

## EU Declaration of Conformity

**Model Number:** EMC0550  
**Equipment Category:** Information Technology and Telecommunications Equipment  
**Equipment Class:** Commercial and Light Industrial  
**Product Name:** Handheld wireless data terminal  
**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 B
- EN55035:2017
- EN 61000-3-2:2019
- EN 61000-3-3:2013+A1:2019
- EN 61000-6-1:2019
- IEC 61000-4-2:2008
- IEC 61000-4-3:2010
- IEC 61000-4-4:2012
- IEC 61000-4-5: 2017
- IEC 61000-4-6:2013
- IEC 61000-4-8:2009
- IEC 61000-4-11: 2017
- Draft ETSI EN 301 489-1 V2.2.0 (2017-03)
- Final ETSI EN 301 489-3 V2.1.1 (2017-03)
- Draft ETSI EN 301 489-17 V3.2.0 (2017-03)
- ETSI EN 300 440 V2.2.1(2018-07)
- EN 300 328 V2.2.2(2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05)
- ETSI EN 300 330 V2.1.1 (2017-02)
- EN50566:2017
- EN62311:2020
- EN62479:2010
- EN50663:2017
- EN62209-2:2010
- EN50665:2017
- EN62368-1:2014+A11:2017
- IEC 62368-1:2014 Second Edition with all CB-scheme national differences

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 50581:2012.



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

# EU Declaration of Conformity

**Model Number:** EMC0550C  
**Equipment Category:** Information Technology and Telecommunications Equipment  
**Equipment Class:** Commercial and Light Industrial  
**Product Name:** Handheld wireless data terminal  
**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 B
- EN55035:2017
- EN 61000-3-2:2019
- EN 61000-3-3:2013+A1:2019
- EN 61000-6-1:2019
- IEC 61000-4-2:2008
- IEC 61000-4-3:2010
- IEC 61000-4-4:2012
- IEC 61000-4-5: 2017
- IEC 61000-4-6:2013
- IEC 61000-4-8:2009
- IEC 61000-4-11: 2017
- Draft ETSI EN 301 489-1 V2.2.0 (2017-03)
- Final ETSI EN 301 489-3 V2.1.1 (2017-03)
- Draft ETSI EN 301 489-17 V3.2.0 (2017-03)
- ETSI EN 301 489-19 V2.1.1 (2019-04)
- Final Draft ETSI EN 301 489-1 V2.1.1 (2016-11)
- Draft ETSI EN 301 489-52 V1.1.0 (2016-11)
- ETSI EN 301 908-1 V13.1.1(2019-11)
- ETSI EN 303 413 V1.1.1(2017-06)
- ETSI EN 300 440 V2.2.1(2018-07)
- EN 300 328 V2.2.2(2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05)
- ETSI EN 300 330 V2.1.1 (2017-02)
- EN50566:2017
- EN62311:2020
- EN62479:2010
- EN50663:2017
- EN62209-2:2010
- EN50665:2017
- EN62368-1:2014+A11:2017
- IEC 62368-1:2014 Second Edition with all CB-scheme national differences

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 50581:2012.



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

## UK Declaration of Conformity

**Model Number:** EMC0550  
**Equipment Category:** Information Technology and Telecommunications Equipment  
**Equipment Class:** Commercial and Light Industrial  
**Product Name:** Handheld wireless data terminal  
**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:

- BS EN55032:2015/A11:2020 Class B
- BS EN55035:2017
- BS EN 61000-3-2:2019
- BS EN 61000-3-3:2013+A1:2019
- BS EN 61000-6-1:2019
- IEC 61000-4-2:2008
- IEC 61000-4-3:2010
- IEC 61000-4-4:2012
- IEC 61000-4-5: 2017
- IEC 61000-4-6:2013
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- IEC 61000-4-11: 2017
- Draft ETSI EN 301 489-1 V2.2.0 (2017-03)
- Final ETSI EN 301 489-3 V2.1.1 (2017-03)
- Draft ETSI EN 301 489-17 V3.2.0 (2017-03)
- ETSI EN 300 440 V2.2.1(2018-07)
- BS EN 300 328 V2.2.2(2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05)
- ETSI EN 300 330 V2.1.1 (2017-02)
- BS EN50566:2017
- BS EN62311:2020
- BS EN62479:2010
- BS EN50663:2017
- BS EN62209-2:2010
- BS EN50665:2017
- BS EN62368-1:2014+A11:2017
- IEC 62368-1:2014 Second Edition with all CB-scheme national differences

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 50581:2012.



