

Notified Body

EU Type Examination Certificate

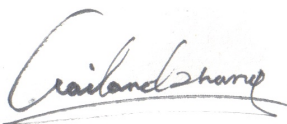
Manufacturer company name: Compex System Pte Ltd
Manufacturer address: No:9 Harrison Road, Harrison Industrial Building, #05-1, Singapore 369651
Description of the radio equipment: 802.11ac Dual Band Module
Trade name/brand name: COMPEX
Model/type indication: WLE900VX, WLE900VX-I
Software version: 1.01
Hardware version: v2.4.20_b170703
Frequency bands of operation: 412 MHz to 2472
2422 MHz to 2462 MHz (HT40)
5180 MHz to 5240 MHz
5190 MHz to 5230 MHz (V)HT40 for 11 n/ac
5210 MHz (VHT80), for 11ac
5260 MHz to 5320 MHz
5270 MHz to 5310 MHz (V)HT40 for 11 n/ac
5290 MHz (VHT80), for 11ac
5500 MHz to 5700 MHz
5510 MHz to 5670 MHz (V)HT40 for 11 n/ac
5530 MHz to 5610 MHz (VHT80), for 11ac
5745 MHz to 5825 MHz
TD reference: WLE900VX
ACB project number: ATCB021701
Certificate number: ATCB021701, Issue 1

ACB, Inc. is designated as a Notified Body under the
U.S.-EU Mutual Recognition Agreement for Radio Equipment Directive 2014/53/EU

ACB, Inc.
Notified Body Number 1588
6731 Whittier Avenue, Suite C110
McLean, VA 22101, USA

In the opinion of ACB, Inc., the examination of the technical documentation as drawn up by the manufacturer demonstrates that the essential requirements of Article 3.1a, Article 3.1b and Article 3.2, of Radio Equipment Directive 2014/53/EU have been met. The conformity assessment on the radio equipment listed above and as described in Annex 1 to this EU-type examination certificate has been carried out in accordance with Annex III, Module B, of Radio Equipment Directive 2014/53/EU. This EU-type examination certificate relates only to the documents as provided to ACB, Inc.

A list of documentation forming the basis for the EU-type examination is provided in
Annex 2 to this EU-type examination certificate.



Notified Body: Wailand Zhang

08 September 2017
Date



Annex 1 to EU-type examination certificate for Radio Equipment Directive 2014/53/EU

Date of issue: 08 September 2017

TD reference: WLE900VX

ACB project number/certificate number: ATCB021701

The radio equipment as described and documented in the technical documentation as drawn up by the manufacturer is an 802.11ac Dual Band Module.

It supports IEEE 802.11b/g/n (HT20 & HT40) Wireless LAN technology in the 2.4 GHz band.

It supports IEEE 802.11a/n/ac [(V)HT20, (V)HT40 and VHT80] Wireless Local Area Network in the 5 GHz bands.

This device is limited to indoor use when operated in the frequency range of 5150 MHz to 5350 MHz.

This device will only be used in the fixed installation environment.

For RF Exposure, the module was assessed for use at more than 20 cm from the body. When installing this module permanently into a host product to create a new Radio Equipment Directive device; the manufacturer responsible for the final product must assess if the combination of this module and the host equipment complies with the essential requirements of the RE Directive 2014/53/EU.

Details of operation:

Description of service:

IEEE 802.11bgn WLAN

Transmitter Frequency band(s)

2412 MHz to 2472
2422 MHz to 2462 MHz (HT40)

Receiver Frequency band(s)

2412 MHz to 2472
2422 MHz to 2462 MHz (HT40)

Type of modulation

DSSS, OFDM

Transmit power

19.9 dBm, e.i.r.p.

Description of service:

IEEE 802.11a/n, IEEE 802.11ac WLAN

Transmitter Frequency band(s)

5180 MHz to 5240 MHz
5190 MHz to 5230 MHz (V)HT40 for 11 n/ac
5210 MHz (VHT80), for 11ac

Receiver Frequency band(s)

5180 MHz to 5240 MHz
5190 MHz to 5230 MHz (V)HT40 for 11 n/ac
5210 MHz (VHT80), for 11ac

Type of modulation

OFDM

Transmit power

22.9 dBm, e.i.r.p.



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Description of service: **IEEE 802.11a/n, IEEE 802.11ac WLAN**
5260 MHz to 5320 MHz
Transmitter Frequency band(s) 5270 MHz to 5310 MHz (V)HT40 for 11 n/ac
5290 MHz (VHT80), for 11ac
5260 MHz to 5320 MHz
Receiver Frequency band(s) 5270 MHz to 5310 MHz (V)HT40 for 11 n/ac
5290 MHz (VHT80), for 11ac
Type of modulation OFDM
Transmit power 22.9 dBm, e.i.r.p.

Description of service: **IEEE 802.11a/n, IEEE 802.11ac WLAN**
5500 MHz to 5700 MHz
Transmitter Frequency band(s) 5510 MHz to 5670 MHz (V)HT40 for 11 n/ac
5530 MHz to 5610 MHz (VHT80), for 11ac
5500 MHz to 5700 MHz
Receiver Frequency band(s) 5510 MHz to 5670 MHz (V)HT40 for 11 n/ac
5530 MHz to 5610 MHz (VHT80), for 11ac
Type of modulation OFDM
Transmit power 29.89 dBm, e.i.r.p.

