equipment
Chapter III, Receiving Equipment
Chapter IV, section 4.17 article 49.20

Radio equipment specified in:
Item 19, Paragraph 1, Article 2
Item 19-3, Paragraph 1, Article 2

Technical features and characteristics

The product includes the following features and characteristics:

Bluetooth (incl. AFH)

- Operating frequency range: 2402-2480 MHz (79 channels)
- ITU designation: 78M1 F1D,G1D
- Maximum output power: 0.5 mW/MHz rated

Bluetooth LE_1M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: 1M37 F1D
- Maximum output power: 5 mW rated

Bluetooth LE_2M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: 2M30 F1D
- Maximum output power: 5 mW rated

IEEE 802.11b

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 10M4 G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 16M8 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 17M8 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 16M8 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11n 20 MHz

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 17M9 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11n 40 MHz

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: 36M0 D1D,G1D
- Maximum output power: 0.5 mW/MHz rated

IEEE 802.11ac (VHT20)

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 17M9 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11ac (VHT40)

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: 36M0 D1D,G1D
- Maximum output power: 0.5 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5210-5210 MHz
- ITU designation: 75M3 D1D,G1D
- Maximum output power: 0.2 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 16M7 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11n 20 MHz

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 17M8 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11n 40 MHz

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: 36M1 D1D,G1D
- Maximum output power: 0.5 mW/MHz rated

IEEE 802.11ac (VHT20)

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 17M8 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11ac (VHT40)

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: 36M1 D1D,G1D
- Maximum output power: 0.5 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5290-5290 MHz
- ITU designation: 75M3 D1D,G1D
- Maximum output power: 0.2 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 17M0 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11n 20 MHz

- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11n 40 MHz

- Operating frequency range: 5510-5670 MHz (5 channels)
- ITU designation: 36M2 D1D,G1D
- Maximum output power: 0.5 mW/MHz rated

IEEE 802.11ac (VHT20)

- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 3 mW/MHz rated

IEEE 802.11ac (VHT40)

- Operating frequency range: 5510-5670 MHz (5 channels)
- ITU designation: 36M2 D1D,G1D
- Maximum output power: 0.5 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5530-5610 MHz (2 channels)
- ITU designation: 75M8 D1D,G1D
- Maximum output power: 0.2 mW/MHz rated

Telefication, Wilmersdorf 50, 7327 AC Apeldoorn, The Netherlands
Tel: +31 88 998 3600

The product as described in this Certificate includes the following type designations:

- Product description: Touch All In One Computer
- Trademark: Elo
- Type designation: ESY1014

- Product description: Touch All In One Computer
- Trademark: Elo
- Type designation: ESY1514

- Product description: Touch All In One Computer
- Trademark: Elo
- Type designation: ESY2214

Telefication, Wilmersdorf 50, 7327 AC Apeldoorn, The Netherlands
Tel: +31 88 998 3600

Masahiro Tsumura

差出人: aplimgr@vcci.jp
送信日時: 2021年6月24日木曜日 15:37
宛先: Masahiro Tsumura
件名: [VCCI適合確認電子届出]受理証明書

適合確認届出

適合確認届出を受理しました。

届出番号:2021090273
受理番号:2021063350

<届出者情報>

<会員情報>

会員番号:797

会社名:タッチパネル・システムズ株式会社

所在地:神奈川県横浜市港北区新横浜 1-19-20 SUN HAMADA BLDG2F

<届出責任者>

部署名:製品企画部

氏名:津村 昌弘

E-mail:masahiro.tsumura@elotouch.com

<届出担当者>

所在地:横浜市港北区新横浜 1-19-20SUN HAMADA BLDG.2F

部署名:製品企画部

氏名:津村

TEL:045-478-2161

FAX:045-478-2180

E-mail:masahiro.tsumura@elotouch.com

<受理通知受信者>

部署名:製品企画部

E-mail:masahiro.tsumura@elotouch.com

適用規程:VCCI 32-1

届出種別:新規

一般的な機器の名称:オールインワンタッチ PC
機器の種別と分類記号:クラス A / 分類記号 B2
型式(モデル No.):Elo Tuch Solutions
ESY10I4
<販売ブランド(1)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(2)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(3)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(4)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(5)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
試験機関の会員番号:1153 DEKRA Testing and Certification Co., Ltd.
試験機関の名称:

<試験設備等登録番号>

1. 1GHz 以下放射妨害波測定:R-12341 (10m)
2. 1GHz 超放射妨害波測定:G-10041 (3m)
3. 電源ポート伝導妨害波測定:C-12553
4. 有線通信ポート等の伝導妨害波測定:T-11531
5. 第 15 条による試験所:
6. 設置場所で試験をした:

試験実施日:2021-05-11 2021-06-16

試験報告書番号:2150303R-IT-JP-P01-V01

変更/追加理由:

VCCI コメント:

一般財団法人 VCCI 協会

URL :

<https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.vcci.jp%2F&data=04%7C01%7Cmasahiro.tsumura%40elotouch.com%7Ce274e5d81b31468dfa6f08d936da7f4a%7C5a057f852a504ea9b91e4e8ec4b2e549%7C1%7C0%7C637601134335761689%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&data=qBufk6lQlqi%2BQ0lYl6tGFnpZZz8asan7KE4OYXpc%3D&reserved=0>

E-mail : aplimg@vcci.jp

Masahiro Tsumura

差出人: aplimgr@vcci.jp
送信日時: 2021年6月9日水曜日 14:19
宛先: Masahiro Tsumura
件名: [VCCI適合確認電子届出]受理証明書

適合確認届出

適合確認届出を受理しました。

届出番号:2021089959
受理番号:2021063123

<届出者情報>

<会員情報>

会員番号:797

会社名:タッチパネル・システムズ株式会社

所在地:神奈川県横浜市港北区新横浜 1-19-20 SUN HAMADA BLDG2F

<届出責任者>

部署名:製品企画部

氏名:津村 昌弘

E-mail:masahiro.tsumura@elotouch.com

<届出担当者>

所在地:横浜市港北区新横浜 1-19-20SUN HAMADA BLDG.2F

部署名:製品企画部

氏名:津村

TEL:045-478-2161

FAX:045-478-2180

E-mail:masahiro.tsumura@elotouch.com

<受理通知受信者>

部署名:製品企画部

E-mail:masahiro.tsumura@elotouch.com

適用規程:VCCI 32-1

届出種別:新規

一般的な機器の名称:オールインワンタッチ PC
機器の種別と分類記号:クラス A / 分類記号 B2
型式(モデル No.):Elo Touch Solutions
ESY15I4
<販売ブランド(1)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(2)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(3)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(4)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(5)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
試験機関の会員番号:1153 DEKRA Testing and Certification Co., Ltd.
試験機関の名称:

