

# COMMSCOPE® RUCKUS®

## T350se Access Point Quick Setup Guide

**NOTE:** The minimum software revision for the T350se is ZoneDirector (ZD) 10.5 or later, or SmartZone (SZ) 6.0 or later.

This Quick Setup Guide provides step-by-step instructions on how to field-install the RUCKUS T350se Access Point (AP). For detailed information on planning the installation, performing a site survey, and operating the T350se, refer to the *RUCKUS Outdoor Access Point User Guide*, available at <https://support.ruckuswireless.com>.

**WARNING!** Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

**WARNING!** Installation of this equipment must comply with local and national electrical codes.

**CAUTION!** Form a 80-mm to 130-mm (3-in. to 5-in.) drip loop in any cable that is attached to the AP or the building. This will prevent water from running along the cable and entering the AP or the building where the cable terminates.

**CAUTION!** Be sure that grounding is available and that it meets local and national electrical codes. For additional lightning protection, use lightning rods and lightning arrestors.

**CAUTION!** Make sure that proper lightning surge protection precautions are taken according to local electrical code.

**CAUTION!** RUCKUS strongly recommends that you wear eye protection before mounting the T350se.

### This Guide in Other Languages

- 请从以下网站获得该指南的简体中文版 <http://docs.commscope.com/?docs-box>.
- Vous trouverez la version française de ce guide à l'adresse suivante <http://docs.commscope.com/?docs-box>.
- このガイドの日本語版は <http://docs.commscope.com/?docs-box> をご覧ください。
- 이 가이드의 한국어 버전은 웹 사이트 (<http://docs.commscope.com/?docs-box>) 에서 확인하시기 바랍니다.

- Veja a versão em português (Brasil) deste guia em <http://docs.commscope.com/?docs-box>
- Puede ver la versión en español (América Latina) de esta guía en <http://docs.commscope.com/?docs-box>

### Before You Begin

Before deploying RUCKUS products, please check for the latest software and the release documentation.

- Release Notes and other user documentation are available at <http://support.ruckuswireless.com/documents>.
- Software upgrades are available at <http://support.ruckuswireless.com/software>.
- Software license and limited warranty information are available at <http://support.ruckuswireless.com/warranty>.

Before deploying your RUCKUS Access Point, verify that all items listed in Package Contents are included in the package. If any item is damaged or missing, notify your authorized RUCKUS sales representative. Also, make sure that you have the required hardware and tools.

### Required Hardware and Tools

- No. 2 Phillips screwdriver
- Small flat-blade screwdriver
- Wide flat-blade screwdriver
- Torque wrench or torque screwdriver with sockets
- Long-nose pliers
- Electrical wire stripping and terminal crimping pliers
- Pipe or pole, or a sturdy flat surface
- Electric drill with drill bits and customer-supplied wall anchors, flat washers, and hex nuts for flat-surface mount

### Package Contents

A complete T350se field installation package includes all of the following items:

- T350se Access Point
- M25 data cable gland
- Ground wire with lug
- Pole/Wall Mount Bracket Kit
- Declaration of Conformity/Regulatory Statement

### T350se Sector Antenna Coverage

The T350se AP is best deployed where internal antenna directional beamwidths can provide extended reach and throughput to a 120-degree coverage area. Refer to the following figures for the azimuth and elevation coverage patterns.