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

# UK Declaration of Conformity

**Model Number:** EMC0550C  
**Equipment Category:** Information Technology and Telecommunications Equipment  
**Equipment Class:** Commercial and Light Industrial  
**Product Name:** Handheld wireless data terminal  
**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:

- BS EN55032:2015/A11:2020 Class B
- BS EN55035:2017
- BS EN 61000-3-2:2019
- BS EN 61000-3-3:2013+A1:2019
- BS EN 61000-6-1:2019
- IEC 61000-4-2:2008
- IEC 61000-4-3:2010
- IEC 61000-4-4:2012
- IEC 61000-4-5: 2017
- IEC 61000-4-6:2013
- IEC 61000-4-8:2009
- IEC 61000-4-11: 2017
- Draft ETSI EN 301 489-1 V2.2.0 (2017-03)
- Final ETSI EN 301 489-3 V2.1.1 (2017-03)
- Draft ETSI EN 301 489-17 V3.2.0 (2017-03)
- ETSI EN 301 489-19 V2.1.1 (2019-04)
- Final Draft ETSI EN 301 489-1 V2.1.1 (2016-11)
- Draft ETSI EN 301 489-52 V1.1.0 (2016-11)
- ETSI EN 301 908-1 V13.1.1(2019-11)
- ETSI EN 303 413 V1.1.1(2017-06)
- ETSI EN 300 440 V2.2.1(2018-07)
- BS EN 300 328 V2.2.2(2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05)
- ETSI EN 300 330 V2.1.1 (2017-02)
- BS EN50566:2017
- BS EN62311:2020
- BS EN62479:2010
- BS EN50663:2017
- BS EN62209-2:2010
- BS EN50665:2017
- BS EN62368-1:2014+A11:2017
- IEC 62368-1:2014 Second Edition with all CB-scheme national differences

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 50581:2012.



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



Ref. Certif. No.

**DK-114240-UL**

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

**CB TEST CERTIFICATE**

Product	Handheld wireless data terminal
Name and address of the applicant	Elo Touch Solutions, Inc. 670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, United States
Name and address of the manufacturer	Elo Touch Solutions, Inc. 670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, United States
Name and address of the factory	Elo Touch Solution, Inc. 2245 BRIGHTON-HENRIETTA TOWN LINE RD, ROCHESTER NY 14623, USA.
Note: When more than one factory, please report on page 2	<input checked="" type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	DC 5 V, 3 A
Trademark (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	EMC0550, EMC0550C
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	SU0186-21004 issued on 2021-05-14

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](http://www.ul.com/ncbnames)

Date: 2021-06-02

Signature: Jan-Erik Storgaard



Ref. Certif. No.

**DK-114240-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/ncbnames](http://www.ul.com/ncbnames)

Date: 2021-06-02

Signature:   
Jan-Erik Storgaard

9 July 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:** EMC0550, EMC0550C

**Equipment Category:** Information Technology and Telecommunications Equipment

**Equipment Class:** Commercial and Light Industrial

**Product Name:** Handheld wireless data terminal

**Manufacturer:** Elo Touch Solutions, Inc.  
670 N. McCarthy Blvd.  
Suite 100  
Milpitas, CA 95035  
[www.elotouch.com](http://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

A handwritten signature in blue ink, reading "Kevin Huang", written over a horizontal line.

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:**

Timco Engineering, Inc.  
849 NW State Road 45  
Newberry, FL 32669

**Date of Grant: 01/08/2021**  
**Application Dated: 01/07/2021**

**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:** RBWEMC0550  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** **Unlicensed National Information  
Infrastructure TX**  
**Notes:** **Handheld wireless data terminal**

<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 MO	15E	5180.0 - 5240.0	0.0296		
CC MO	15E	5260.0 - 5320.0	0.0297		
CC MO	15E	5500.0 - 5700.0	0.0315		
CC MO	15E	5745.0 - 5825.0	0.0318		

Output Power listed is the maximum combined conducted output power. The highest reported SAR for product specific (10 g SAR) and simultaneous transmission exposure conditions are 0.43 W/kg and 0.66 W/kg, respectively. This device supports 20, 40 and 80 MHz bandwidth modes.