<試験設備等登録番号>

1. 1GHz 以下放射妨害波測定:R-12341 (10m)
2. 1GHz 超放射妨害波測定:G-10041 (3m)
3. 電源ポート伝導妨害波測定:C-12553
4. 有線通信ポート等の伝導妨害波測定:T-11531
5. 第 15 条による試験所:
6. 設置場所で試験をした:
試験実施日:2021-04-10 2021-05-08
試験報告書番号:2140224R-IT-JP-P01-V01
変更/追加理由:

VCCI コメント:

一般財団法人 VCCI 協会

URL :

<https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.vcci.jp%2F&data=04%7C01%7Cmasahiro.tsumura%40elotouch.com%7Cf27d8a8f7bb64739f60508d92b061619%7C5a057f852a504ea9b91e4e8ec4b2e549%7C1%7C0%7C637588127416411012%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=1QETfgRRImh%2BFevyiu%2BU86FP4I%2BoBOqb1L3R%2B7qlao8%3D&reserved=0>

E-mail : aplimg@vcci.jp

Masahiro Tsumura

差出人: aplimgr@vcci.jp
送信日時: 2021年6月24日木曜日 15:38
宛先: Masahiro Tsumura
件名: [VCCI適合確認電子届出]受理証明書

適合確認届出

適合確認届出を受理しました。

届出番号:2021090274
受理番号:2021063351

<届出者情報>

<会員情報>

会員番号:797

会社名:タッチパネル・システムズ株式会社

所在地:神奈川県横浜市港北区新横浜 1-19-20 SUN HAMADA BLDG2F

<届出責任者>

部署名:製品企画部

氏名:津村 昌弘

E-mail:masahiro.tsumura@elotouch.com

<届出担当者>

所在地:横浜市港北区新横浜 1-19-20SUN HAMADA BLDG.2F

部署名:製品企画部

氏名:津村

TEL:045-478-2161

FAX:045-478-2180

E-mail:masahiro.tsumura@elotouch.com

<受理通知受信者>

部署名:製品企画部

E-mail:masahiro.tsumura@elotouch.com

適用規程:VCCI 32-1

届出種別:新規

一般的な機器の名称:オールインワンタッチ PC
機器の種別と分類記号:クラス A / 分類記号 B2
型式(モデル No.):Elo Touch Solutions
ESY22I4
<販売ブランド(1)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(2)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(3)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(4)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
<販売ブランド(5)>

販売ブランド業者名:
会員番号:
販売ブランド業者の型式:
試験機関の会員番号:1153 DEKRA Testing and Certification Co., Ltd.
試験機関の名称:

<試験設備等登録番号>

1. 1GHz 以下放射妨害波測定:R-12341 (10m)
 2. 1GHz 超放射妨害波測定:G-10041 (3m)
 3. 電源ポート伝導妨害波測定:C-12553
 4. 有線通信ポート等の伝導妨害波測定:T-11531
 5. 第 15 条による試験所:
 6. 設置場所で試験をした:
- 試験実施日:2021-05-11 2021-06-16
試験報告書番号:2150304R-IT-JP-P01V01
変更/追加理由:

VCCI コメント:

一般財団法人 VCCI 協会

URL :

<https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.vcci.jp%2F&data=04%7C01%7Cmasahiro.tsumura%40elotouch.com%7C1850a58c98ea49873b6108d936da8dd9%7C5a057f852a504ea9b91e4e8ec4b2e549%7C1%7C0%7C637601134596606623%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=LSmi3j1x51ck%2BvUtmvOQS%2BICVjkZIOqv1%2BXkEpm9jus%3D&reserved=0>

E-mail : aplimg@vcci.jp



中国国家强制性产品认证证书

证书编号: 2021010901399635

发证日期: 2021年06月25日

有效期至: 2026年04月28日

**认证委托人名称
及注册地址** Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100 Milpitas, CA 95035, 美国

**产品生产者名称
及注册地址** Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100 Milpitas, CA 95035, 美国

**生产企业名称
及生产地址**

**产品名称和系列、
规格、型号** 触摸一体机
ESY10I4 : DC19V, 3A(电源适配器 : ADP-65JH HB , BA070-190342MAX ,
BA070-190342MBX,BA070-190342NXC , BA090-19047MAX , BA090-19047MBX)

**产品标准和
技术要求** GB 17625.1-2012;GB 4943.1-2011;GB/T 9254-2008(A级)

上述产品符合 CNCA-C09-01:2014 认证规则的要求, 特发此证。
证书有效期内本证书的有效性依据发证机构的定期监督获得保持。
经中国合格评定国家认可委员会认可 CNAS C001-P

可通过扫描下方二维码或登录国家认监委网站(www.cnca.gov.cn) 查验证书信息



签发: 陆楠

中国质量认证中心



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2021010901399635

Valid from: Jun.25,2021

Valid until: Apr.28,2026

NAME AND REGISTERED ADDRESS OF THE APPLICANT Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100, Milpitas, CA95035, United States

NAME AND REGISTERED ADDRESS OF THE MANUFACTURER Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100, Milpitas, CA95035, United States

NAME AND LOCATION OF THE FACTORY 

PRODUCT MODEL(S) Touch All in One Computer
ESY1014 : DC19V, 3A(电源适配器 : ADP-65JH HB , BA070-190342MAX , BA070-190342MBX,BA070-190342NXC , BA090-19047MAX , BA090-19047MBX)

STANDARDS AND TECHNICAL REQUIREMENTS GB 17625.1-2012;GB 4943.1-2011;GB/T 9254-2008(Class A)

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO. CNCA-C09-01:2014)

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Accredited by China National Accreditation Service for Conformity Assessment CNAS C001-P

The certificate information is available through the QR code below or CNCA' s website: www.cnca.gov.cn



SIGNATURE: 