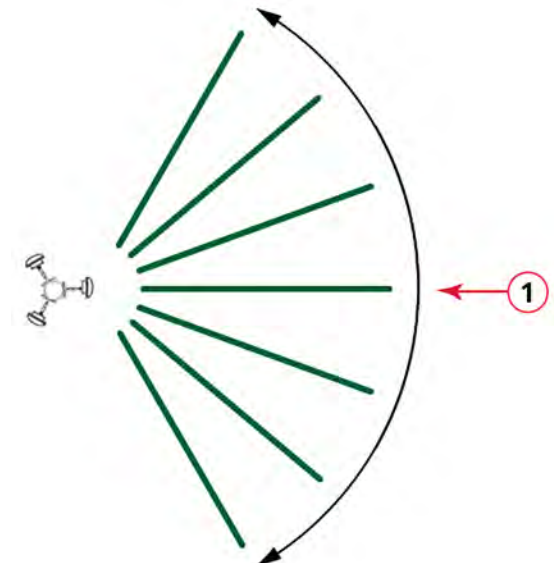
FIGURE 1 T350se AP - Rear View



1. ANT 0

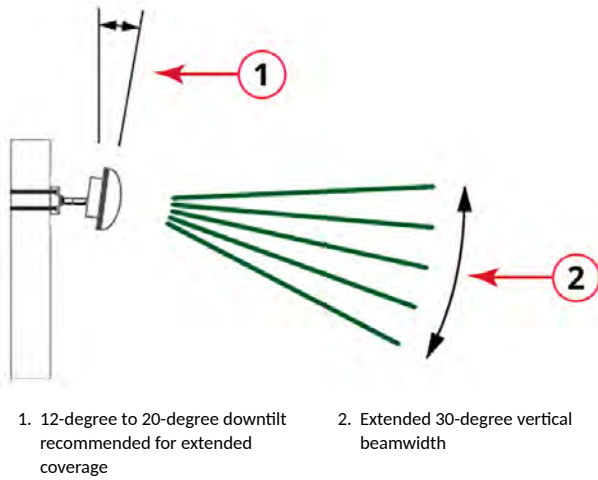
2. ANT 1

FIGURE 2 Typical AP Sector Azimuth Plane Coverage, Top View



1. Extended 120-degree reach

**FIGURE 3** Typical AP Sector Elevation Plane Coverage, Side View



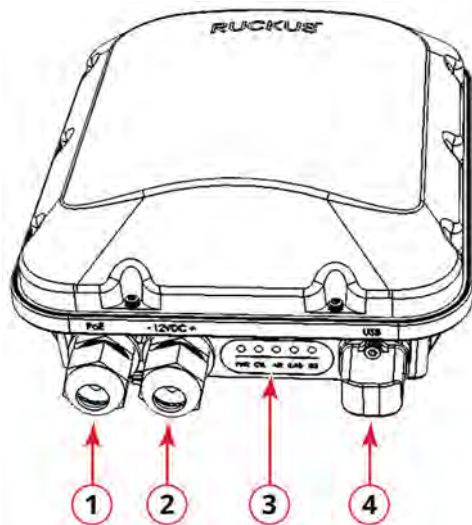
## Mounting Instructions

### Connecting and Sealing the RJ-45 Cables

Connect and seal the RJ-45 cables using the M25 data cable glands shown in the Figure below.

**WARNING!** Do not use any PoE injector not tested and approved by RUCKUS to power the T350se Access Point.

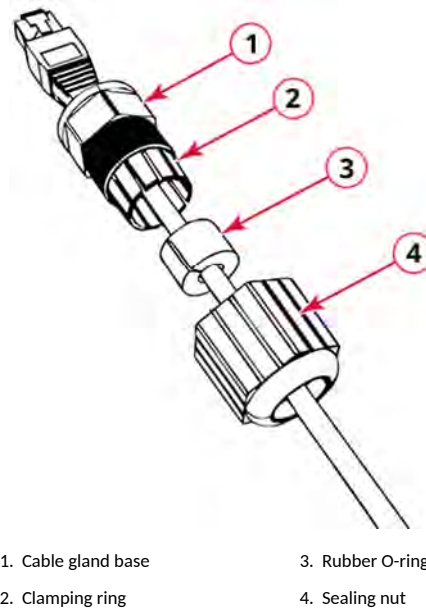
**FIGURE 4** T350se LEDs and Ports



1. PoE
  2. 12V DC
  3. LED
  4. USB
1. Feed the end of the cable through the sealing nut, rubber O-ring, clamping ring assembly, and cable gland base, as shown in [Figure 5](#).

**NOTE:** Do not seat the clamping ring and rubber O-ring into the gland body until the gland body has been torqued to specifications.

