COMMSCOPE®
RUCKUS WIRELESS™

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EU Declaration of Conformity

CE

This declaration of conformity is issued under the sole responsibility of the manufacturer:
Ruckus Wireless, Inc., 350 West Java Drive Sunnyvale, CA 94089 USA

Object of declaration

Product Name: T310s Access Point
Brand: RUCKUS
Model: T310s

The object of the declaration described above is in conformity with the relevant Union harmonization legislation: Radio Equipment Directive 2014/53/EU and the RoHS directive 2011/65/EU

The product to which this declaration relates is in conformity with the following standards:

Safety
IEC 62368-1:2014 2nd Ed.
EN 62368-1:2014, AC:2017, A11:2017
EN 60950-22:2016
IEC 60950-1:2005, A1:2009, A2:2013
EN 60950-1: 2006 /A11:2009
/A1:2010/A12:2011 /A2:2013

EMF
EN 62311:2008

EMC
EN 301 489-1 V2.2.0
EN 301 489-17 V3.2.0

RF
EN 300 328 V2.2.2
EN 301 893 V1.8.1
EN 302 502 V2.1.1

RoHS
EN IEC 63000:2018

Additional Information
EU-Type examination RE-18052218 issued by NB 2200 on 22/05/2018

Signed for and on behalf of Ruckus Wireless Inc.

Signature: 
Name: Ivaylo Tankov
Title: Principal Wireless Compliance Engineering
Email: certifications@commscope.com
Date: 30th March 2021

Note: Find the complete set of AP documentation for all RUCKUS Wi-Fi products at http://docs.commscope.com/?docs-box.

Federal Communications Commission Notices

This product 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.

Caution: Changes or modifications to this equipment that have not been approved by Ruckus Wireless may void the user's authority to operate this equipment.

For Class B Equipment: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

—Increase the separation between the equipment and receiver. - Consult the dealer or an experienced radio/TV technician for help.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: The country code selection is for non-US Products only and is not available on US Products. Per FCC regulation, Wireless product marketed in the US must be restricted to operate only on spectrum allocated per FCC Rules and Regulations.

Canada Statement

Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'ISED, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISED. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This device complies with ISED licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

Le dispositif de fonctionnement dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur pour réduire le risque d'interférences nuisibles à la co-canal systèmes mobiles par satellite, le gain d'antenne maximal autorisé pour les appareils dans les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la pire limite, et le gain d'antenne maximal autorisé pour les appareils dans la bande 5725-5825 MHz doivent être conformes avec le pire limites spécifiées à point-à-ponctuelles et non point-à-point de fonctionnement selon qu'il convient.

Operation in the 5600-5650 MHz band is not allowed in Canada. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Opération dans la bande 5600-5650 MHz n'est pas autorisée au Canada. Haute puissance radars sont désignés comme utilisateurs principaux (c.-à-utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou des dommages à dispositifs LAN-EL.

Radiation Exposure Statement

The device has been found to be compliant to the requirements set forth in CFR 47 Sections 2.1091 and ISED RSS-102 for an uncontrolled environment. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least **20 cm** from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Le dispositif a été jugé conforme aux exigences énoncées dans les articles 47 CFR 2.1091 et ISED RSS-102 pour un environnement non contrôlé. L'antenne (s) utilisée pour ce transmetteur doit être installé pour fournir une distance de séparation d'au moins **20 cm** de toutes les personnes et ne doit pas être co-localisés ou fonctionner en conjonction avec une autre antenne ou transmetteur.

Professionally Installed Products

The product is to be installed according to the installation instructions. The Use/Operator does not have access to the device once the device is installed and in use. Provisions for permanent grounding is provided.