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  
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**849 NW State Road 45**  
**Newberry, FL 32669**

**Date of Grant: 01/08/2021**  
**Application Dated: 01/07/2021**

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

**NOT TRANSFERABLE**

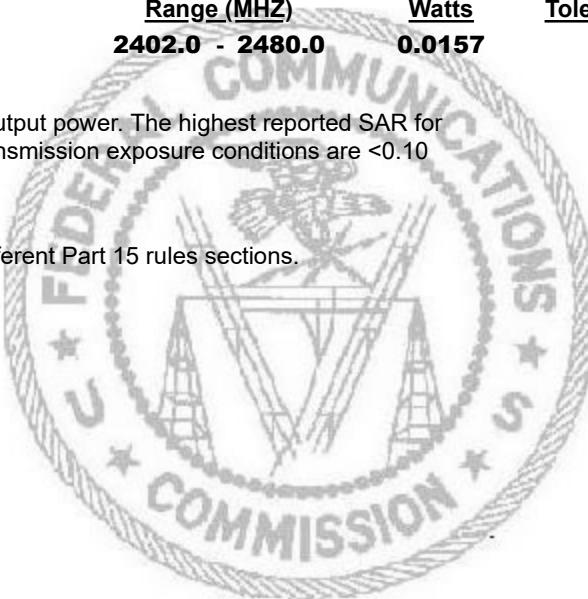
EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

**FCC IDENTIFIER:** RBWEMC0550  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** Part 15 Spread Spectrum Transmitter  
**Notes:** Handheld wireless data terminal

<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	0.0157		

Output Power listed is the maximum conducted output power. The highest reported SAR for product specific (10 g SAR) and simultaneous transmission exposure conditions are <0.10 W/kg and 0.56 W/kg, respectively.

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:**

**Timco Engineering, Inc.**  
**849 NW State Road 45**  
**Newberry, FL 32669**

**Date of Grant: 01/08/2021**  
**Application Dated: 01/07/2021**

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

**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:** RBWEMC0550  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** Digital Transmission System  
**Notes:** Handheld wireless data terminal

<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	0.0052		
CC MO	15C	2412.0 - 2462.0	0.1324		

Output Power listed is the maximum combined conducted output power. End-users must be informed of the body-worn operating requirements for satisfying RF exposure compliance. The highest reported SAR for product specific (10 g SAR) and simultaneous transmission exposure conditions are 0.40 W/kg and 0.66 W/kg, respectively. This device supports 20 and 40 MHz bandwidth modes.

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:**

**Timco Engineering, Inc.**  
**849 NW State Road 45**  
**Newberry, FL 32669**

**Date of Grant: 01/08/2021**  
**Application Dated: 01/07/2021**

**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:** RBWEMC0550  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** **Part 15 Low Power Communication Device**  
**Transmitter**  
**Notes:** **Handheld wireless data terminal**

<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	13.56 - 13.56			

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



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AUTHORIZATION****TCB**

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

**Timco Engineering, Inc.**  
**849 NW State Road 45**  
**Newberry, FL 32669**

**Date of Grant: 01/07/2021**  
**Application Dated: 01/05/2021**

**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:** RBWEMC0550C  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** Part 15 Low Power Communication Device  
Transmitter  
**Notes:** Handheld wireless data terminal

<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	13.56 - 13.56			

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:**

**Timco Engineering, Inc.**  
**849 NW State Road 45**  
**Newberry, FL 32669**

**Date of Grant: 01/07/2021**  
**Application Dated: 01/05/2021**

**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:** RBWEMC0550C  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** Part 15 Spread Spectrum Transmitter  
**Notes:** Handheld wireless data terminal

<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	0.0157		

Output Power listed is the maximum conducted output power. SAR compliance for body-worn operating configurations is limited belt-clips and holsters that have no metallic components in the assembly and cause the device to operate with the minimum separation distance of 1.0 cm, as described in this filing. The highest reported SAR for product specific (wireless router), simultaneous transmission and product specific (10g SAR) exposure conditions are <0.10 W/kg, 1.09 W/kg and <0.10 W/kg, respectively.