CHINA QUALITY CERTIFICATION CENTRE



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

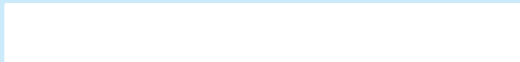
CERTIFICATE NO.: 2021010901399634

Valid from: Jun.25,2021

Valid until: Apr.28,2026

NAME AND REGISTERED ADDRESS OF THE APPLICANT Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100, Milpitas, CA95035, United States

NAME AND REGISTERED ADDRESS OF THE MANUFACTURER Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100, Milpitas, CA95035, United States

NAME AND LOCATION OF THE FACTORY 

PRODUCT MODEL(S) Touch All in One Computer
ESY15I4 ; DC19V, 3A(电源适配器 : ADP-65JH HB , BA070-190342MAX , BA070-190342MBX,BA070-190342NXC , BA090-19047MAX , BA090-19047MBX)

STANDARDS AND TECHNICAL REQUIREMENTS GB 17625.1-2012;GB 4943.1-2011;GB/T 9254-2008 (Class A)

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO. CNCA-C09-01:2014)

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Accredited by China National Accreditation Service for Conformity Assessment CNAS C001-P

The certificate information is available through the QR code below or CNCA' s website: www.cnca.gov.cn



SIGNATURE: 

CHINA QUALITY CERTIFICATION CENTRE



中国国家强制性产品认证证书

证书编号: 2021010901399633

发证日期: 2021年06月25日

有效期至: 2026年04月28日

**认证委托人名称
及注册地址** Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100 Milpitas, CA 95035, 美国

**产品生产者名称
及注册地址** Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100 Milpitas, CA 95035, 美国

**生产企业名称
及生产地址**

**产品名称和系列、
规格、型号** 触摸一体机
ESY22I4: DC19V, 3A(电源适配器: ADP-65JH HB, BA070-190342MAX,
BA070-190342MBX, BA070-190342NXC, BA090-19047MAX, BA090-19047MBX) (电线组件
可选)

**产品标准和
技术要求** GB 17625.1-2012; GB 4943.1-2011; GB/T 9254-2008(A级)

上述产品符合 CNCA-C09-01:2014 认证规则的要求, 特发此证。
证书有效期内本证书的有效性依据发证机构的定期监督获得保持。
经中国合格评定国家认可委员会认可 CNAS C001-P

可通过扫描下方二维码或登录国家认监委网站 (www.cnca.gov.cn) 查验证书信息



签发: 陆楠

中国质量认证中心

<http://www.cqc.com.cn>

中国·北京·南四环西路188号9区 100070

电话: +86 10 83886666



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2021010901399633

Valid from: Jun.25,2021

Valid until: Apr.28,2026

NAME AND REGISTERED ADDRESS OF THE APPLICANT Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100, Milpitas, CA95035, United States

NAME AND REGISTERED ADDRESS OF THE MANUFACTURER Elo Touch Solutions, Inc.
670 N. McCarthy Blvd., Suite 100, Milpitas, CA95035, United States

NAME AND LOCATION OF THE FACTORY 

PRODUCT MODEL(S) Touch All in One Computer
ESY2214 : DC19V, 3A(电源适配器 : ADP-65JH HB , BA070-190342MAX , BA070-190342MBX,BA070-190342NXC , BA090-19047MAX , BA090-19047MBX) (电线组件可选)

STANDARDS AND TECHNICAL REQUIREMENTS GB 17625.1-2012;GB 4943.1-2011;GB/T 9254-2008(Class A)

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO. CNCA-C09-01:2014)

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Accredited by China National Accreditation Service for Conformity Assessment CNAS C001-P

The certificate information is available through the QR code below or CNCA' s website: www.cnca.gov.cn



SIGNATURE: 

CHINA QUALITY CERTIFICATION CENTRE

Client ID : 85764

WIDEMINDS PTE. LTD.
20 MAXWELL ROAD #09-17
MAXWELL HOUSE
SINGAPORE 069113

ATTN : CHANG YA LAN

Dear Sirs,

**EQUIPMENT REGISTRATION UNDER TELECOMMUNICATIONS (DEALERS)
REGULATIONS**

Registration Number: N4011-21

We acknowledge that the equipment listed below has been registered with the Info-communications Media Development Authority under regulation 20(6) of the Telecommunications (Dealers) Regulations (Cap 323, Rg 6) (the "Dealers Regulations") and approved for sale in Singapore. Your attention is drawn to the relevant provisions and requirements of the Dealers Regulations described below.

Declared Equipment Information

Brand/Trade Name : Elo
Model Name/No. : ESY10I4
Equipment Description : Touch All In One Computer With Wifi abgn,ac +BT
IMDA Spec. No. : IMDA TS SRD
Equipment Category : Private Mobile Radio
Equipment Type : Wireless LAN
Frequency Band : 2.4000 - 2.4835 GHz (<= 100 mW (e.i.r.p.))
(Maximum Radiated : 2.4000 - 2.4835 GHz (<= 200 mW (e.i.r.p.))
Power /Field Strength) : 5.150 - 5.350 GHz (> 100 mW (e.i.r.p.) <= 200 mW (e.i.r.p.))
5.470 - 5.725 GHz (<= 1000 mW (e.i.r.p.))
5.725 - 5.850 GHz (<= 1000 mW (e.i.r.p.))
Date of Registration : 10 August 2021
Date of Expiry : 31 July 2026

This is a computer generated email notification. No signature is required.

Note: Should you need clarification, please email to TLSINFO@IMDA.GOV.SG .

Sent by:  **INFOCOMM
MEDIA
DEVELOPMENT
AUTHORITY** Info-communications Media Development Authority

Information on Equipment Registration for Complex/Multi-Line Equipment or Short Range/Low Power Devices

1. IMDA may require the equipment supplier to submit test results or evidence of equipment certification as proof of conformity with the applicable IMDA Technical Specification(s)[Regulation 20(5) of the Dealers Regulations]
2. Equipment registration under regulation 20(6) shall be valid for a period of 5 years. [Regulation 20(6) of the Dealers Regulations]
3. The registration may be renewed for periods not exceeding 5 years upon an application being made to IMDA. [Regulation 20(7) and 20(7A) of the Dealers Regulations]
4. Any modification to the registered equipment may require a re-submission. [Regulation 20(8) of the Dealers Regulations]
5. No false or misleading information shall be furnished to IMDA for the purpose of obtaining any equipment registration or renewal of registration. [Regulation 21(1) of the Dealers Regulations]
6. Any registration or renewal of registration granted as a result of submission of false or misleading information shall be null and void. [Regulation 21(2) of the Dealers Regulations]
7. Any person who contravenes regulation 21(1) and submits false or misleading information shall be guilty of an offence. [Regulation 24 of the Dealers Regulations]