**FIGURE 5** RJ-45 Cable and Gland Assembly



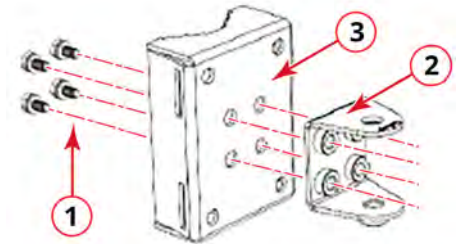
2. Use a wide flat-blade screwdriver to remove the required (PoE IN) blanking cap from the AP.
3. Connect the cable to the Ethernet port on the AP.
4. Tighten the cable gland base into the AP chassis to 7 N.m or 62 in-lbs.
5. Wrap the clamping ring assembly around the rubber O-ring. Make sure that the clamping ring assembly fully encloses the rubber O-ring.
6. Seat the clamping ring assembly and rubber O-ring in the cable gland base.
7. Hand-tighten the sealing nut.

### Attaching the U-Joint Bracket to the Mounting Bracket

1. Position the U-joint bracket on the mounting bracket.

**NOTE:** Mount the U-joint bracket in any direction on the mounting bracket, preferably to allow AP azimuth adjustments. If mounted properly, the AP bracket allows AP elevation adjustments.

**FIGURE 6** U-Joint Bracket Attached Horizontally to the Mounting Bracket

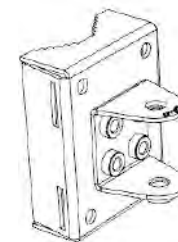


2. Use four 1/4-28 bolt and washer sets to mount the U-joint bracket to the mounting bracket. Tighten the bolts to 9.5 N.m (7 ft-lbs).
3. Continue with [Attaching the Mounting Bracket to a Flat Surface](#) on page 2 or [Attaching the Mounting Bracket to a Pole](#) on page 3.

### Attaching the Mounting Bracket to a Flat Surface

1. Place the mounting bracket at the location on the flat surface where you want to mount the AP. Use the holes on the mounting bracket as a template to mark the locations of the mounting holes.

**FIGURE 7** Attaching the Mounting Bracket to a Flat Surface



2. Remove the mounting bracket from the flat surface.
3. Drill holes required for the mounting hardware.

**NOTE:** The mounting hardware required for mounting to a wall is not included in the mounting kit.

4. Attach the mounting bracket to the flat surface using the mounting hardware.
5. Using the mounting hardware instructions, tighten the hardware to secure the mounting bracket.
6. Continue with [Mounting the Linkage Bracket to the U-Joint Bracket](#) on page 3.

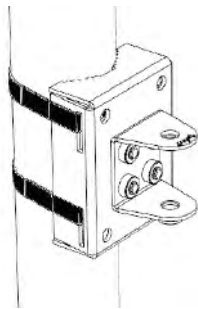
### Attaching the Mounting Bracket to a Pole

1. Insert the open end of one steel clamp into the upper two slots on the mounting bracket.
2. Take the other steel clamp and insert it into the lower two slots on the mounting bracket.

**NOTE:** The clamps can be daisy-chained together to accommodate larger poles.

3. Use the clamps to attach the mounting bracket to the pole. Tighten the clamps to 3 N.m or 27 in-lbs, or per manufacturer's specifications.

**FIGURE 8** Attaching the Mounting Bracket to a Vertical Pole



4. Continue with [Mounting the Linkage Bracket to the U-Joint Bracket](#) on page 3.

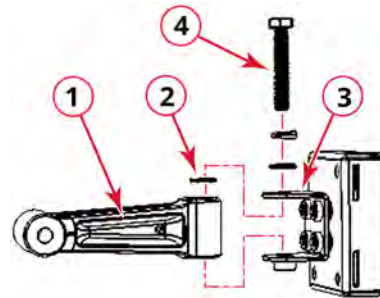
### Mounting the Linkage Bracket to the U-Joint Bracket

The linkage bracket attaches to the U-joint bracket using an M8 bolt and washer set. The linkage bracket is symmetrical, and either end can be attached to the U-joint bracket.

**NOTE:** Make sure that the linkage bracket is installed with its serrated external-tooth lock washer on the *inside* of the U-joint bracket flanges. This ensures that the azimuth adjustment does not change.

1. Loosely assemble the linkage bracket, the U-joint bracket, one serrated external-tooth lock washer, and one M8 bolt and washer set.

