

R320 – Indoor Enterprise AP**Ruckus Wireless Inc., an ARRIS 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.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device is restricted for indoor use only and meets all the requirements specified in Part 15, Section 15.407 of the FCC Rules. This transmitter require professional installation and must not be co-located or operating in conjunction with any other antenna or transmitter.

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

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20 cm** between the radiator & your body.

Canada Statement

Under ISSED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISSED. 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'ISSED, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISSED. 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 ISSED 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'ISSED 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.

Operation of this device in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. Operation in the 5600-5650 MHz band is not allowed in Canada.

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. Opération dans la bande 5600-5650 MHz n'est pas autorisée au Canada.

Ce produit est destiné à être installé dans un endroit à accès restreint et est marqué d'un avertissement visible que la surface peut être chaude

Dynamic Frequency Selection (DFS) for devices operating in the bands 5250- 5350 MHz, 5470-5600 MHz and 5650-5725 MHz.

Sélection dynamique de fréquences (DFS) pour les dispositifs fonctionnant dans les bandes 5250-5350 MHz, 5470-5600 MHz et 5650-5725 MHz.

For indoor use only and Professional installation is required.

Pour une utilisation en intérieur uniquement, Une installation professionnelle est requise.

Radiation Exposure Statement

The device has been found to be compliant to the requirements set forth in CFR 47 Sections 2.1091 and ISSED 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 ISSED 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.

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."

European Union Notices and National Restrictions



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

RF Output power:
 WLAN 2.4GHz – 19.94 dBm
 WLAN 5150-5350MHz – 22.95 dBm
 WLAN 5470-5725MHz – 29.32 dBm
 WLAN 5725-5875MHz – 23.00 dBm



The installation instructions clearly state that the ITE is to be connected only to PoE networks without routing to the outside plant.

Supported operational modes: 2.4GHz: 802.11b, 802.11g, 802.11n (HT20 & HT40); 5GHz: 802.11a, 802.11n (HT20 & HT40), 802.11ac (VHT20 & VHT40), 802.11ac (VHT80)

The frequency band 5150 – 5350 MHz is restricted to indoor use. This product is in compliance with the following ETSI standards:

- Radio: ETSI EN 300 328, ETSI EN 301 893; UK OFCOM IR2030:2017
- EMC: EN 301 489-1, EN 301 489-17, EN 55032, EN 55024
- Safety: EN 60950-1, EN 62368-1, EN 62311

This Product is intended to be installed at a restricted access location and is marked with a visible warning  that the surface may be hot

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
3. Installation procedure: Please refer to user's manual for the detail.
4. Warning: Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in US 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. Available Ruckus power supplies intended for product operation are identified in the product datasheet – PSU input rating: DC 12V 1.0A. 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.

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.