Client ID : 85764

WIDEMINDS PTE. LTD.
20 MAXWELL ROAD #09-17
MAXWELL HOUSE
SINGAPORE 069113

ATTN : CHANG YA LAN

Dear Sirs,

**EQUIPMENT REGISTRATION UNDER TELECOMMUNICATIONS (DEALERS)
REGULATIONS**

Registration Number: N4012-21

We acknowledge that the equipment listed below has been registered with the Info-communications Media Development Authority under regulation 20(6) of the Telecommunications (Dealers) Regulations (Cap 323, Rg 6) (the "Dealers Regulations") and approved for sale in Singapore. Your attention is drawn to the relevant provisions and requirements of the Dealers Regulations described below.

Declared Equipment Information

Brand/Trade Name :	Elo
Model Name/No. :	ESY15I4
Equipment Description :	Touch All In One Computer With Wifi abgn,ac +BT
IMDA Spec. No. :	IMDA TS SRD
Equipment Category :	Private Mobile Radio
Equipment Type :	Wireless LAN
Frequency Band	2.4000 - 2.4835 GHz (<= 100 mW (e.i.r.p.))
(Maximum Radiated	2.4000 - 2.4835 GHz (<= 200 mW (e.i.r.p.))
Power /Field Strength) :	5.150 - 5.350 GHz (> 100 mW (e.i.r.p.) <= 200 mW (e.i.r.p.))
	5.470 - 5.725 GHz (<= 1000 mW (e.i.r.p.))
	5.725 - 5.850 GHz (<= 1000 mW (e.i.r.p.))
Date of Registration :	10 August 2021
Date of Expiry :	31 July 2026

This is a computer generated email notification. No signature is required.

Note: Should you need clarification, please email to TLSINFO@IMDA.GOV.SG .

Sent by:  **INFOCOMM
MEDIA
DEVELOPMENT
AUTHORITY**
Info-communications Media Development Authority

Information on Equipment Registration for Complex/Multi-Line Equipment or Short Range/Low Power Devices

1. IMDA may require the equipment supplier to submit test results or evidence of equipment certification as proof of conformity with the applicable IMDA Technical Specification(s)[Regulation 20(5) of the Dealers Regulations]
2. Equipment registration under regulation 20(6) shall be valid for a period of 5 years. [Regulation 20(6) of the Dealers Regulations]
3. The registration may be renewed for periods not exceeding 5 years upon an application being made to IMDA. [Regulation 20(7) and 20(7A) of the Dealers Regulations]
4. Any modification to the registered equipment may require a re-submission. [Regulation 20(8) of the Dealers Regulations]
5. No false or misleading information shall be furnished to IMDA for the purpose of obtaining any equipment registration or renewal of registration. [Regulation 21(1) of the Dealers Regulations]
6. Any registration or renewal of registration granted as a result of submission of false or misleading information shall be null and void. [Regulation 21(2) of the Dealers Regulations]
7. Any person who contravenes regulation 21(1) and submits false or misleading information shall be guilty of an offence. [Regulation 24 of the Dealers Regulations]

Client ID : 85764

WIDEMINDS PTE. LTD.
20 MAXWELL ROAD #09-17
MAXWELL HOUSE
SINGAPORE 069113

ATTN : CHANG YA LAN

Dear Sirs,

**EQUIPMENT REGISTRATION UNDER TELECOMMUNICATIONS (DEALERS)
REGULATIONS**

Registration Number: N4014-21

We acknowledge that the equipment listed below has been registered with the Info-communications Media Development Authority under regulation 20(6) of the Telecommunications (Dealers) Regulations (Cap 323, Rg 6) (the "Dealers Regulations") and approved for sale in Singapore. Your attention is drawn to the relevant provisions and requirements of the Dealers Regulations described below.

Declared Equipment Information

Brand/Trade Name : Elo
Model Name/No. : ESY22I4
Equipment Description : Touch All In One Computer With Wifi abgn,ac +BT
IMDA Spec. No. : IMDA TS SRD
Equipment Category : Private Mobile Radio
Equipment Type : Wireless LAN
Frequency Band : 2.4000 - 2.4835 GHz (<= 100 mW (e.i.r.p.))
(Maximum Radiated : 2.4000 - 2.4835 GHz (<= 200 mW (e.i.r.p.))
Power /Field Strength) : 5.150 - 5.350 GHz (> 100 mW (e.i.r.p.) <= 200 mW (e.i.r.p.))
5.470 - 5.725 GHz (<= 1000 mW (e.i.r.p.))
5.725 - 5.850 GHz (<= 1000 mW (e.i.r.p.))
Date of Registration : 10 August 2021
Date of Expiry : 31 July 2026

This is a computer generated email notification. No signature is required.

Note: Should you need clarification, please email to TLSINFO@IMDA.GOV.SG .

Sent by:  **INFOCOMM
MEDIA
DEVELOPMENT
AUTHORITY**
Info-communications Media Development Authority

Information on Equipment Registration for Complex/Multi-Line Equipment or Short Range/Low Power Devices

1. IMDA may require the equipment supplier to submit test results or evidence of equipment certification as proof of conformity with the applicable IMDA Technical Specification(s)[Regulation 20(5) of the Dealers Regulations]
2. Equipment registration under regulation 20(6) shall be valid for a period of 5 years. [Regulation 20(6) of the Dealers Regulations]
3. The registration may be renewed for periods not exceeding 5 years upon an application being made to IMDA. [Regulation 20(7) and 20(7A) of the Dealers Regulations]
4. Any modification to the registered equipment may require a re-submission. [Regulation 20(8) of the Dealers Regulations]
5. No false or misleading information shall be furnished to IMDA for the purpose of obtaining any equipment registration or renewal of registration. [Regulation 21(1) of the Dealers Regulations]
6. Any registration or renewal of registration granted as a result of submission of false or misleading information shall be null and void. [Regulation 21(2) of the Dealers Regulations]
7. Any person who contravenes regulation 21(1) and submits false or misleading information shall be guilty of an offence. [Regulation 24 of the Dealers Regulations]