1. Installation personal: This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.
2. Installation location: The product shall be installed at a location where the radiating antenna can be kept 20 cm from nearby person in normal operation condition to meet regulatory RF exposure requirement

a. Any installation of either a master or a client device within 35 km of a TDWR location shall be separated by at least 30 MHz center-to-center) from the TDWR operating frequency.
b. A voluntary WISPA sponsored database has been developed that allows operators and installers to register the location information of the UNII devices operating outdoors in the 5470 – 5725 MHz band within 35 km of any TDWR location (see http://www.spectrumbridge.com/udia/home.aspx). This database may be used by government agencies in order to expedite resolution of any interference to TDWRs.
c. Addition information can be obtained from the FCC Knowledge Database, Publication Number 443999. https://apps.fcc.gov/oetcf/kdb/index.cfm

3. External antenna: Use only the antennas which have been approved by Ruckus Wireless. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC limit and is prohibited.
4. Installation procedure: Please refer to user's manual for the detail.
5. Warning: Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in US Rule CFR 47 part 15 section 15.247 & 15.407. The violation of the rule could lead to serious federal penalty.

Products intended to be powered by an external power supply:
Caution –This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked Class 2 or LPS (sub-clause 2.5 of standard EN 60950-1). Available Ruckus power supplies intended for product operation are identified in the product datasheet. The last two digits of the power supply part number represent the country code. For additional applicable power supplies/options, see user instructions and product datasheet.

Medical Statement
Ruckus Wireless Access Points shall only be used in ME systems where the intended EM ENVIRONMENT does NOT does not rely on the WLAN radio link for BASIC SAFETY or ESSENTIAL PERFORMANCE of the ME SYSTEM.

Mexico Statement
"La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada."

Australia and New Zealand Statement
This device complies with the ACMA requirements for a WiFi device namely Radiocommunications (Short Range Devices) 2014 and Radiocommunications (Compliance Labelling – Devices) Notice 2014 and the New Zealand Radiocommunications Regulations (General User Radio Licence for Short-Range Devices). The equipment complies with the ACMA and New Zealand requirements for radiation exposure for a "general user/non-aware user". This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This equipment complies with the Australian and New Zealand safety requirements and should only be used with the specified power adapter carrying a RCM mark and Electrical Approval No.

Brazil Statement
For Brazil, those products are designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. Regarding the operation on range of 5150 MHz to 5350 MHz, the average output power of the equipment must be adjusted to the maximum limit of - 0,48 dBm and for 5470 MHz to 5725 MHz, the average output power of the equipment must be adjusted to the maximum limit of 6,44 dBm.
Para o Brasil, esses produtos são projetados para aplicações específicas e necessidades a serem instalados por um pessoal qualificado que tenha conhecimento regra RF e afins.Em relação à operação em série de 5150 MHz a 5350 MHz, a potência média de saída dos equipamentos deve ser ajustado para o limite máximo de - 0,48 dBm e para 5470 MHz a 5725 MHz, a potência média de saída dos equipamentos deve ser ajustada ao limite máximo de 6,44 dBm.
Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.
Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causa interferência a sistemas operando em caráter primário

Nigeria Statement
Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

Thailand Statement
This telecommunication equipment conforms to NTC technical requirement

Hong Kong Statement
The 5.15 – 5.35 GHz band shall be restricted to indoor operations only. Obey local regulations when using this product.

Taiwan Statement
使用此產品時應避免影響附近雷達系統之操作 This product should not affect the operation of nearby radar systems.
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾.
The control, adjustment and on/off operation of this device does not violate the "Administrative regulations on low power radio waves radiated devices". Any adjustments to the device should be carried out or be monitored by a specialist who has expertise on radio frequency devices. Replacement of components which may lead to the violation to the regulations is not allowed. Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency devices. The low power radio-frequency device shall not influence aircraft security and interfere with legal communications; if found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Act. The low power radio-frequency devices must not be susceptible with the interference from legal communications or ISM radio wave radiated devices.