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:**

**Timco Engineering, Inc.**  
**849 NW State Road 45**  
**Newberry, FL 32669**

**Date of Grant: 01/07/2021**  
**Application Dated: 01/05/2021**

**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:** RBWEMC0550C  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** Digital Transmission System  
**Notes:** Handheld wireless data terminal

<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	0.0052		
CC MO	15C	2412.0 - 2462.0	0.1324		

Output Power listed is the maximum combined conducted output power. SAR compliance for body-worn operating configurations is limited belt-clips and holsters that have no metallic components in the assembly and cause the device to operate with the minimum separation distance of 1.0 cm, as described in this filing. The highest reported SAR for product specific (wireless router), simultaneous transmission and product specific (10g SAR) exposure conditions are 0.24 W/kg, 0.97 W/kg and 0.43 W/kg, respectively. This device supports 20 and 40 MHz bandwidth modes.

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:**

**Timco Engineering, Inc.**  
**849 NW State Road 45**  
**Newberry, FL 32669**

**Date of Grant: 01/07/2021**  
**Application Dated: 01/05/2021**

**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:** RBWEMC0550C  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** **Unlicensed National Information  
Infrastructure TX**  
**Notes:** **Handheld wireless data terminal**

<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 MO	15E	5180.0 - 5240.0	0.0296		
CC MO	15E	5260.0 - 5320.0	0.0297		
CC MO	15E	5500.0 - 5700.0	0.0315		
CC MO	15E	5745.0 - 5825.0	0.0318		

Output Power listed is the maximum combined conducted output power. SAR compliance for body-worn operating configurations is limited belt-clips and holsters that have no metallic components in the assembly and cause the device to operate with the minimum separation distance of 1.0 cm, as described in this filing. The highest reported SAR for product specific (wireless router), simultaneous transmission and product specific (10g SAR) exposure conditions are 0.38 W/kg, 1.09 W/kg and 0.48 W/kg, respectively. This device supports 20, 40 and 80 MHz bandwidth modes.

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.



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**By:**

Timco Engineering, Inc.  
 849 NW State Road 45  
 Newberry, FL 32669

Date of Grant: 01/07/2021  
 Application Dated: 01/05/2021

**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:** RBWEMC0550C  
**Name of Grantee:** Elo Touch Solutions, Inc.  
**Equipment Class:** PCS Licensed Transmitter  
**Notes:** Handheld wireless data terminal

<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>
	<b>22H</b>	<b>826.4 - 846.6</b>	<b>0.0723</b>	<b>0.0288 PM</b>	<b>4M16F9W</b>
	<b>24E</b>	<b>1852.4 - 1907.6</b>	<b>0.6683</b>	<b>0.0174 PM</b>	<b>4M13F9W</b>
	<b>27</b>	<b>1712.4 - 1752.6</b>	<b>0.5346</b>	<b>0.015 PM</b>	<b>4M12F9W</b>
	<b>24E</b>	<b>1860.0 - 1900.0</b>	<b>0.7396</b>	<b>0.0022 PM</b>	<b>18M3G7D</b>
	<b>24E</b>	<b>1860.0 - 1900.0</b>	<b>0.5715</b>	<b>0.0022 PM</b>	<b>18M3W7D</b>
	<b>24E</b>	<b>1850.7 - 1909.3</b>	<b>0.6124</b>	<b>0.0022 PM</b>	<b>1M10W7D</b>
	<b>27</b>	<b>1720.0 - 1745.0</b>	<b>0.5848</b>	<b>0.0031 PM</b>	<b>18M3G7D</b>
	<b>27</b>	<b>1720.0 - 1745.0</b>	<b>0.4498</b>	<b>0.0031 PM</b>	<b>18M5W7D</b>
	<b>27</b>	<b>1710.7 - 1754.3</b>	<b>0.4613</b>	<b>0.0031 PM</b>	<b>1M10W7D</b>
	<b>27</b>	<b>704.0 - 711.0</b>	<b>0.0382</b>	<b>0.0076 PM</b>	<b>9M05G7D</b>
	<b>27</b>	<b>704.0 - 711.0</b>	<b>0.0298</b>	<b>0.0076 PM</b>	<b>9M01W7D</b>
	<b>27</b>	<b>700.5 - 714.5</b>	<b>0.0315</b>	<b>0.0076 PM</b>	<b>2M72W7D</b>
	<b>27</b>	<b>1720.0 - 1770.0</b>	<b>0.5875</b>	<b>0.0025 PM</b>	<b>18M4G7D</b>
	<b>27</b>	<b>1720.0 - 1770.0</b>	<b>0.4634</b>	<b>0.0025 PM</b>	<b>18M2W7D</b>