**FIGURE 9** Attaching the Linkage Bracket to the U-Joint Bracket



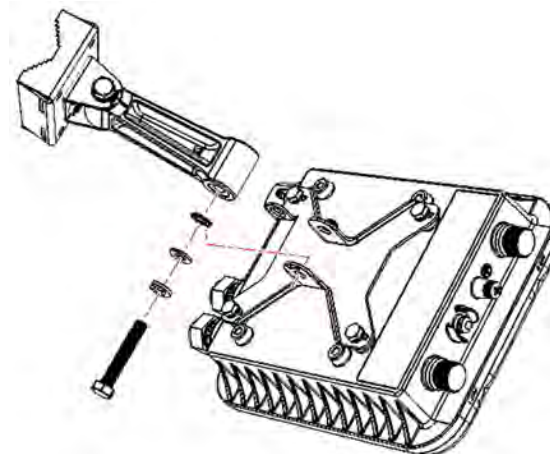
- |  |                           |
|--|---------------------------|
| 1. Linkage bracket                     | 3. M8 bolt and washer set |
| 2. Serrated external-tooth lock washer | 4. U-joint bracket        |

2. Set the azimuth required by the AP.
3. Tighten the M8 bolt to 13.6 N-m (120 in-lbs).
4. Continue with [Attaching the AP Bracket to the Linkage Bracket](#) on page 3.

### Attaching the AP Bracket to the Linkage Bracket

1. Attach the AP bracket to the linkage bracket using the included bolt, lock washer, flat washer, serrated external-tooth washer and nut, as shown in [Figure 10](#).

**FIGURE 10** Attaching the Linkage Bracket to the AP Bracket



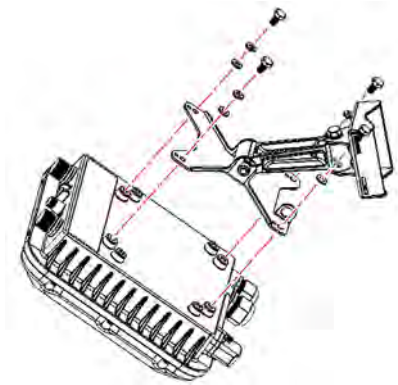
2. The linkage bracket is symmetrical, and either end can be attached to the AP bracket.

**NOTE:** Make sure that the linkage bracket is installed with its serrated external-tooth lock washer on the *inside* of the AP bracket flanges. This ensures that the elevation adjustment does not change.

### Attaching the AP Bracket to the Access Point

1. Place the AP bracket onto the back side of the AP so that the four larger screw holes on the bracket align with the four screw holes on the AP.

**FIGURE 11** Attaching the AP Bracket to the AP



2. Use four 0.5-inch x 0.250-28 hex bolts with split lock and flat washer sets to mount the AP bracket to the AP. Tighten the bolts to 2.5-3.0 N.m or 22-27 in-lbs.

**CAUTION!** Make sure that the screws are no longer than 0.5 inch. If a screw is longer than 0.5 inch, it can damage the AP chassis.

**NOTE:** This kit may include extra screws, nuts, and washers. You may use the extras where required.

3. Continue with [Setting the Elevation and Tightening the Elevation Bolt](#) on page 3.

### Setting the Elevation and Tightening the Elevation Bolt

1. Set the elevation required by the AP.
2. Tighten the M8 bolt to 13.6 N-m (120 in-lbs).
3. Continue with [Powering the AP with DC Power](#) on page 4.

## Powering the AP with DC Power

The AP can draw power from the Ethernet input as a Class 4 device, providing a maximum of 22W to the system. Alternately, power can be supplied through a customer-provided 12V DC power supply (12V DC preferred, 7-20V DC acceptable) that will connect to a two-pin terminal block. The terminal block is accessible through a water-tight gland on one end of the unit. The terminal block connection has surge and polarity protection to protect against inserting the wrong polarity leads into the terminal block.

**NOTE:** If both the PoE and DC ports are used, separate cable glands must be used for each port. Additional cable gland (Part Number 902-0183-0000) can be purchased.

**NOTE:** When both the 12V DC and the 48V PoE power are active, the AP will prioritize the 12V DC power.

**CAUTION!** Ensure that the DC power source does not exceed 20V DC.

1. Install the DC power supply as described in the *DC Power Supply Installation Guide*.
2. Connect the DC cord to a DC power source.
3. Verify that the PWR LED is a steady green.