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。

無線資訊傳輸設備避免影響附近雷達系統之操作

Japan - Class B ITE

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。V C C I – B

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

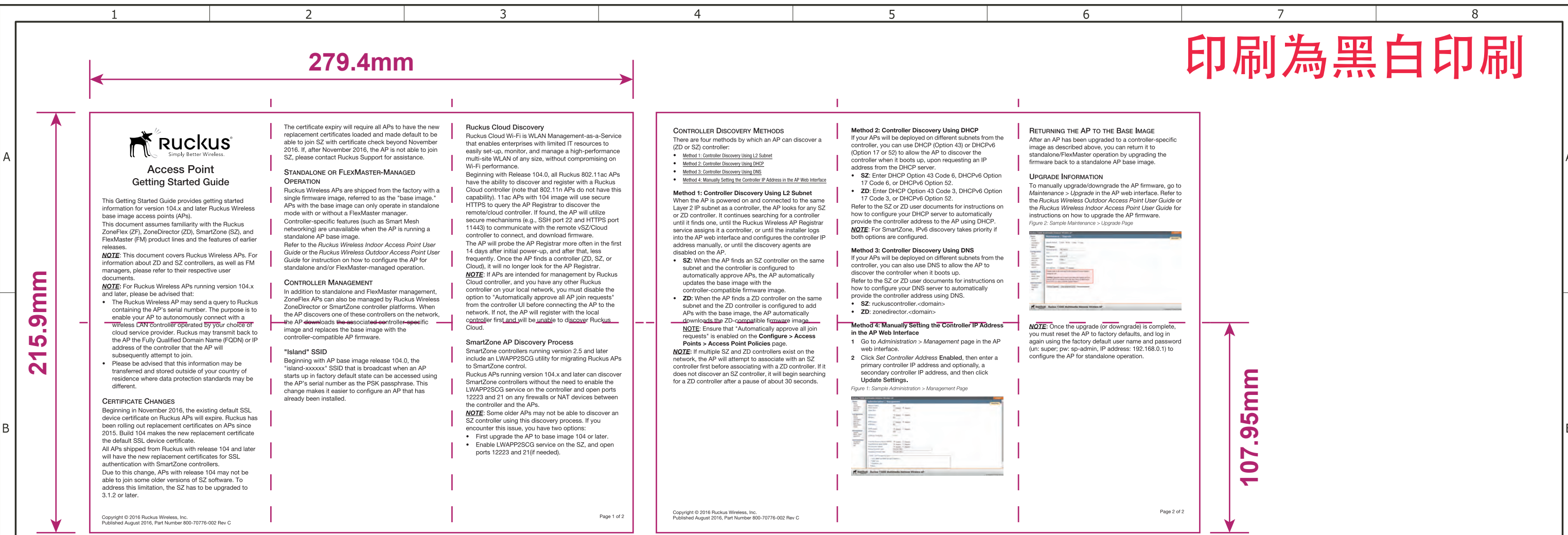
設備名稱：無線網路基地台，型號（型式）： R320						
Equipment name		Type designation (Type)				
單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻Hexavalent chromium (Cr ⁺⁶)	多溴聯苯Polybrominated Biphenyls (PBB)	多溴二苯醚Polybrominated diphenyl ethers (PBDE)
Enclosure - 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.						

EU Declaration of Conformity

Hereby, Ruckus Wireless Inc., declares that the radio equipment type R320 is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address: www.ruckuswireless.com

