Príloha č. 4: Technické listy dodávaných aktívnych prvkov

T350 Technical Specifications: Certifications

Feature	T350c	T350d	T350se		
Quality Systems	ISO 9001:2015	ISO14001:2015			
T350 MTTF (MTBF)	Per Telcordia SR-332 Issue 4 Method I 3,623,115 hrs @ 25C 90% UCL				
ECCN	5A992				
Country of Origin	Taiwan, China				



Business Unit - Ruckus Wireless Inc. 350 West Java Dr. Sunnyvale CA 94089 USA T: +1 650 265 4200 F: +1 408 738 2065 www.commscope.com

EU Declaration of Conformity

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

Object of declaration

Product Name:

T350d & T350c Access Point

Brand:

RUCKUS

Model:

T350d & T350c

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:

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

EN 50385 2017

EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

EN 300 328 V2.2.2

EN 301 893 V2.1.1

EN 302 502 V2.1.1

RoHS

EN IEC 63000:2018

Additional Information

EU-Type examination issued by NB

Signed for and on behalf of Ruckus Wireless Inc.

Signature:

Name:

Ivaylo Tankov

Title:

Principal Wireless Compliance Engineering

Email: certifications@commscope.com

Date:

12 September 2021



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

T350d, T350c – Outdoor Enterprise AP

Ruckus Wireless Inc., a CommScope Company

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:

Note: 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 colocated 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.-å-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.
- 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.
 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.
- Addition information can be obtained from the FCC Knowledge Database, Publication Number 443999.
- https://apps.fcc.qov/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.

"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

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

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頗率、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):T350d & T350c Equipment name Type designation (Type) 限用物質及其化學符號 Restricted substances and its chemical symbols 單元Unit 多溴聯苯 多溴二苯醚 六價鉻Hexavalent 汞Mercury 鏡Cadmium 鉛Lead (Pb) Polybrominated Polybrominated (Hg) (Cd) chromium (Cr+6) Biphenyls (PBB) diphenyl ethers (PBDE) Enclosure - Top O O O 0 \circ 頂部外殼 Enclosure - Bottom O 0 O O 0 O 底部外殼 PWB O 0 O 0 O 電路板 Connector and Receptacle O 0 O O 0 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.

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



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว็บ ไม่ต้องได้ รับในอนุญาคให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม หรือตั้งสถาบีวิทยุคมนาคม เรียง เครื่องวิทยคมนาคม และสถานีวิทย คมนาคมที่ได้รับยกเว็นไม่ต้องได้รับใบธนุญาต วิทยุกมนาคมตามพระราชบัญญัติวิทยุคมนาคม W.ff. 2498



nand. Instructed กำกับดูแลเพื่อประชาชน Call Genter (200 (โกรพรี)

European Union Notices and National Restrictions

Maximum output power:

-2400-2483.5MHz: 19.9dBm EIRP -5150-5250MHz: 22.9dBm EIRP

---5250-5350MHz: 22.9dBm EIRP ---5470-5725MHz: 29.9dBm 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(I	VI)		



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

Hereby, Ruckus Wire The full text of the El	eless Inc., declares that the radio equipment type is in compliance with Directive 2014/53/EU. J 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/EC. http://docs.com/scope.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.com/scope.com/?docs-box			
Ελληνική [Greek]	ME THN ΠΑΡΟΥΣΑ Ruckus Wireless ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΉΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU. 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 alapvető követelményeknek és az 2014/53/EU irányelv egyéb előírásainak. 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			

T350d & T350c, 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.

T350d & T350c - Antennas

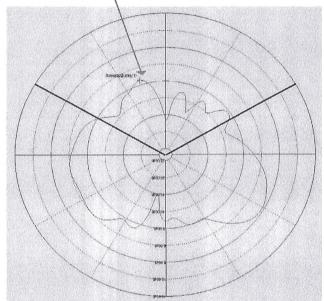
When the device is installed outdoors at an angle above the horizon, it may be necessary to reduce output power to ensure the energy radiated

the energy radiated above 30° from the horizon remains under 21 dBm EIRP. Please see table and elevation plots below.

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

T350d & T350c Omni Antenna

Elevation Pattern: The highest gain is -3.7dBi above 30° to 150°







Ruckus Wireless Standard End of Life (EOL) Policy

Revision date: 20 December 2013

The following EOL policy applies to all Ruckus Wireless standard products. Figure 1 illustrates Ruckus Wireless Standard EOL Policy timeframe. Detailed dates outlining the timeframes set forth in this policy will be clearly outlined in each product's EOL notification.