## Earth Grounding the AP

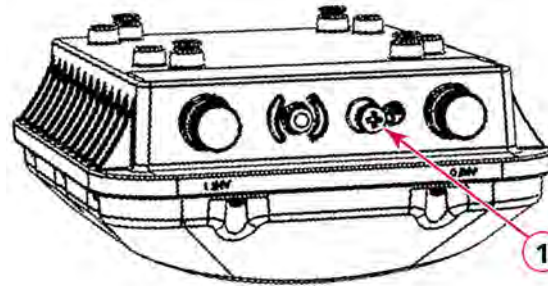
**CAUTION!** Make sure that earth grounding is available and that it meets local and national electrical codes. For additional lightning protection, use lightning rods and lightning arrestors.

**NOTE:** The color coding of ground wires varies by region. Before completing this step, check your local wiring standards for guidance.

Using the factory-supplied ground wire and ground screw and washer set, connect a good earth ground to the AP chassis ground point.

**CAUTION!** The T350se AP includes one 9-mm stainless steel M6x1 earth ground screw with split lock and flat washers. Make sure that any replacement screw is no longer than 9-mm. If a screw is longer than 9-mm, it can damage the AP chassis.

FIGURE 12 Connecting a Good Earth Ground to the AP



1. Earth grounding

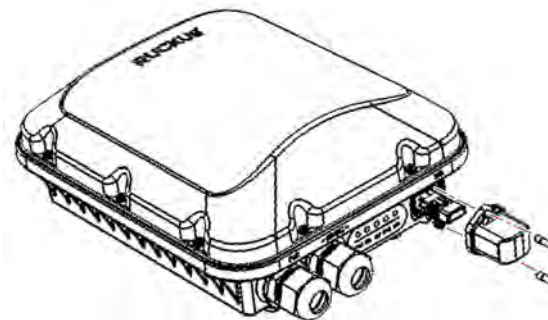
## Installing a USB Dongle

To install a USB dongle (for example, an IoT radio device such as BLE, 802.15.4, Z-wave, or similar), remove the two 3-mm hex screws, remove the cap, and insert the dongle into the USB port.

Once installed, replace the cap and the hex screws, and tighten the screws to 0.79 N.m or 7 in-lbs.

**NOTE:** If required, a larger USB dongle cap can be purchased separately. The maximum dimensions of the USB dongle that can be inserted (with the large USB dongle cap, part # 902-0127-000) are 6 cm x 2 cm x 1.1 cm. The USB port supports 2.5W.

FIGURE 13 Installing a USB Dongle



## Troubleshooting

**CAUTION!** If required, you can reset the AP to its factory default settings by pressing the reset button located inside the PoE IN port. Use the tip of a pen or a 3-mm flat-blade screwdriver to press the reset button. Press and hold the reset button for 4 seconds or longer to restore to factory defaults. **DO NOT RESET THE AP TO FACTORY DEFAULT SETTINGS UNLESS SO INSTRUCTED.** (Doing this resets the AP IP address to 192.168.0.1.)

**NOTE:** After a reset, you can access the internal AP web interface using <https://192.168.0.1>. Your device must use any other address from 192.168.0.2 through 192.168.0.254, with subnet mask 255.255.255.0. The username is **super**, and the password is **sp-admin**.

## For More Information

For information on how to configure and manage the AP, refer to the *RUCKUS Access Point User Guide*, available from <https://support.ruckuswireless.com>.

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## T350se – Outdoor Enterprise AP Federal Communications Commission Notices

Ruckus Wireless Inc., a CommScope Company

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 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 **26 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 **26 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 26 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 26 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)：T350se						
		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 <sup>+6</sup> )	多溴聯苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
Enclosure - Top 頂部外殼	○	○	○	○	○	○
Enclosure - Bottom 底部外殼	○	○	○	○	○	○
PWB 電路板	-	○	○	○	○	○
Connector and Receptacle 插口	○	○	○	○	○	○

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. “○” 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 : “○” 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

เครื่องวิทยุคมนาคมนี้ ได้รับความเห็น ใจได้ รับใบอนุญาตให้มิ ใช้องค์กรวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมประเภท กสพช. หรือ เครื่องวิทยุคมนาคม และสถานีวิทยุคมนาคมที่ ได้รับความเห็น ใจได้ รับใบอนุญาต วิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498

**nabp.** | โทรคมนาคม  
 สำนักงานพัฒนาวิทยุ  
 Call Center 1200 (โทรฟรี)

### European Union Notices and National Restrictions

Maximum output power:  
 —2400-2483.5MHz: 19.9dBm 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(NI)			



The frequency band 5150 – 5350 MHz is restricted to indoor use.