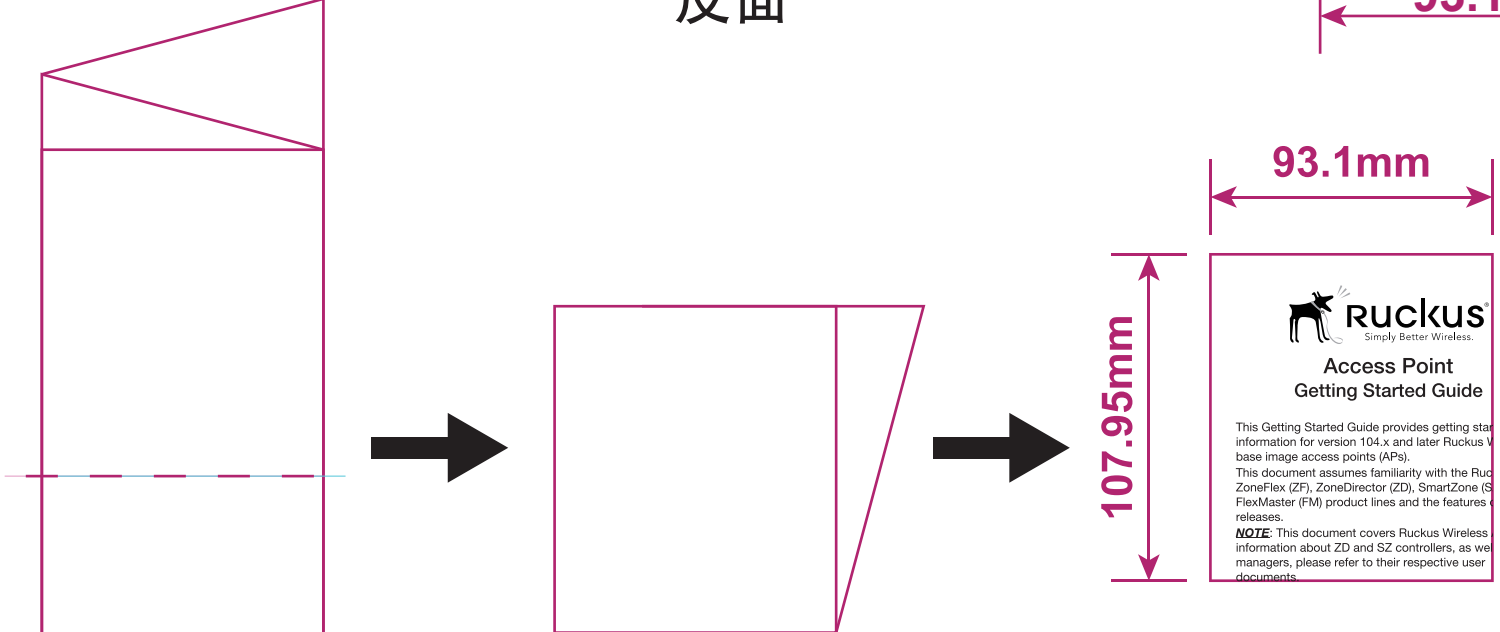
Български [Bulgarian]	С настоящото Ruckus Wireless декларира, че този тип радиосъоръжение е в съответствие с Директива 2014/53/ЕС.
Česky [Czech]	Ruckus Wireless tímto prohlašuje, že tento Radio LAN je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU.
Dansk [Danish]	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.

印刷為黑白印刷



正面 反面

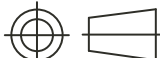
示意圖方式：



(客戶): Ruckus
(材質): 80g雙銅紙
(顏色): Black
(上光方式): NO
(裝釘方式): 折疊
(尺寸):展開尺寸:279.4x215.9mm
成型尺寸:93.1x107.95mm
(公差): +-1 mm

技术要求：
1. 不可有划碰伤、油污等表面缺陷
2. 印刷要求清晰无毛刺，位置精确
3. 材质及印刷内容、字体、符号、线条等同图纸

LIMITS UNLESS OTHERWISE NOTED	
X. +-	X. ° +-
.X +-	.X ° +-
.XX +-	.XX ° +-
.XXX +-	.XXX ° +-

A4	UNIT	SCALE	SHEET	MODEL No.	WJ8331-Z-RK Ruckus		
	MM	NON	1(1)	PART NAME	入門指南		
APPROVED	CHECKED	DESIGNED		PART No.	515000048347	REV	A0
		qiuxiaxie 謝秋霞 2016-09-02		LITEON 光寶科技股份有限公司 LITE-ON TECHNOLOGY CORP.			