Output Power is EIRP and ERP for above and below 1 GHz, respectively. SAR compliance for body-worn operating configurations is limited belt-clips and holsters that have no metallic components in the assembly and cause the device to operate with the minimum separation distance of 1.0 cm, as described in this filing. The highest reported SAR for product specific (wireless router), simultaneous transmission and product specific (10g SAR) exposure conditions are 0.58 W/kg, 1.09 W/kg and 1.35 W/kg, respectively. This device supports LTE of 1.4, 3, 5, 10, 15 and 20 MHz bandwidth modes for FDD LTE Bands 2, 4 and 66; and LTE of 1.4, 3, 5 and 10 MHz bandwidth modes for FDD LTE Band 12. This device contains functions that are not operational in U.S. Territories; this filing is applicable only for U.S. operations.



Dear Elo Touch Solutions, Inc.:

We have reviewed the test report and related documents, and are pleased to advise that this device meets our procedural and specification requirements for certification. The field offices have been notified.

The assigned certification number and the model number must be shown on each equipment model. This certification identification information may be shown on the equipment model identification plate or on a separate label that shall be indelible and tamper proof. The certification number shall be prefixed with the letters "IC:". Radio equipment is certified as described on the attached certification certificate.

Certificate(s) are attached for the following HVIN/ model(s):  
EMC0550

Please feel free to contact us if you have any questions or comments.

Sincerely,

*Timco Engineering, Inc.*

# TIMCO ENGINEERING, INC.

849 NW State Road 45  
Newberry, Florida 32669  
[www.timcoengr.com](http://www.timcoengr.com)  
(352) 472-5500 [CB@timcoengr.com](mailto:CB@timcoengr.com)

January 7, 2021

Job Number: 5087-20  
Radio Cert. No.: IC: 10757B-EMC0550C

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

Dear Elo Touch Solutions, Inc.:

We have reviewed the test report and related documents, and are pleased to advise that this device meets our procedural and specification requirements for certification. The field offices have been notified.

The assigned certification number and the model number must be shown on each equipment model. This certification identification information may be shown on the equipment model identification plate or on a separate label that shall be indelible and tamper proof. The certification number shall be prefixed with the letters "IC:". Radio equipment is certified as described on the attached certification certificate.

Certificate(s) are attached for the following HVIN/ model(s):  
EMC0550C

Please feel free to contact us if you have any questions or comments.

Sincerely,

*Timco Engineering, Inc.*

## Canadian Certification

## JAPAN MIC

### TYPE CERTIFICATION FOR RADIO EQUIPMENT

### CERTIFICATE NUMBER 217-210042

#### CERTIFICATE HOLDER

<b>Company Name</b>	:	Elo Touch Solutions, Inc.
<b>Postal Address</b>	:	670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, United States
<b>Representative Name</b>	:	

#### PRODUCT DESCRIPTION

<b>Manufacturer Name</b>	:	Elo Touch Solutions, Inc.
<b>Product Name</b>	:	Handheld wireless data terminal
<b>Model Number(s)</b>	:	EMC0550
<b>Trademark/Trade Name</b>	:	ELO