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

Associação Versys de Tecnologia

Av. José Rocha Bomfim No 214, BL D, UM 126 – Loteamento Center Santa Genebra, Campinas-SP, Cep: 13080-650, Brasil
Fone/Phone: 19 3203-2278 – E-mail: versys@versys.org.br
www.versys.org.br

Número do Certificado / *Certificate Number*: Versys 3064

Data Certificação / *Certification Date*: 14/12/2021
Data Validade / *Expiry Date*: 14/12/2023
Data Manutenção / *Renewal Date*: -
Data Emissão / *Issue Date*: 14/12/2021

Modelo / *Model*: ESY1014

Solicitante/ *Solicitant*:

DKAF do Brasil Representações Ltda. – EPP
Rua Guaicurus, 580 - Vila Togni - Poços de Caldas - MG - CEP: 37704-347,
CNPJ: 27.095.886/0001-50

Fabricante (Detentor da Tecnologia) / *Manufacturer (Product Owner)*:

Elo Touch Solutions, Inc
670 N. McCarthy Blvd., Suite 100, Milpitas, CA 95035, Estados Unidos

Tipo de Produto / *Product Classification*:

Transceptor de Radiação Restrita – Modulação Digital

Especificações Técnicas Básicas / *Technical Specifications*:

Transceptor de Radiação Restrita – Modulação Digital do tipo *All-in-One* para aplicações em PoS, destinado a receber e transmitir dados em rede de área local e pessoal de comunicação sem fio.

Faixa de Frequência / <i>Frequency Range (MHz)</i>	Potência Máxima de Saída / <i>Maximum Output Power (W)</i>	Designação de Emissões / <i>Designation of Emissions</i>	Tipo de Modulação / <i>Modulation</i>	Técnica de Espalhamento Espectral / <i>Spread Spectrum Techniques</i>	SAR Cabeça / <i>Head SAR (W/kg)</i>	SAR Corpo / <i>Body SAR (W/kg)</i>	Tecnologia / <i>Technology</i>	Taxa de Transmissão / <i>Transmission Rate (Mbit/s)</i>
2400 a 2483,5	0,00526	695KF7D	GFSK	FHSS	----	----	Bluetooth	1
2400 a 2483,5	0,00782	1M33G7D	$\pi/4$ -DQPSK; 8-DPSK	FHSS	----	----	Bluetooth EDR	2 e 3
2400 a 2483,5	0,00728	719KF7D	GFSK	DSSS	----	----	Bluetooth LE (1 MHz)	1
2400 a 2483,5	0,00929	1M20F7D	GFSK	DSSS	----	----	Bluetooth LE (2 MHz)	2
2400 a 2483,5	0,05060	10M4X9D	CCK, DBPSK, DQPSK	DSSS	----	----	802.11 b	11
2400 a 2483,5	0,16037	17M0X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11 g	54
2400 a 2483,5	0,12883	18M1X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11 n 20 MHz	150
2400 a 2483,5	0,12118	37M5X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11 n 40 MHz	300

(vide continuação na próx. página)

A Versys Certificações, Organismo de Certificação Designado pela ANATEL informa que o produto acima está em conformidade com a regulamentação vigente.

Versys Certificações, a Certification Body Designated by ANATEL states that the product above mentioned is in conformity with the current ANATEL regulation.

Darles Leandro C. Gomes
Especialista em Certificação
Certification Specialist



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

Faixa de Frequência / Frequency Range (MHz)	Potência Máxima de Saída / Maximum Output Power (W)	Designação de Emissões / Designation of Emissions	Tipo de Modulação / Modulation	Técnica de Espalhamento Espectral / Spread Spectrum Techniques	SAR Cabeça / Head SAR (W/kg)	SAR Corpo / Body SAR (W/kg)	Tecnologia / Technology	Taxa de Transmissão / Transmission Rate (Mbit/s)
5150 a 5250	0,01662	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5150 a 5250	0,01587	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5150 a 5250	0,01116	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5150 a 5250	0,01611	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5150 a 5250	0,01123	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5150 a 5250	0,01106	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5250 a 5350	0,01787	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5250 a 5350	0,01744	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5250 a 5350	0,01266	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5250 a 5350	0,01736	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5250 a 5350	0,01258	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5250 a 5350	0,01190	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5470 a 5725	0,05473	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5470 a 5725	0,04961	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5470 a 5725	0,04588	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5470 a 5725	0,05678	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5470 a 5725	0,04363	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5470 a 5725	0,03141	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5725 a 5850	0,04267	16M8X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5725 a 5850	0,04008	18M1X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150

CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

5725 a 5850	0,03220	37M2X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5725 a 5850	0,04127	18M0X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5725 a 5850	0,03168	37M1X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5725 a 5850	0,02801	77M1X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7

- Ensaio de SAR não aplicável: o equipamento não é estação terminal portátil

- Os valores de potência indicados para as faixas de 2.400~2.483,5 MHz e 5.725~5.850 MHz referem-se à potência de pico conduzida.

- Os valores de potência indicados para a faixa 5.150~5.350 MHz referem-se a potência média conduzida.

- Os valores de potência indicados para a faixa de 5.470~5.725MHz referem-se à potência média em e.i.r.p.

- O equipamento possui antenas integradas (MIMO 2x2):

O ganho das antenas para a faixa de 5.150~5.250 MHz é de 1,60 dBi e 1,61 dBi;

O ganho das antenas para a faixa de 5.250~5.350 MHz é de 1,60 dBi e 0,75 dBi;

O ganho das antenas para a faixa de 5.470~5.725 MHz é de 1,26 dBi e 1,50 dBi.

Normas aplicáveis / *Applicable Standards:*

Resolução Nº 680, ATO Nº 14448, ATO Nº 4776, ATO Nº 6506, ATO Nº 1120 e ATO Nº 950.

Laboratórios e Relatórios de Ensaios / *Laboratories and Test Reports:*

Normatel Ltda. (www.normatellab.com.br)

INPE/LIT – Instituto Nacional de Pesquisas Espaciais (www.lit.inpe.br)

Número do(s) Relatório(s) / *Test Report Numbers:*

RTN06021 – Rev.1 --- (25/11/2021)

ELOT01-R01, Versão 03 --- (07/12/2021)

ELOT01-R02, Versão 03 --- (07/12/2021)

ELOT01-R03, Versão 03 --- (07/12/2021)

ELOT01-R04, Versão 01 --- (06/12/2021)

ELOT01-R05, Versão 01 --- (06/12/2021)

ELOT01-R06, Versão 01 --- (06/12/2021)

Informações Adicionais / *Additional Information:*

- Conforme redação dada pelo ATO Nº 4776 (01/09/2020), equipamentos operando nas faixas 5.150~5.350 MHz devem ser utilizados em ambiente fechado (indoor).