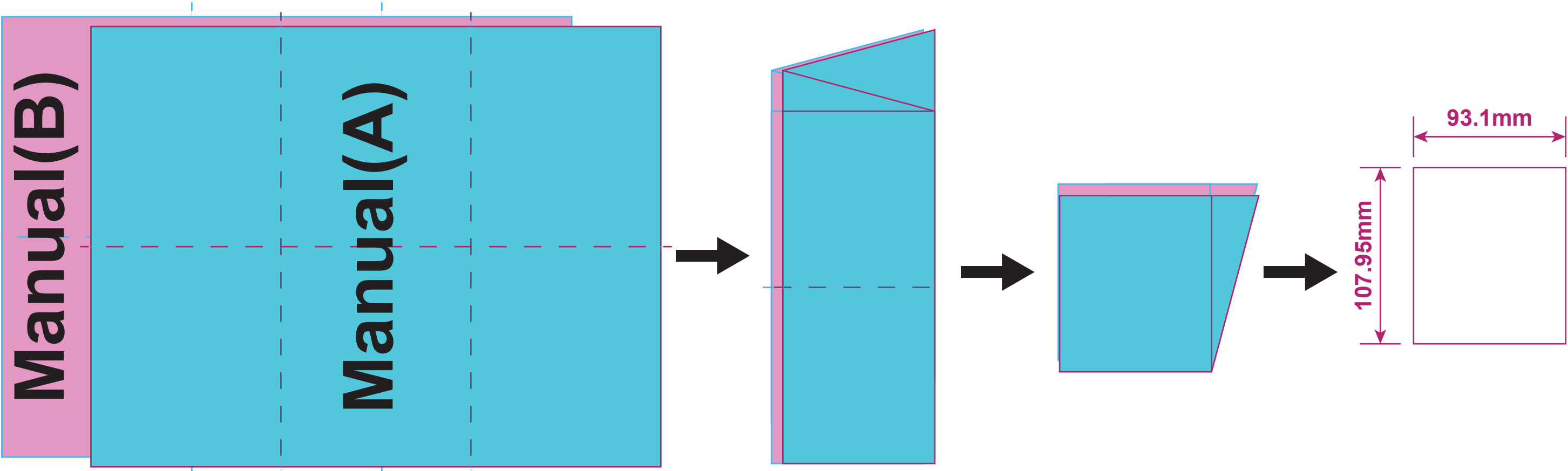


成型方式：(示意圖)

Forming method：(Schematic diagram)

印刷為黑白印刷
Printing is black and white printing

成型時Manual(A) 與 Manual(B) 同時折疊。
When forming Manual(A) and Manual(B) At the same time folding
Manual(A) 放在上面， Manual(B)放在Manual(A) 下面。同時成型。
Manual(A) superpose,Manual(B) put Manual(A) below At the same time the molding
(Manual(A) 與 Manual(B) 全部正面朝上折疊)
Manual(A) and Manual(B) Fold the entire face fold

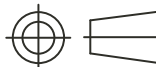


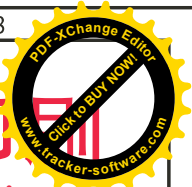
- 技术要求:
technical requirements
- 1. 不可有划碰伤、油污等表面缺陷
There shall be no surface defects such as oil bruised
 - 2. 印刷要求清晰无毛刺，位置精确
No burr printing requires clear and accurate location
 - 3. 材质及印刷内容、字体、符号、线条等同图纸
The material and printing content Font symbol line equivalent drawing