Description of service: **IEEE 802.11a/n, IEEE 802.11ac WLAN**
Transmitter Frequency band(s) 5745 MHz to 5825 MHz
Receiver Frequency band(s) 5745 MHz to 5825 MHz
Type of modulation OFDM
Transmit power 26.9 dBm, e.i.r.p.



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- 1 Test report:
- | | Report number: | Dated: |
|----------------|----------------|-----------------|
| EMC | 1503RSU03010 | 03 March 2017 |
| EMC | 1706RSU03101 | 11 July 2017 |
| Radio | 1612RSU02301 | 14 January 2017 |
| Radio | 1706RSU03102 | 11 July 2017 |
| Radio | 1612RSU02302 | 14 January 2017 |
| Radio | 1706RSU03103 | 11 July 2017 |
| Radio | 1612RSU02304 | 14 January 2017 |
| Radio | 1706RSU03103 | 11 July 2017 |
| Radio | 1612RSU02305 | 04 March 2017 |
| Radio | 1706RSU03105 | 11 July 2017 |
| Radio | 1612RSU02306 | 04 March 2017 |
| Radio | 1706RSU03106 | 11 July 2017 |
| RF Safety | 1612RSU02303 | 14 January 2017 |
| Product Safety | 1550393R-S | 21 May 2015 |
- 2 Technical documentation provided:
- | | | |
|--|-------------------------|------------------------------|
| Antenna details | Block diagram | Circuit diagram/schematics |
| Circuit diagram/schematics | External photographs | External photographs |
| Label drawing/location | Operational description | Test reports |
| Test set-up photographs | User manual | EU declaration of conformity |
| Description of environmental limitations | | |
- 3 Standards used to demonstrate conformity with the essential requirements of Radio Equipment Directive 2014/53/EU:
- | | |
|--------------------------------|---|
| Radio spectrum (Article 3.2): | EN 300 328 V2.1.1
EN 301 893 V2.1.1
EN 302 502 V2.1.1 |
| EMC (Article 3.1b): | EN 301 489-1 V2.2.0
EN 301 489-17 V3.2.0 |
| RF safety (Article 3.1a): | EN 62311:2008 |
| Product safety (Article 3.1a): | EN 60950-1:2006+A11:2009+A12:2011+A2:2013 |



- 4 Additional information:
This is a Class 2 device.

Radio Equipment Directive 2014/53/EU, Article 10.4: Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Directive 2014/53/EU, Article 10.6: Manufacturers shall ensure that radio equipment which they have placed on the market bears a type, batch or serial number or other element allowing its identification, or, where the size or nature of the radio equipment does not allow it, that the required information is provided on the packaging, or in a document accompanying the radio equipment.

Radio Equipment Directive 2014/53/EU, Article 10.7: Manufacturers shall indicate on the radio equipment their name, registered trade name or registered trade mark and the postal address at which they can be contacted or, where the size or nature of radio equipment does not allow it, on its packaging, or in a document accompanying the radio equipment. The address shall indicate a single point at which the manufacturer can be contacted. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

Radio Equipment Directive 2014/53/EU, Article 10.8: Manufacturers shall ensure that the radio equipment is accompanied by instructions and safety information in a language which can be easily understood by consumers and other end-users, as determined by the Member State concerned. Instructions shall include the information required to use radio equipment in accordance with its intended use. Such information shall include, where applicable, a description of accessories and components, including software, which allow the radio equipment to operate as intended. Such instructions and safety information, as well as any labelling, shall be clear, understandable and intelligible.

The following information shall also be included in the case of radio equipment intentionally emitting radio waves:

- (a) frequency band(s) in which the radio equipment operates;
- (b) maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.

Radio Equipment Directive 2014/53/EU, Article 10.9: Manufacturers shall ensure that each item of radio equipment is accompanied by a copy of the EU declaration of conformity or by a simplified EU declaration of conformity. Where a simplified EU declaration of conformity is provided, it shall contain the exact internet address where the full text of the EU declaration of conformity can be obtained.

Radio Equipment Directive 2014/53/EU, Article 10.10: In cases of restrictions on putting into service or of requirements for authorization of use, information available on the packaging shall allow the identification of the Member States or the geographical area within a Member State where restrictions on putting into service or requirements for authorization of use exist. Such information shall be completed in the instructions accompanying the radio equipment.

Radio Equipment Directive 2014/53/EU, Article 19.2: On account of the nature of radio equipment, the height of the CE marking affixed to radio equipment may be lower than 5 mm, provided that it remains visible and legible.

Radio Equipment Directive 2014/53/EU, Article 20.1: The CE marking shall be affixed visibly, legibly and indelibly to the radio equipment or to its data plate, unless that is not possible or not warranted on account of the nature of radio equipment. The CE marking shall also be affixed visibly and legibly to the packaging.



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Radio Equipment Directive 2014/53/EU, Annex III, Module B.7: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate.

This review includes draft standards, deviations from the standards and technical justification for compliance.

In accordance with Notified Body guidance; if there are no changes, a Notified Body EU type examination certificate has a validity of 10 years from the date of issue.

5 Contact information:

For contact with ACB or questions regarding this EU-type examination certificate:

Web: www.acbcert.com

<http://acbcert.com/contact>

Tel.: (+1) 703 847 4700