#### PRODUCT SPECIFICATIONS


<b>Type of radio equipment:</b> Low power data communication system in 2.4GHz band								
<b>Category of the Specified Radio Equipment (Certification Ordinance):</b> Article 2 Paragraph 1 Item 19								
Technology	Necessary Bandwidth	Class of Emissions	Frequency Range (MHz) Lowest - Highest		Channel Spacing (MHz)	No. of Channel	Antenna Output Power	Antenna Type/Gain
BT-BR	78M7	F1D, G1D	2402	2480	1 MHz	79	0.42954 mW/MHz	PiFA, gain 1.84dBi
BT-EDR	78M8	F1D, G1D	2402	2480	1 MHz	79	0.42954 mW/MHz	PiFA, gain 1.84dBi
BLE	2M19	F1D	2402	2480	2 MHz	40	4.29536 mW	PiFA, gain 1.84dBi
802.11b	14M1	G1D	2412	2472	5 MHz	13	9.33254 mW/MHz	PiFA, Max gain 2.41dBi
802.11g	16M7	G1D, D1D	2412	2472	5 MHz	13	6.33870 mW/MHz	PiFA, Max gain 2.41dBi
n(HT20), VHT20	17M9	G1D, D1D	2412	2472	5 MHz	13	6.33870 mW/MHz	PiFA, Max gain 2.41dBi
802.11n(HT40), VHT40	36M7	G1D, D1D	2422	2462	5 MHz	9	2.29087 mW/MHz	PiFA, Max gain 2.41dBi

<b>Type of radio equipment:</b> Low power data communication system in 5GHz band (W52), (W53)								
<b>Category of the Specified Radio Equipment (Certification Ordinance):</b> Article 2 Paragraph 1 Item 19-3								
Technology	Necessary Bandwidth	Class of Emissions	Frequency Range (MHz) Lowest - Highest		Channel Spacing (MHz)	No. of Channel	Antenna Output Power	Antenna Type/Gain
802.11a	16M7	G1D, D1D	5180	5240	20 MHz	4	4.83059 mW/MHz	PiFA, Max gain 4.25dBi
802.11n(HT20), ac(VHT20)	17M9	G1D, D1D	5180	5240	20 MHz	4	4.83059 mW/MHz	PiFA, Max gain 4.25dBi
802.11n(HT40), ac(VHT40)	36M6	G1D, D1D	5190	5230	40 MHz	2	1.62930 mW/MHz	PiFA, Max gain 4.25dBi
802.11ac(VHT80)	75M8	G1D, D1D	5210	5210	80 MHz	1	0.90782 mW/MHz	PiFA, Max gain 4.25dBi
802.11a	16M7	G1D, D1D	5260	5320	20 MHz	4	4.83059 mW/MHz	PiFA, Max gain 4.51dBi
802.11n(HT20), ac(VHT20)	17M9	G1D, D1D	5260	5320	20 MHz	4	4.83059 mW/MHz	PiFA, Max gain 4.51dBi

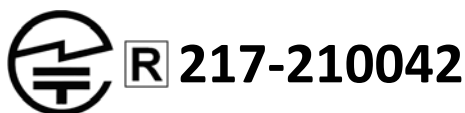
802.11n(HT40), ac(VHT40)	36M6	G1D, D1D	5270	5310	40 MHz	2	1.62930 mW/MHz	PIFA, Max gain 4.51dBi
802.11ac(VHT80)	75M8	G1D, D1D	5290	5290	80 MHz	1	0.90782 mW/MHz	PIFA, Max gain 4.51dBi
802.11a	16M7	G1D, D1D	5500	5700	20 MHz	11	5.59758 mW/MHz	PIFA, Max gain 4.78dBi
802.11n(HT20), ac(VHT20)	17M9	G1D, D1D	5500	5700	20 MHz	11	5.59758 mW/MHz	PIFA, Max gain 4.78dBi
802.11n(HT40), ac(VHT40)	36M6	G1D, D1D	5510	5670	40 MHz	5	1.62555 mW/MHz	PIFA, Max gain 4.78dBi
802.11ac(VHT80)	75M9	G1D, D1D	5530	5610	80 MHz	2	0.97499 mW/MHz	PIFA, Max gain 4.78dBi

Based on the evidence presented in the Technical Documentation, TIMCO Engineering, Inc., as a Registered Certification Body (217) recognized by Japan MIC, declares that the listed product is in conformity with the Technical Regulations Conformity Certification of Specified Radio Equipment, and the following Technical Specifications:

#### RECOGNIZED CERTIFICATION BODY

<b>Certificate issued by</b>	:	TIMCO Engineering, Inc. (217)						
<b>Name and Signature</b>	:	Bruno Clavier		Date:	January 27, 2021			

The products placed on the Japanese market must bear the following marking:



This certificate is limited to products that are identical to the type assessed for this application for certification and is issued under the provision that TIMCO Engineering Inc. nor its subsidiary companies accept any liability concerning the contents of this document other than forced by law. Reproduction of the Certificate (with Annex) in full is allowed. Reproduction of parts of this certificate may only be allowed by written permission of TIMCO Engineering, Inc.