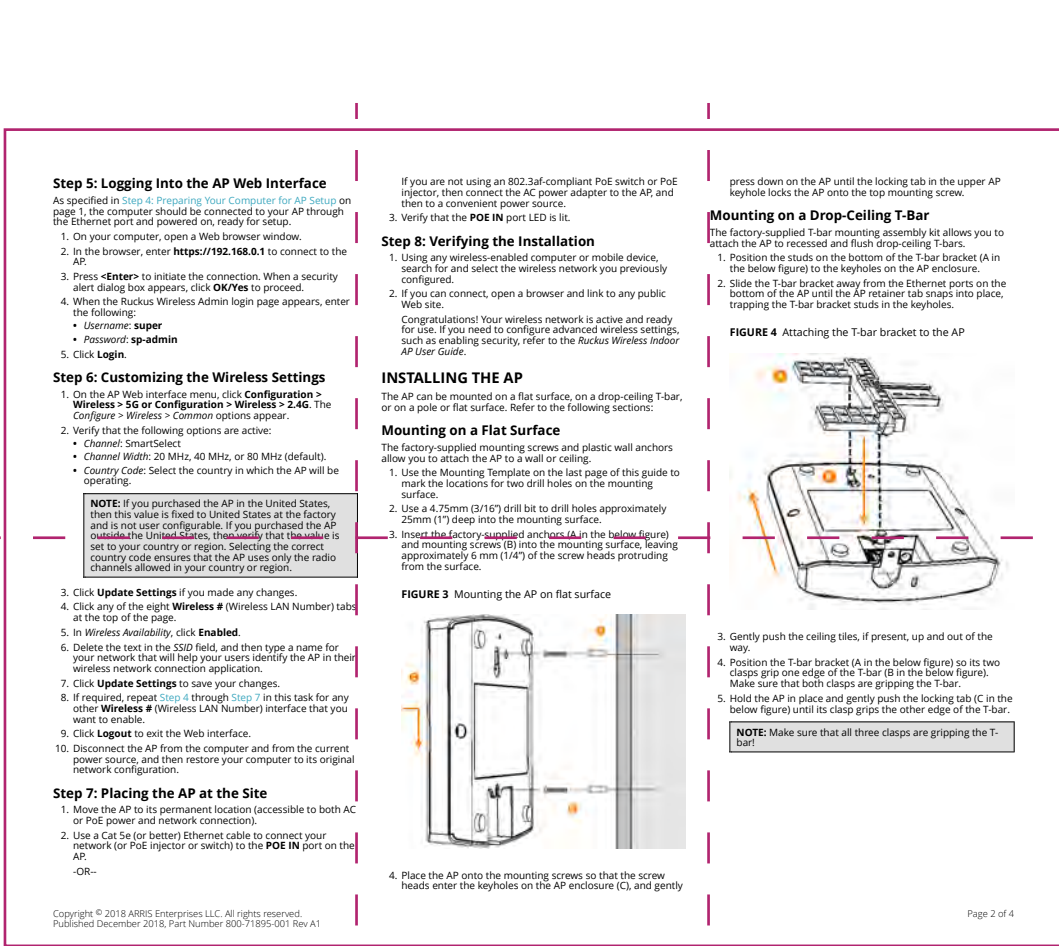
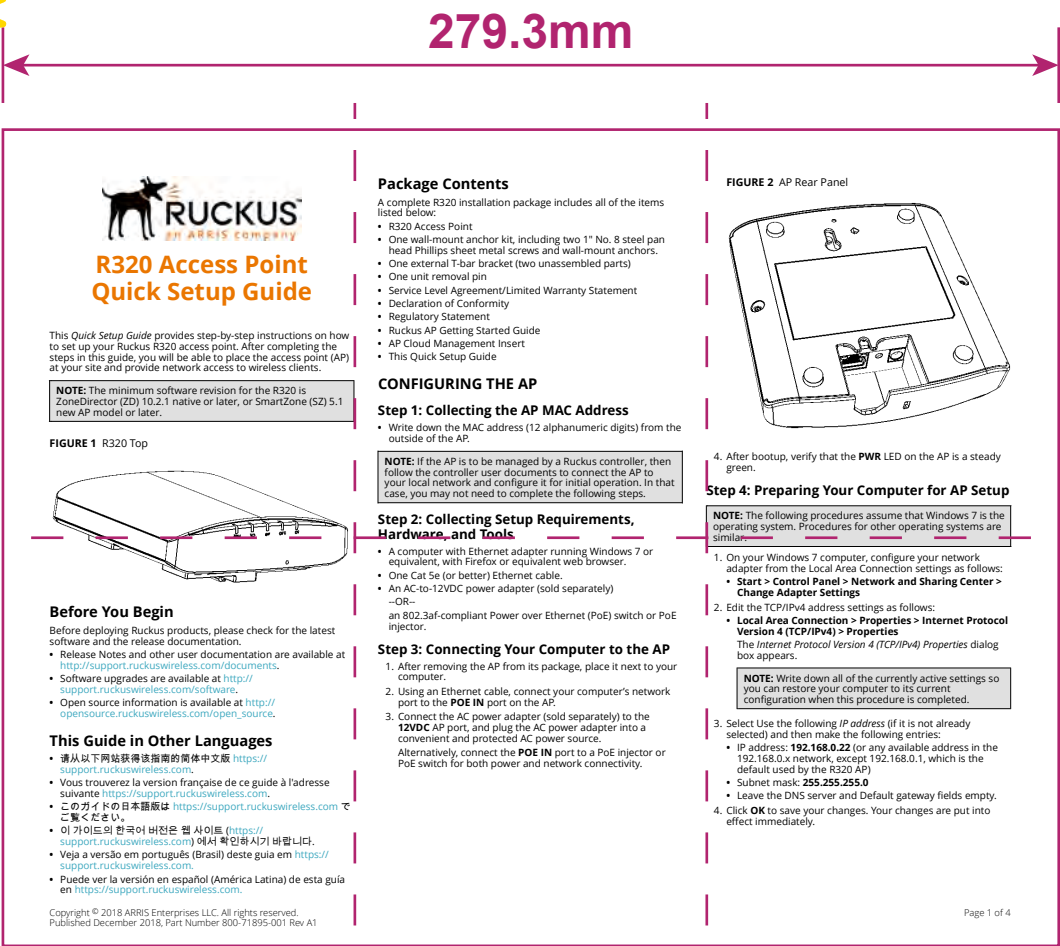
(客戶/Client): Ruckus
(材質/Material): 80g 雙銅紙/Double copper paper
(顏色/Color): Black
(上光方式/Glaze): NO
(裝釘方式/Binding way): 折疊/fold
(尺寸/size):展開尺寸/unfold size:279.3x215.9mm
成型尺寸/Case Size:93.1x107.95mm
(公差/tolerance): +-1 mm