Hardware

Ruckus Wireless will publish an end-of-life (EOL) notification to customers to give them advanced notice of a planned end-of-sale (EOS) event on a specific product. Customers will be provided an opportunity for last-time purchases of products prior to end-of-sale.

Standard policy requires the end-of-sale (EOS) date to occur **6 months** after the EOL notification is published on the Ruckus Wireless support site (support.ruckuswireless.com). At the EOS date, the discontinued product is removed from the price list and is no longer available for purchase. All accessories, kits and bundles uniquely applicable to the discontinued product may also be removed from the price list and may no longer available for purchase.

The last ship date for a discontinued product may extend to **6 months** after the EOS date. The last ship date excludes transportation considerations.

The last hardware repair/replace and support for advanced hardware replacement date for discontinued products is **5 years** after the EOS date. The replacement or advanced hardware replacement of discontinued product after the EOS may be product of a like-kind.

Software

Standard policy requires software maintenance for the discontinued product to continue until the end-of-maintenance (EOM) date, which occurs **1** year after the product end-of-sale (EOS) date.

This EOL policy does not ensure that software maintenance for a discontinued product will always follow an EOL announcement. Mature products may use software for which no active maintenance has occurred for some time and for which no further active maintenance is planned. While typically the exception, Ruckus reserves the right to establish an end-of-maintenance date for products prior to the EOL announcement.





Support & License Upgrades

Ruckus Support and AP license upgrades are available for discontinued products for up to **5 years** after the EOS date. End-of-sale dates for 1-year, 3-year, and 5-year Support packages are timed such that Support shall not extend beyond 5 years after the EOS date of the discontinued product. The end-of-sale date for AP license upgrades for a discontinued controller is 5 years after the EOS date of the controller. Support package and license upgrade EOS dates are clearly defined in the discontinued product's EOL notification.

Support extending beyond the discontinued product's EOM date is limited in nature. Ruckus Support is unable to provide software fixes or upgrades which may be required to resolve support cases after the EOM date. Ruckus will continue to provide all other aspects of support. The customer accepts that a Support Contract for product is limited in terms of software maintenance beyond that product's EOM date. Note that the window of limited support for a discontinued product may be 4 years in duration, starting 1 year after the product's EOS date and ending 5 years after the EOS date.

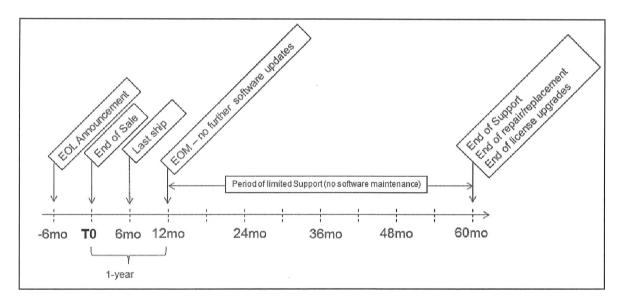


Figure 1. Ruckus Standard End of Life Policy Timeline

THE END

Outdoor 2x2:2 Wi-Fi 6 Access Point





Benefits

SIMPLICITY

RUCKUS' Outdoor APs make Wi-Fi deployments extremely simple to deploy with one-touch technologies like SmartMesh™.

STUNNING WI-FI PERFORMANCE

Extends coverage with patented BeamFlex* + adaptive antenna technology while mitigating interference by utilizing up to 64 directional antenna patterns.

GREAT OUTDOOR WI-FI

Experience high performance outdoor Wi-Fi 6 with IP-67 weather proofing.

MULTIPLE MANAGEMENT OPTIONS

Manage the T350 Series with physical or virtual controller appliances.

SERVE MORE DEVICES

Connect more devices simultaneously with two MU-MIMO spatial streams and concurrent dual-band 2.4/5GHz radios while also enhancing non-11ax device performance.

AUTOMATE OPTIMAL THROUGHPUT

ChannelFly* dynamic channel technology uses machine learning to automatically find the least congested channels. You always get the highest throughput the band can support.

MORE THAN WI-FI

Support services beyond Wi-Fi with <u>RUCKUS IoT Suite</u>. <u>Cloudpath</u> security and onboarding software, <u>SPoT Wi-Fi</u> locationing engine, and <u>SCI</u> network analytics.

Modern Wi-Fi device users expect reliable connectivity—anywhere, anytime. But in crowded outdoor venues with thousands of users and constant RF noise, they are often frustrated by poor coverage, dropped connections, and reduced data rates. These aggravating Wi-Fi experiences can easily translate to negative perceptions of the venue and the service provider, resulting in loss of business. The quality of the network experience becomes the "litmus test" for acceptance or rejection.