- O requerente apresentou declaração em conformidade com os Requisitos de Segurança Cibernética para Equipamentos para Telecomunicações.

Especificações Técnicas Complementares / *Complementary Technical Specifications:*

- O produto poderá ser comercializado com as seguintes fontes de alimentação:

1. Modelo BA090-190474MBX, fabricada por EG-Billion Electronics (Dongguan) Co., Ltd., DE 100~240 VCA (2A; 50~60 Hz) de entrada e 19 VCC (4,74 A) de saída;
2. Modelo ADP-65JH HB, fabricada por Delta Electronics, Inc., de 100~240 VCA de entrada (1,5 A; 50~60 Hz) e 19 VCC (3,42 A) de saída.

- O produto pode ser alimentado via PoE através do encaixe de um módulo de potência fornecido pelo fabricante no terminal que se encontra em sua parte traseira.



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

Observações / *Observations:*

Este Certificado é baseado em ensaio de tipo e avaliações periódicas, sendo este válido apenas para os produtos idênticos àqueles submetidos aos ensaios. Quaisquer modificações nos projetos a nível de hardware/software que descaracterizem o produto já ensaiado, sem consentimento e autorização da Versys Certificações, invalidarão este Certificado.

A comercialização do produto somente estará autorizada após a emissão da Homologação da ANATEL.

Histórico / *History:*

Processo/ <i>Process</i>	Revisão/ <i>Revision</i>	Data/ <i>Date</i>	Descrição/ <i>Description</i>
6912-21-01-IN-R0	00	14/12/2021	Emissão Inicial



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

Associação Versys de Tecnologia

Av. José Rocha Bomfim No 214, BL D, UM 126 – Loteamento Center Santa Genebra, Campinas-SP, Cep: 13080-650, Brasil
Fone/Phone: 19 3203-2278 – E-mail: versys@versys.org.br
www.versys.org.br

Número do Certificado / *Certificate Number*: Versys 3065

Data Certificação / *Certification Date*: 14/12/2021
Data Validade / *Expiry Date*: 14/12/2023
Data Manutenção / *Renewal Date*: -
Data Emissão / *Issue Date*: 14/12/2021

Modelo / *Model*: ESY1 514

Solicitante/ *Solicitant*:

DKAF do Brasil Representações Ltda. – EPP
Rua Guaicurus, 580 - Vila Togni - Poços de Caldas - MG - CEP: 37704-347,
CNPJ: 27.095.886/0001-50

Fabricante (Detentor da Tecnologia) / *Manufacturer (Product Owner)*:

Elo Touch Solutions, Inc
670 N. McCarthy Blvd., Suite 100, Milpitas, CA 95035, Estados Unidos

Tipo de Produto / *Product Classification*:

Transceptor de Radiação Restrita – Modulação Digital

Especificações Técnicas Básicas / *Technical Specifications*:

Transceptor de Radiação Restrita – Modulação Digital do tipo *All-in-One* para aplicações em PoS, destinado a receber e transmitir dados em rede de área local e pessoal de comunicação sem fio.

Faixa de Frequência / <i>Frequency Range (MHz)</i>	Potência Máxima de Saída / <i>Maximum Output Power (W)</i>	Designação de Emissões / <i>Designation of Emissions</i>	Tipo de Modulação / <i>Modulation</i>	Técnica de Espalhamento Espectral / <i>Spread Spectrum Techniques</i>	SAR Cabeça / <i>Head SAR (W/kg)</i>	SAR Corpo / <i>Body SAR (W/kg)</i>	Tecnologia / <i>Technology</i>	Taxa de Transmissão / <i>Transmission Rate (Mbit/s)</i>
2400 a 2483,5	0,00526	695KF7D	GFSK	FHSS	----	----	Bluetooth	1
2400 a 2483,5	0,00782	1M33G7D	$\pi/4$ -DQPSK; 8-DPSK	FHSS	----	----	Bluetooth EDR	2 e 3
2400 a 2483,5	0,00728	719KF7D	GFSK	DSSS	----	----	Bluetooth LE (1 MHz)	1
2400 a 2483,5	0,00929	1M20F7D	GFSK	DSSS	----	----	Bluetooth LE (2 MHz)	2
2400 a 2483,5	0,05060	10M4X9D	CCK, DBPSK, DQPSK	DSSS	----	----	802.11 b	11
2400 a 2483,5	0,16037	17M0X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11 g	54
2400 a 2483,5	0,12883	18M1X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20 MHz	150
2400 a 2483,5	0,12118	37M5X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40 MHz	300

(vide continuação na próx. página)

A Versys Certificações, Organismo de Certificação Designado pela ANATEL informa que o produto acima está em conformidade com a regulamentação vigente.

Versys Certificações, a Certification Body Designated by ANATEL states that the product above mentioned is in conformity with the current ANATEL regulation.

Darles Leandro C. Gomes
Especialista em Certificação
Certification Specialist



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

Faixa de Frequência / Frequency Range (MHz)	Potência Máxima de Saída / Maximum Output Power (W)	Designação de Emissões / Designation of Emissions	Tipo de Modulação / Modulation	Técnica de Espalhamento Espectral / Spread Spectrum Techniques	SAR Cabeça / Head SAR (W/kg)	SAR Corpo / Body SAR (W/kg)	Tecnologia / Technology	Taxa de Transmissão / Transmission Rate (Mbit/s)
5150 a 5250	0,01662	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5150 a 5250	0,01587	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5150 a 5250	0,01116	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5150 a 5250	0,01611	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5150 a 5250	0,01123	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5150 a 5250	0,01106	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5250 a 5350	0,01787	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5250 a 5350	0,01744	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5250 a 5350	0,01266	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5250 a 5350	0,01736	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5250 a 5350	0,01258	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5250 a 5350	0,01190	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5470 a 5725	0,05473	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5470 a 5725	0,04961	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5470 a 5725	0,04588	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5470 a 5725	0,05678	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5470 a 5725	0,04363	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5470 a 5725	0,03141	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5725 a 5850	0,04267	16M8X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5725 a 5850	0,04008	18M1X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5725 a 5850	0,03220	37M2X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5725 a 5850	0,04127	18M0X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5725 a 5850	0,03168	37M1X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5725 a 5850	0,02801	77M1X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7

- Ensaio de SAR não aplicável: o equipamento não é estação terminal portátil.