限用物質含有情況標示聲明書
Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：無線網路基地台，型號（型式）：T310s
Equipment name Type designation (Type)

單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
Enclosure - Top 頂部外殼	O	O	O	O	O	O
Enclosure - Bottom 底部外殼	O	O	O	O	O	O
PWB 電路板	-	O	O	O	O	O
Connector and Receptacle 插口	O	O	O	O	O	O

備考1. 〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。
Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. 〝O〞係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2：“O” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. 〝-〞係指該項限用物質為排除項目。
Note 3：The “–” indicates that the restricted substance corresponds to the exemption.

Thailand



European Union Notices and National Restrictions

:
Maximum output power:
—2400-2483.5MHz: 19.27dBm EIRP
—5150-5350MHz: 22.48dBm EIRP
—5470-5725MHz: 30.00dBm EIRP

AT	FI	IT	PL	BG	RO
BE	FR	LV	PT	IS	TR
CY	DE	LT	SK	LI	HR
CZ	EL	LU	SI	NO	IE
DK	HU	MT	ES	CH	EE
NL	SE	UK(NI)			

The frequency band 5150 – 5350 MHz is restricted to indoor use.
The frequency band 5725 – 5875 MHz is restricted for use in some EU member states, check local Regulations

Italy - Informazioni sulla sicurezza e restrizioni nazionali

È obbligatoria la conformità ai requisiti di tensione, frequenza e corrente, indicati sull'etichetta del fabbricante. Il collegamento a una fonte di alimentazione diversa da quella specificata potrebbe causare malfunzionamenti, danni alle apparecchiature o rischio di incendi se vengono ignorati i limiti.
Non vi sono parti riparabili dall'operatore in questa apparecchiatura. È necessario che l'assistenza venga fornita soltanto da un tecnico dell'assistenza qualificato.
Questa apparecchiatura viene fornita in dotazione con un cavo di alimentazione staccabile, munito di un cavo di messa per un sistema di protezione integrale, inteso per il collegamento a una presa elettrica con messa a terra.
1. Non sostituire il cavo di alimentazione con un cavo non approvato. Non utilizzare mai un adattatore per il collegamento a una presa a 2 cavi, perché ciò comprometterebbe la continuità della messa a terra.
2. L'apparecchiatura richiede l'uso di un cavo di messa a terra come parte della certificazione di sicurezza. La modifica o l'uso inappropriato possono condurre a rischio di scosse elettriche che potrebbero causare lesioni gravi o morte.
3. Contattare un elettricista qualificato o il produttore per domande relative all'installazione prima di collegare l'apparecchiatura.
4. Un impianto protettivo di messa a terra è fornito dall'adattatore CA in elenco. L'installazione negli edifici deve fornire una protezione di riserva adeguata contro i cortocircuiti.
5. È necessario installare un collegamento di protezione in conformità alle norme e alle direttive locali nazionali in materia di cablaggi.
6. L'utilizzo della gamma di frequenze 5725-5875 MHz è vietato nel territorio italiano.
7. La banda di frequenze 5150-5350 MHz è consentita solo in ambienti interni nel territorio italiano.

Hereby, Ruckus Wireless Inc., declares that the radio equipment type is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address: http://docs.commscope.com/?docs-box