As the market leader in outdoor Wi-Fi deployments, RUCKUS knows that one AP solution cannot meet every possible challenge of varied and complex outdoor requirements. This is why the RUCKUS T350 Wi-Fi δ series is designed with more variety than any other outdoor AP in the market today. Available with either internal omni-directional antennas or internal high-gain directional antenna models, the T350 Series uses patented RUCKUS antenna optimization and interference mitigation technologies to improve throughput, connection reliability, and deliver industry-leading Wi-Fi δ performance to every connected client. At the same time, the T350 Series is designed for fast, simple installation with an ultra-lightweight, low profile, IP- δ 7 rated enclosure that can stand up to the most challenging outdoor environments.

At RUCKUS, we know that outdoor AP deployments are especially challenging for installation and maintenance, which is why RUCKUS outdoor APs use a variety of technologies, like SmartMesh that help simplify outdoor AP deployment.

The RUCKUS T350 Series is perfect for high-density outdoor public venues such as airports, convention centers, plazas, malls, smart cities, and other dense urban environments. By providing a superior Wi-Fi experience to every user in high-density outdoor locations, venue operators can improve guest satisfaction and loyalty, deliver new kinds of wireless application services, and increase revenues.

The RUCKUS T350 Series incorporates patented technologies found only in the RUCKUS Wi-Fi portfolio.

- Extended coverage with patented BeamFlex+ utilizing multi-directional antenna patterns.
- Improve throughput with ChannelFly, which dynamically finds less congested Wi-Fi channels to
 use.

Whether you're deploying ten or ten thousand APs, the T350 Series is easy to manage through RUCKUS' appliance and virtual management options.

Outdoor 2x2:2 Wi-Fi 6 Access Point

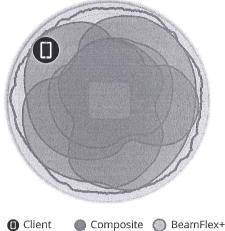
Access Point Antenna Pattern

RUCKUS' BeamFlex+ adaptive antennas allow the T350 AP to dynamically choose among a host of antenna patterns in real-time to establish the best possible connection with every device. This leads to:

- Better Wi-Fi coverage
- · Reduced RF interference

Traditional omni-directional antennas, found in generic access points, oversaturate the environment by needlessly radiating RF signals in all directions. In contrast, the RUCKUS BeamFlex+ adaptive antenna directs the radio signals per-device on a packet by-packet basis to optimize Wi-Fi coverage and capacity in real-time to support high device density environments. BeamFlex+ operates without the need for device feedback and hence can benefit even devices using legacy standards.

Figure 1. Example of BeamFlex+ pattern



Pattern

Figure 2. 2.4GHz Azimuth Antenna Patterns



Figure 3. 5GHz Azimuth Antenna Patterns



Figure 4. 2.4GHz Elevation Antenna Patterns



Figure 5. 5GHz Elevation Antenna Patterns



Note: The outer trace represents the composite RF footprint of all possible BeamFlex+ antenna patterns, while the inner trace represents one BeamFlex+ antenna pattern within the composite outer trace.

Outdoor 2x2:2 Wi-Fi 6 Access Point

WI-FI	
Wi-Fi Standards	• IEEE 802.11a/b/g/n/ac/ax
Supported Rates	 802.11ax: 4 to 1774 Mbps 802.11ac: 6.5 to 867 Mbps 802.11n: 6.5 to 300Mbps 802.11a/g: 6 to 54 Mbps 802.11b: 1 to 11 Mbps
Supported Channels	• 2.4GHz: 1-13 • 5GHz: 36-64, 100-144, 149-165
МІМО	2x2 SU-MIMO 2x2 MU-MIMO
Spatial Streams	2 streams SU/MU MIMO 5GHz 2 streams SU/MU MIMO 2.4GHz
Radio Chains and Streams	2x2:2 (5GHz) 2x2:2 (2.4GHz)
Channelization	• 20, 40, 80MHz
Security	WPA-PSK, WPA-TKIP, WPA2-Personal, WPA2-Enterprise, WPA3-Personal, WPA3-Enterprise, AES, 802.11i, Dynamic PSK, OWE WIPS/WIDS
Other Wi-Fi Features	WMM, Power Save, Tx Beamforming, LDPC, STBC, 802.11r/k/v Hotspot, Hotspot 2.0 Captive Portal WISPr