- Os valores de potência indicados para as faixas de 2.400~2.483,5 MHz e 5.725~5.850 MHz referem-se à potência de pico conduzida.

- Os valores de potência indicados para a faixa 5.150~5.350 MHz referem-se a potência média conduzida.

- Os valores de potência indicados para a faixa de 5.470~5.725MHz referem-se à potência média em e.i.r.p.

- O equipamento possui antenas integradas (MIMO 2x2):

O ganho das antenas para a faixa de 5.150~5.250 MHz é de 1,60 dBi e 1,61 dBi;



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

O ganho das antenas para a faixa de 5.250~5.350 MHz é de 1,60 dBi e 0,75 dBi;
O ganho das antenas para a faixa de 5.470~5.725 MHz é de 1,26 dBi e 1,50 dBi.

Normas aplicáveis / *Applicable Standards:*

Resolução Nº 680, ATO Nº 14448, ATO Nº 4776, ATO Nº 6506, ATO Nº 1120 e ATO Nº 950.

Laboratórios e Relatórios de Ensaios / *Laboratories and Test Reports:*

Normatel Ltda. (www.normatellab.com.br)

INPE/LIT – Instituto Nacional de Pesquisas Espaciais (www.lit.inpe.br)

Número do(s) Relatório(s) / *Test Report Numbers:*

RTN06021 – Rev.1 – (25/11/2021)

ELOT01-R13, Versão 03 (07/12/2021)

ELOT01-R14, Versão 03 (07/12/2021)

ELOT01-R15, Versão 03 (07/12/2021)

ELOT01-R16, Versão 01 (06/12/2021)

ELOT01-R17, Versão 01 (06/12/2021)

ELOT01-R18, Versão 01 (06/12/2021)

Informações Adicionais / *Additional Information:*

- Conforme redação dada pelo ATO Nº 4776 (01/09/2020), equipamentos operando nas faixas 5.150~5.350 MHz devem ser utilizados em ambiente fechado (indoor).

- O requerente apresentou declaração em conformidade com os Requisitos de Segurança Cibernética para Equipamentos para Telecomunicações.

Especificações Técnicas Complementares / *Complementary Technical Specifications:*

- O produto poderá ser comercializado com as seguintes fontes de alimentação:

1. Modelo BA090-190474MBX, fabricada por EG-Billion Electronics (Dongguan) Co., Ltd., DE 100~240 VCA (2A; 50~60 Hz) de entrada e 19 VCC (4,74 A) de saída;
2. Modelo ADP-65JH HB, fabricada por Delta Electronics, Inc., de 100~240 VCA de entrada (1,5 A; 50~60 Hz) e 19 VCC (3,42 A) de saída.

- O produto pode ser alimentado via PoE através do encaixe de um módulo de potência fornecido pelo fabricante no terminal que se encontra em sua parte traseira.

Observações / *Observations:*

Este Certificado é baseado em ensaio de tipo e avaliações periódicas, sendo este válido apenas para os produtos idênticos àqueles submetidos aos ensaios. Quaisquer modificações nos projetos a nível de hardware/software que descaracterizem o produto já ensaiado, sem consentimento e autorização da Versys Certificações, invalidarão este Certificado.

A comercialização do produto somente estará autorizada após a emissão da Homologação da ANATEL.

Histórico / *History:*

Processo/ <i>Process</i>	Revisão/ <i>Revision</i>	Data/ <i>Date</i>	Descrição/ <i>Description</i>
6920-21-01-IN-R0	00	14/12/2021	Emissão Inicial



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

Associação Versys de Tecnologia

Av. José Rocha Bomfim No 214, BL D, UM 126 – Loteamento Center Santa Genebra, Campinas-SP, Cep: 13080-650, Brasil
Fone/Phone: 19 3203-2278 – E-mail: versys@versys.org.br
www.versys.org.br

Número do Certificado / *Certificate Number*: Versys 3066

Data Certificação / *Certification Date*: 14/12/2021

Modelo / *Model*: ESY2214

Data Validade / *Expiry Date*: 14/12/2023

Data Manutenção / *Renewal Date*: -

Data Emissão / *Issue Date*: 14/12/2021

Solicitante/ *Solicitant*:

DKAF do Brasil Representações Ltda. – EPP
Rua Guaicurus, 580 - Vila Togni - Poços de Caldas - MG - CEP: 37704-347,
CNPJ: 27.095.886/0001-50

Fabricante (Detentor da Tecnologia) / *Manufacturer (Product Owner)*:

Elo Touch Solutions, Inc
670 N. McCarthy Blvd., Suite 100, Milpitas, CA 95035, Estados Unidos

Tipo de Produto / *Product Classification*:

Transceptor de Radiação Restrita – Modulação Digital

Especificações Técnicas Básicas / *Technical Specifications*:

Transceptor de Radiação Restrita – Modulação Digital do tipo *All-in-One* para aplicações em PoS, destinado a receber e transmitir dados em rede de área local e pessoal de comunicação sem fio.

Faixa de Frequência / <i>Frequency Range (MHz)</i>	Potência Máxima de Saída / <i>Maximum Output Power (W)</i>	Designação de Emissões / <i>Designation of Emissions</i>	Tipo de Modulação / <i>Modulation</i>	Técnica de Espalhamento Espectral / <i>Spread Spectrum Techniques</i>	SAR Cabeça / <i>Head SAR (W/kg)</i>	SAR Corpo / <i>Body SAR (W/kg)</i>	Tecnologia / <i>Technology</i>	Taxa de Transmissão / <i>Transmission Rate (Mbit/s)</i>
2400 a 2483,5	0,00526	695KF7D	GFSK	FHSS	----	----	Bluetooth	1
2400 a 2483,5	0,00782	1M33G7D	$\pi/4$ -DQPSK; 8-DPSK	FHSS	----	----	Bluetooth EDR	2 e 3
2400 a 2483,5	0,00728	719KF7D	GFSK	DSSS	----	----	Bluetooth LE (1 MHz)	1
2400 a 2483,5	0,00929	1M20F7D	GFSK	DSSS	----	----	Bluetooth LE (2 MHz)	2
2400 a 2483,5	0,05060	10M4X9D	CCK, DBPSK, DQPSK	DSSS	----	----	802.11 b	11
2400 a 2483,5	0,16037	17M0X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11 g	54
2400 a 2483,5	0,12883	18M1X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20 MHz	150
2400 a 2483,5	0,12118	37M5X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40 MHz	300

(vide continuação na próx. página)

A Versys Certificações, Organismo de Certificação Designado pela ANATEL informa que o produto acima está em conformidade com a regulamentação vigente.