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.
Česky [Czech]	Ruckus Wireless tímto prohlašuje, že tento Radio LAN je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU.
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.
Deutsch [German]	Hiermit erkläre 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.
Eesti [Estonian]	Käesolevaga kinnitab Ruckus Wireless seadme Radio LAN vastavust direktiivi 2014/53/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
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.
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.
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/EU.
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.
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.
Latviski [Latvian]	Ar šo Ruckus Wireless deklarē, ka Radio LAN atbilst Direktīvas 2014/53/EU būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo Ruckus Wireless deklaruoją, kad šis Radio LAN atitinka esminius reikalavimus ir kitas 2014/53/EU Direktyvos nuostatas.
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.
Malti [Maltese]	Hawnhekk, Ruckus Wireless, jiddikjara li dan Radio LAN jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 2014/53/EU.
Magyar [Hungarian]	Alulírott, Ruckus Wireless nyilatkozom, hogy a Radio LAN megfelel a vonatkozó alapvető követelményeknek és az 2014/53/EU irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym Ruckus Wireless oświadcza, że Radio LAN jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2014/53/EU.
Português [Portuguese]	Ruckus Wireless declara que este Radio LAN está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU.
Slovensko [Slovenian]	Ruckus Wireless izjavlja, da je ta Radio LAN v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 2014/53/EU.
Slovensky [Slovak]	Ruckus Wireless týmto vyhlasuje, že Radio LAN spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EU.
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.
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.
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.
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.



## T350se, 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.

### T350se – Antennas

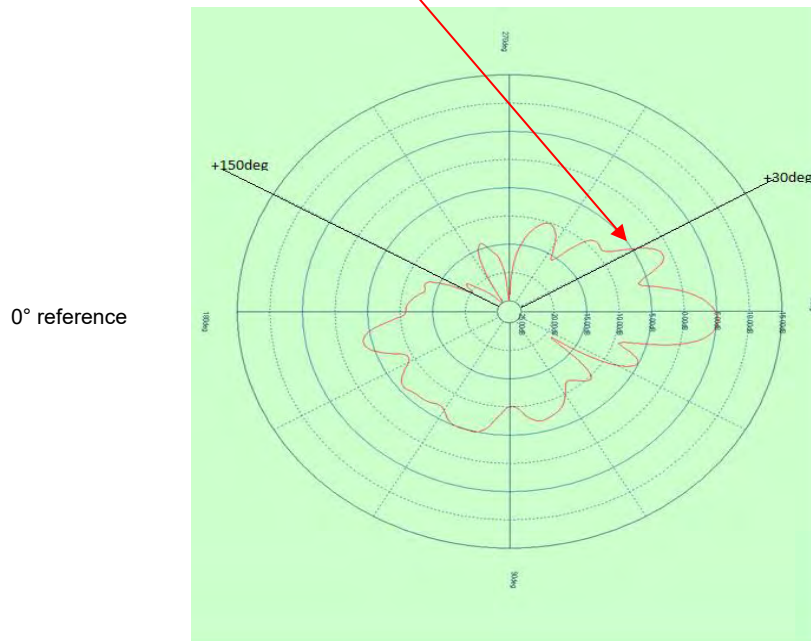
Maximum EIRP in 5150 – 5250 MHz band = 22.2 dBm +  
Antenna Gain

Maximum EIRP above 30 degree from Horizontal = 22.2 dBm +  
(-4.7 dBi) = 17.5 dBm

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

### T350se Integrated Antenna

Elevation Pattern: The highest gain is -4.7dBi above 30° to 150°



When the device is installed outdoors and use External antenna, External antenna must be adjusted toward the horizon to ensure the energy radiated above 30 degrees from the horizon remains under 21 dBm EIRP (if necessary as a second adjustment - RF power may be reduced).