**JAPAN MIC**  
**TYPE CERTIFICATION FOR TELECOMMUNICATION TERMINAL EQUIPMENT**  
**CERTIFICATE NUMBER D210042217**

**CERTIFICATE HOLDER:**

<b>Company Name</b>	:	Elo Touch Solutions, Inc.
<b>Postal Address</b>	:	670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, United States
<b>Representative Name</b>	:	

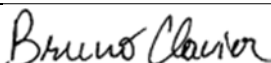
**PRODUCT DESCRIPTION**

<b>Product Name</b>	:	Handheld wireless data terminal
<b>Manufacturer Name</b>	:	Elo Touch Solutions, Inc.
<b>Trademark/Trade Name</b>	:	ELO
<b>Model Number(s)</b>	:	EMC0550

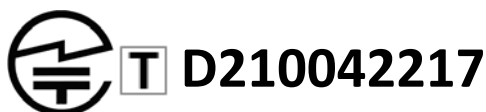
Based on the evidence presented in the Technical Documentation, TIMCO Engineering, Inc., as a Registered Certification Body (217) recognized by Japan MIC, declares that the listed product is in conformity with the Certification by Type of the Ordinance Concerning Terminal Facilities, etc. (Ministerial Ordinance of the Ministry of Post and Telecommunications No. 31 of April 1, 1985 as amended by Ministerial Ordinance No. 12 of March 1, 2019):

Type of Terminal Equipment	Signal	Category of the Specified Terminal Equipment
Terminal equipment connected to dedicated data line facility or digital data transmission facility	D	Article 3, 4, 6, and Article 9

**RECOGNIZED CERTIFICATION BODY**

<b>Certificate issued by</b>	:	TIMCO Engineering, Inc. (217)
<b>Name and Signature</b>	:	Bruno Clavier  Date : January 27, 2021

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## Masahiro Tsumura

---

差出人: aplimgr@vcci.jp  
送信日時: 2021年3月11日木曜日 14:12  
宛先: Masahiro Tsumura  
件名: [VCCI Report of compliance]Certification of report

---

### Report of Compliance

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Report of Compliance has been accepted.

---

Report No.:2020087811

Acceptance No.:2020061574

<Contact person's information>

<Member's profile>

Member number:797

Company name:タッチパネル・システムズ株式会社

Address:神奈川県横浜市港北区新横浜 1-19-20 SUN HAMADA BLDG2F <Responsible person>

Department:製品企画部

Name:津村 昌弘

E-mail:masahiro.tsumura@elotouch.com

<Contact person>

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

Department:製品企画部

Name:津村

Phone:045-478-2161

FAX:045-478-2180

E-mail:masahiro.tsumura@elotouch.com

<Recipient of Acceptance Notice>

Department:製品企画部

E-mail:masahiro.tsumura@elotouch.com

Applied VCCI Rule:VCCI 32-1

Reporting type:new

General Name of Equipment:モバイル PC

Classification of Equipment and classification code:Class B / Classification code c2 Product type  
(Model No.):Elo Touch Solutions  
EMC0550  
<Brand(1)>

Name of the brand supplier:  
Member number of the supplier:  
Product type (Model No.) of the branded Equipment:  
<Brand(2)>

Name of the brand supplier:  
Member number of the supplier:  
Product type (Model No.) of the branded Equipment:  
<Brand(3)>

Name of the brand supplier:  
Member number of the supplier:  
Product type (Model No.) of the branded Equipment:  
<Brand(4)>

Name of the brand supplier:  
Member number of the supplier:  
Product type (Model No.) of the branded Equipment:  
<Brand(5)>