Versys Certificações, a Certification Body Designated by ANATEL states that the product above mentioned is in conformity with the current ANATEL regulation.

Darles Leandro C. Gomes
Especialista em Certificação
Certification Specialist



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

Faixa de Frequência / Frequency Range (MHz)	Potência Máxima de Saída / Maximum Output Power (W)	Designação de Emissões / Designation of Emissions	Tipo de Modulação / Modulation	Técnica de Espalhamento Espectral / Spread Spectrum Techniques	SAR Cabeça / Head SAR (W/kg)	SAR Corpo / Body SAR (W/kg)	Tecnologia / Technology	Taxa de Transmissão / Transmission Rate (Mbit/s)
5150 a 5250	0,01662	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5150 a 5250	0,01587	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5150 a 5250	0,01116	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5150 a 5250	0,01611	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5150 a 5250	0,01123	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5150 a 5250	0,01106	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5250 a 5350	0,01787	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5250 a 5350	0,01744	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5250 a 5350	0,01266	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5250 a 5350	0,01736	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5250 a 5350	0,01258	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5250 a 5350	0,01190	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5470 a 5725	0,05473	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5470 a 5725	0,04961	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5470 a 5725	0,04588	----	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5470 a 5725	0,05678	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5470 a 5725	0,04363	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5470 a 5725	0,03141	----	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7
5725 a 5850	0,04267	16M8X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11a	54
5725 a 5850	0,04008	18M1X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 20MHz	150
5725 a 5850	0,03220	37M2X9D	BPSK, QPSK, 16QAM, 64QAM	OFDM	----	----	802.11n 40MHz	300
5725 a 5850	0,04127	18M0X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 20MHz	173,3
5725 a 5850	0,03168	37M1X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 40MHz	400
5725 a 5850	0,02801	77M1X9D	BPSK, QPSK, 16QAM, 64QAM 256QAM	OFDM	----	----	802.11ac 80MHz	866,7

- Ensaio de SAR não aplicável: o equipamento não é estação terminal portátil.

- Os valores de potência indicados para as faixas de 2.400~2.483,5 MHz e 5.725~5.850 MHz referem-se à potência de pico conduzida.

- Os valores de potência indicados para a faixa 5.150~5.350 MHz referem-se a potência média conduzida.

- Os valores de potência indicados para a faixa de 5.470~5.725MHz referem-se à potência média em e.i.r.p.

- O equipamento possui antenas integradas (MIMO 2x2):

O ganho das antenas para a faixa de 5.150~5.250 MHz é de 1,60 dBi e 1,61 dBi;



CERTIFICADO DE CONFORMIDADE CERTIFICATE OF CONFORMITY

O ganho das antenas para a faixa de 5.250~5.350 MHz é de 1,60 dBi e 0,75 dBi;
O ganho das antenas para a faixa de 5.470~5.725 MHz é de 1,26 dBi e 1,50 dBi.

Normas aplicáveis / *Applicable Standards:*

Resolução Nº 680, ATO Nº 14448, ATO Nº 4776, ATO Nº 6506, ATO Nº 1120 e ATO Nº 950.

Laboratórios e Relatórios de Ensaios / *Laboratories and Test Reports:*

Normatel Ltda. (www.normatellab.com.br)

INPE/LIT – Instituto Nacional de Pesquisas Espaciais (www.lit.inpe.br)

Número do(s) Relatório(s) / *Test Report Numbers:*

RTN06021 – Rev.1 – (25/11/2021);
ELOT01-R07, Versão 03 (07/12/2021)
ELOT01-R08, Versão 03 (07/12/2021)
ELOT01-R09, Versão 03 (07/12/2021)
ELOT01-R10, Versão 01 (06/12/2021)
ELOT01-R11, Versão 01 (06/12/2021)
ELOT01-R12, Versão 01 (06/12/2021)

Informações Adicionais / *Additional Information:*

- Conforme redação dada pelo ATO Nº 4776 (01/09/2020), equipamentos operando nas faixas 5.150~5.350 MHz devem ser utilizados em ambiente fechado (indoor).
- O requerente apresentou declaração em conformidade com os Requisitos de Segurança Cibernética para Equipamentos para Telecomunicações.

Especificações Técnicas Complementares / *Complementary Technical Specifications:*

- O produto poderá ser comercializado com as seguintes fontes de alimentação:

1. Modelo BA090-190474MBX, fabricada por EG-Billion Electronics (Dongguan) Co., Ltd., DE 100~240 VCA (2A; 50~60 Hz) de entrada e 19 VCC (4,74 A) de saída;
2. Modelo ADP-65JH HB, fabricada por Delta Electronics, Inc., de 100~240 VCA de entrada (1,5 A; 50~60 Hz) e 19 VCC (3,42 A) de saída.

- O produto pode ser alimentado via PoE através do encaixe de um módulo de potência fornecido pelo fabricante no terminal que se encontra em sua parte traseira.

Observações / *Observations:*

Este Certificado é baseado em ensaio de tipo e avaliações periódicas, sendo este válido apenas para os produtos idênticos àqueles submetidos aos ensaios. Quaisquer modificações nos projetos a nível de hardware/software que descaracterizem o produto já ensaiado, sem consentimento e autorização da Versys Certificações, invalidarão este Certificado.

A comercialização do produto somente estará autorizada após a emissão da Homologação da ANATEL.

Histórico / *History:*

Processo/ <i>Process</i>	Revisão/ <i>Revision</i>	Data/ <i>Date</i>	Descrição/ <i>Description</i>
6921-21-01-IN-R0	00	14/12/2021	Emissão Inicial