Български [Bulgarian]	С настоящото Ruckus Wireless декларира, че описаното по-горе радиосъоръжение е в съответствие с Директива 2014/53/ЕС. http://docs.commscope.com/?docs-box
Česky [Czech]	Ruckus Wireless tímto prohlašuje, že tento Radio LAN je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU. http://docs.commscope.com/?docs-box
Dansk [Danish]	Undertegnede Ruckus Wireless erklærer herved, at følgende udstyr Radio LAN overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU. http://docs.commscope.com/?docs-box
Deutsch [German]	Hiermit erklärt Ruckus Wireless, dass sich das Gerät Radio LAN in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EU befindet. http://docs.commscope.com/?docs-box
Eesti [Estonian]	Käesolevaga kinnitab Ruckus Wireless seadme Radio LAN vastavust direktiivi 2014/53/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele. http://docs.commscope.com/?docs-box
English	Hereby, Ruckus Wireless declares that this Radio LAN is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. http://docs.commscope.com/?docs-box
Español [Spanish]	Por medio de la presente Ruckus Wireless declara que el Radio LAN cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU. http://docs.commscope.com/?docs-box
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ruckus Wireless ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/ΕU. http://docs.commscope.com/?docs-box
Français [French]	Par la présente Ruckus Wireless déclare que l'appareil Radio LAN est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU. http://docs.commscope.com/?docs-box
Italiano [Italian]	Con la presente Ruckus Wireless dichiara che questo Radio LAN è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU. http://docs.commscope.com/?docs-box
Latviski [Latvian]	Ar šo Ruckus Wireless deklarē, ka Radio LAN atbilst Direktīvas 2014/53/EU būtiskajām prasībām un citiem ar to saistītajiem noteikumiem. http://docs.commscope.com/?docs-box
Lietuvių [Lithuanian]	Šiuo Ruckus Wireless deklaruoja, kad šis Radio LAN atitinka esminius reikalavimus ir kitas 2014/53/EU Direktyvos nuostatas. http://docs.commscope.com/?docs-box
Nederlands [Dutch]	Hierbij verklaart Ruckus Wireless dat het toestel Radio LAN in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU. http://docs.commscope.com/?docs-box
Malti [Maltese]	Hawnhekk, Ruckus Wireless, jiddikjara li dan Radio LAN jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2014/53/EU. http://docs.commscope.com/?docs-box
Magyar [Hungarian]	Alulírott, Ruckus Wireless nyilatkozom, hogy a Radio LAN megfelel a vonatkozó alapvetõ követelményeknek és az 2014/53/EU irányelv egyéb elõírásainak. http://docs.commscope.com/?docs-box
Polski [Polish]	Niniejszym Ruckus Wireless oświadcza, że Radio LAN jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2014/53/EU. http://docs.commscope.com/?docs-box
Português [Portuguese]	Ruckus Wireless declara que este Radio LAN está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU. http://docs.commscope.com/?docs-box
Slovensko [Slovenian]	Ruckus Wireless izjavlja, da je ta Radio LAN v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 2014/53/EU. http://docs.commscope.com/?docs-box
Slovensky [Slovak]	Ruckus Wireless týmto vyhlasuje, že Radio LAN spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EU. http://docs.commscope.com/?docs-box
Suomi [Finnish]	Ruckus Wireless vakuuttaa täten että Radio LAN tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. http://docs.commscope.com/?docs-box
Svenska [Swedish]	Härmed intygar Ruckus Wireless att denna Radio LAN står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU. http://docs.commscope.com/?docs-box
Íslenska [Icelandic]	Hér með lýsir Ruckus Wireless yfir því að Radio LAN er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/53/EU. http://docs.commscope.com/?docs-box
Norsk [Norwegian]	Ruckus Wireless erklærer herved at utstyret Radio LAN er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/EU. http://docs.commscope.com/?docs-box

T310s, Access Point Installation Addendum

When the frequency band 5150 – 5250 MHz is used outdoors in the U.S.A, the FCC mandates that the energy radiated above 30° from the horizon remains below 21 dBm EIRP. This can be maintained during installation using the following guidance.

When the device is installed level to the horizon, (i.e. – device perpendicular to the surface of the earth, antenna radome pointing horizontal, parallel to the earth), the device operates in compliance with FCC rules without any adjustment of output power.

T310s – Antennas

When the device is installed outdoors and antenna pattern cover sector above the horizon, it may be necessary to reduce output power to ensure the energy radiated above 30° from the horizon remains under 21 dBm EIRP. Please use table provided.

Degree Above Horizon (A)	Output Power Reduction (dBm)
A <=12	0 dBm
12 < A <15	1 dBm
15 <= A < 30	3 dBm
30 <= A < 45	6 dBm
A > 45	7dB