	T350c	T350d	T350se			
Antenna Type	Internal omnidir- ectional	Internal omnidir- ectional	Internal 120 deg sectorized + N- type female external connectors			
	BeamFlex+ adaptive internal antennas with polarization diversity					
Antenna Gain (max)	Up to 3dBi		2.4GHz: 6dBi 5Ghz: 8dBi			
Peak Transmit Power (Tx port/chain + 3dB Combining gain)	2.4GHz: 26 dBm 5GHz: 25 dBm		2.4GHz: 26dBm 5GHz: 25dBm			
	• ISM (2.4-2.484GHz)					
	• U-NII-1 (5.15-5.25GHz)					
Frequency Bands	• U-NII-2A (5.25-5.35GHz)					
	• U-NII-2C (5.47-5.725GHz)					
	U-NII-3 (5.725-5.85GHz)					

J# 8	720	H	r40	VH	T20	VH	T40
MCS0	MCS7	MCS0	MCS7	MCSO	MCS7	MCS0	MCS7
-97	-78	-94	-75	-97	-78	-94	-75
	HE	20			НЕ	40	
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-97	-78	-73	-67	-94	-75	-70	-64

5GHZ I	RECEIVE	SENSITI	VITY								
	VH	T20			VH	T40			VH	T80	
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MC50	MCS7	MCS8	MCS9
-97	-78	-75	-73	-95	-77	-71	-69	-92	-74	-68	-66
	HE	20			HE	40			HE	80	
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-97	-78	-72	-67	-95	-77	-69	-64	-92	-74	-66	-61

Rate	Pout (dBm)
MCS0 HT20	23
MCS7 HT20	18
MCS8 VHT20	17
MCS9 VHT40	16.5
MCS11 HE40	15

5GHZ TX POWER TARGET	
Rate	Pout (dBm)
MCS0 VHT20	22
MC57 VHT40, VHT80	20
MCS9 VHT40, VHT80	19
MCS11 HE20, HE40, HE80	15

PERFORMANCE AND CA Peak PHY Rates	2.4GHz: 574 Mbps 5GHz: 1200 Mbps			
Client Capacity	Up to 512 clients per AP			
SSID	Up to 31 per AP			

RUCKUS RADIO MANAGEMEN	T
Antenna Optimization	BeamFlex+ Polarization Diversity with Maximal Ratio Combining (PD-MRC)
Wi-Fi Channel Management	ChannelFly Background Scan Based
Client Density Management	Adaptive Band Balancing Client Load Balancing Airtime Fairness Airtime-based WLAN Prioritization
SmartCast Quality of Service	QoS-based scheduling Directed Multicast L2/L3/L4 ACLs
Mobility	SmartRoam
Diagnostic Tools	Spectrum Analysis SpeedFlex

Outdoor 2x2:2 Wi-Fi 6 Access Point

NETWORKING	
Controller Platform Support	SmartZone ZoneDirector Unleashed Cloud Standalone
Mesh	SmartMesh [™] wireless meshing technology. Self-healing Mesh
IP	• IPv4, IPv6
VLAN	802.1Q (1 per BSSID or dynamic per use based on RADIUS) VLAN Pooling Port-based
802.1x	Authenticator & Supplicant
Tunnel	L2TP, GRE, soft-GRE
Policy Management Tools	Application Recognition and Control Access Control Lists Device Fingerprinting Rate Limiting
IoT	T350d: Integrated BLE and Zigbee (1 radio, switchable)

PHYSICAL INTERFACES				
	Т350с	T350d	T350se	
Ethernet	1 x 1GbE	1 x 1GbE port, RJ-45 PoE In - 802.3at Class 4		
USB	MANAGE TO A STATE OF THE STATE	1 USB 2.0 port, Type A		
DC Power		12V DC Terminal Block (7V - 20V		

PHYSICAL CHARACTERISTICS			
	T350c	T350d	T350se
Physical Size	• 162.3 mm (W) x 194.9 mm (L) x 80.9 mm (L) • 6.38 in (W) x 7.67 in (L) x 3.19 in (H)	• 162.3 mm (W) x 213.7 rnm (L) x 80.9 mm (H) • 6.38 in (W) x 8.41 in (L) x 3.19 in (H)	• 209.1 mm (W) x 261.7 mm (L) x 102.5 mm (H) • 8.23 in (W) x 10.30 in (L) x 4.04 in (H)
Weight (w/ included bracket)	1.01kg (2.23lbs)	1.07kg (2.36lbs)	2.2kg (4.85lbs)
Ingress Protection	IP-67		
Mounting	Pole Mount Wall Mount Flat Surface Bracket included in the box		
Operating Temperature	-20°C -(4°F) to 65°C (149°F) -40°C -(-40°F) to 65°C (149°F)		55°C (149°F)
Operating Humidity	Up to 95%, non-condensing		
Wind Survivability	Up to 266km/h (165 mph)		
Altitude	Up to 3,048m	10,000 ft), functio	nal operation