Name of the brand supplier:  
Member number of the supplier:  
Product type (Model No.) of the branded Equipment:  
Member number of a test laboratory:466 Sporton International Inc.  
Name of the testing laboratory:  
<Measurement facility registration number> 1. Radiated EMI measurement below 1GHz facility:R-12012 (10m) 2. Radiated EMI measurement above 1GHz facility:G-20066 (3m) 3. Mains port conducted EMI measurement facility:C-11393 4. Wired network port and other port Conducted EMI measurement facility: 通信ポートを持たないため  
5. Article 15 registered laboratory:  
6. This compliance verification test was conducted at the installation site of users.:  
Date of testing:2020-11-29 2020-12-25  
Serial No. of the test report:JV072404-07 Reason for addition/modification:

VCCI comment:  
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VCCI Council

URL :

<https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.vcci.jp%2F&data=04%7C01%7Cmasahiro.tsumura%40elotouch.com%7C9c5359324ca941dd061208d8e44c3869%7C5a057f852a504ea9b91e4e8ec4b2e549%7C1%7C0%7C637510363311076663%7CUnknown%7CTWFPbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1haWwiLCJXVCi6Mn0%3D%7C1000&sdata=3CihfhK2bgU4QRT32tzgSB00jFaT8TEZfTLVgSzE2V8%3D&reserved=0>

E-mail : aplimgr@vcci.jp





# 中国国家强制性产品认证证书

证书编号: 2021010902396495

发证日期: 2021年06月11日

有效期至: 2026年06月11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 便携式计算机  
EMC0550 : DC5V,3A ( 电源适配器 : BQ018-090200CXX )

产品标准和  
技术要求 GB 17625.1-2012;GB 4943.1-2011;GB/T 9254-2008

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: 陆杨

## 中国质量认证中心



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

**CERTIFICATE NO.:** 2021010902396495

**Valid from:** Jun.11,2021

**Valid until:** Jun.11,2026

**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)** Handheld wireless data terminal  
EMC0550 : DC5V,3A ( Adaptor : BQ018-090200CXX )

**STANDARDS AND TECHNICAL REQUIREMENTS** GB 17625.1-2012;GB 4943.1-2011;GB/T 9254-2008

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](http://www.cnca.gov.cn)



SIGNATURE:

陆杨

**CHINA QUALITY CERTIFICATION CENTRE**

**无线电发射设备**  
**Radio Transmission Equipment**  
**型号核准证**  
**Type Approval Certificate**

美国 ELO TOUCH SOLUTIONS, INC. :

**根据《中华人民共和国无线电管理**  
**In accordance with the provisions on the Radio**  
**条例》，经审查，下列无线电发射设备**  
**Regulations of the People's Republic of China , the following**  
**符合中华人民共和国无线电管理规定和**  
**radio transmission equipment , after examination , conforms**  
**技术标准，其核准代码为：CMIIT ID:2021AJ5455**  
**to the provisions with its CMIIT ID:**

备注:根据无线电管理相关技术要求更新情况,须保证产品持续符合无线电管理的相关要求。

有效期: 五年  
Validity



Sealed by issuing authority

2021 05月 14日

Year Month Date



编号: 2021-5455  
Number

设备名称: 5.8GHz/5.1GHz/2.4GHz无线局域网/蓝牙设备  
Equipment Name

设备型号: EMC0550  
Equipment Type

主要功能: 数据传输  
Main Functions

调制方式: BPSK/QPSK/16QAM/64QAM/256QAM/DBPSK/DQPSK/CCK  
Modulation Mode GFSK  $\pi/4$ -DQPSK 8DPSK

主要技术参数及其指标值:  
Main Technical Parameters

5725-5850MHz 5150-5350MHz 2400-2483.5MHz

频率范围:  
Frequency Range

频率容限:  $\leq 20\text{ppm}$   
Frequency Tolerance

发射功率:  $\leq 33\text{dBm (EIRP)}$   $\leq 23\text{dBm (EIRP)}$   
Transmitting Power  $\leq 20\text{dBm (EIRP)}$

占用带宽:  $\leq 80\text{MHz}$   $\leq 80\text{MHz}$   
Occupied Bandwidth  $\leq 40\text{MHz}$   $\leq 3\text{MHz}$

杂散发射限值:  $\leq -30\text{dBm}$   
Spurious Emission Limits

(核发单位章)  
Sealed by issuing authority  
2021 05月 14日  
Year Month Date