		T350c	T350d	T350se
Power Mode	System Configuration	Max Power Consumption (include USB power)		
802.3at (PoE) - Class 4	Full Functionality	13.24W	17.57W	21.3W
802.3af (PoE) - Class 3	USB Disabled IoT Disabled	11.42W	12.94W	12.81W
Idle (PoE)		7.68W	7.78W	8.68W
DC - max power	Full Functionality	-	16.32W	19.34W
DC - idle			6.78W	7.92W

CERTIFICATIONS AND COM	PLIANCE
Wi-Fi Alliance ³	Wi-Fi CERTIFIED™ a, b, g, n, ac Wi-Fi CERTIFIED™ 6 WPA3™ - Enterprise, Personal Wi-Fi Enhanced Open™ Wi-Fi Agile Multiband™ Wi-Fi Optimized Connectivity™ Wi-Fi Vantage™ Wi-Fi Vantage™ WMM* Passpoint*
Standards Compliance ⁴	IEC/EN/UL 62368-1 & IEC/EN 60950-1 Safety FCC 15B, RSS-Gen, EN 301 489-1/17 EN 61000-3-x Emissions EN 61000-4-2/3/5 Immunity EN 60601-1-2 Medical EN 50121-1/4 Railway EMC IEC 61373 Railway Shock & Vibration UL 2043 Plenum EN 62311 Human Safety/RF Exposure WEEE & RoHS ISTA 2A Transportation

SOFTWARE AND SERVICES	
Location Based Services	• SPoT
Network Analytics	SmartCell Insight (SCI) RUCKUS Analytics
Security and Policy	Cloudpath

Model	Antenna	Low Temp	USB	DC Power
T350c	Internal omni	-20°C	N	N
T350d	Internal omni	-40°C	Y	Y
T350se	Internal sector (120°) + External	-40°C		

 $^{^{\}rm 2}$ Max power varies by country setting, band, and MCS rate.

 $^{^{3}}$ For complete list of WFA certifications, please see Wi-Fi Alliance website.

⁴ For current certification status, please see price list.

Outdoor 2x2:2 Wi-Fi 6 Access Point

ORDERING INFORMATION			
T350 OUTDOOR APs			
901-T350-XX20	T350c, omni, outdoor access point, 2x2:2 Wi-Fi 6 internal BeamFlex+, dual band concurrent. One Ethernet port, PoE input20°C to 65°C Operating Temperature. Includes mounting bracket and one year warranty. Does not include PoE injector.		
901-T350-XX40	T350d, omni, outdoor access point, 2x2:2 Wi-Fi 6 internal BeamFlex+, dual band concurrent. One Ethernet port, PoE input, DC input and USB port40°C to 65°C Operating Temperature. Includes mounting bracket and one year warranty. Does not include PoE injector.		
901-T350-XX51	T350se, sector+external, outdoor access point, 2x2:2 Wi-Fi 6, internal 120 degree sector + external antenna capable, dual band concurrent access point. One Ethernet port, PoE input, DC input and USB port40°C to 65°C Operating Temperature. Includes adjustable mounting bracket and one year warranty. Does not include PoE injector.		

See RUCKUS price list for country-specific ordering information. PLEASE NOTE: When ordering outdoor APs, you must specify the destination region by indicating -US, -WW, or -Z2 instead of XX. For access points, -Z2 applies to the following countries: Algeria, Egypt, Israel, Morocco, Tunisia, and Vietnam

Warranty: Sold with a limited one year warranty.

For details see: http://support.ruckuswireless.com/warranty

OPTIONAL ACCESSORIES	
902-0162-XXYY	PoE injector (24W) (Sold in quantities of 1, 10 or 100)
902-0125-0000	Secure articulating mounting bracket
902-0127-0000	Extended cap to accommodate up to 6 cm long USB dongle
902-1121-0000	Spare weatherizing cable gland with option of one hole or 2 hole connection
902-0183-000	Spare cable gland for weatherizing the RJ-45 ports on outdoor APs.

PLEASE NOTE: When ordering PoE injectors or power supplies, you must specify the destination region by indicating -US, -EU, -AU, -BR, -CN, -IN, -JP, -KR, -SA, -UK, or -UN instead of -XX.

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