LIMITS UNLESS OTHERWISE NOTED	
X. +-	X.° +-
.X +-	.X° +-
.XX +-	.XX° +-
.XXX +-	.XXX° +-

A4	UNIT	SCALE	SHEET	MODEL No.	WP8321-RK(R320) Ruckus 800-71895-001			
	MM	NON	1(1)	PART NAME	Manual			
APPROVED	CHECKED	DESIGNED		PART No.	515300185547	REV	A1	
		蔣浩月 HAOYUEJIANG 2018/11/05		LITEON 光寶科技股份有限公司 LITE-ON TECHNOLOGY CORP.				



印刷為黑白印刷
Printing is black and white printing



正面/front

139.996

反面/reverse side

93.1mm

示意圖方式：
Schematic way

Manual(A)

技术要求:
technical requirements

1. 不可有划碰伤、油污等表面缺陷
There shall be no surface defects such as oil bruised
2. 印刷要求清晰无毛刺，位置精确
No burr printing requires clear and accurate location
3. 材质及印刷内容、字体、符号、线条等同图纸
The material and printing content Font symbol line equivalent drawing



LIMITS UNLESS OTHERWISE NOTED	
$X_{+ -}$	$X_{+ -}^{\circ}$
$.X_{+ -}$	$.X_{+ -}^{\circ}$
$.XX_{+ -}$	$.XX_{+ -}^{\circ}$
$.XXX_{+ -}$	$.XXX_{+ -}^{\circ}$

	UNIT	SCALE	SHEET	MODEL No.	WP8321-RK(R320) Ruckus 800-71895-001		
	MM	NON	1(1)	PART NAME	Manual		
APPROVED	CHECKED	DESIGNED	PART No.	515300185547	REV	A1	
		蔣浩月 HAOUUEJIANg 2018/11/05	 光寶科技股份有限公司 LITE-ON TECHNOLOGY CORP.				

(客戶/Client): Ruckus

(材質/Material): 80g 雙銅紙/Double copper paper

(顏色/Color): Black

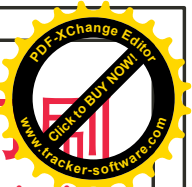
(上光方式/Glaze): NO

(裝釘方式/Binding way): 折疊/fold

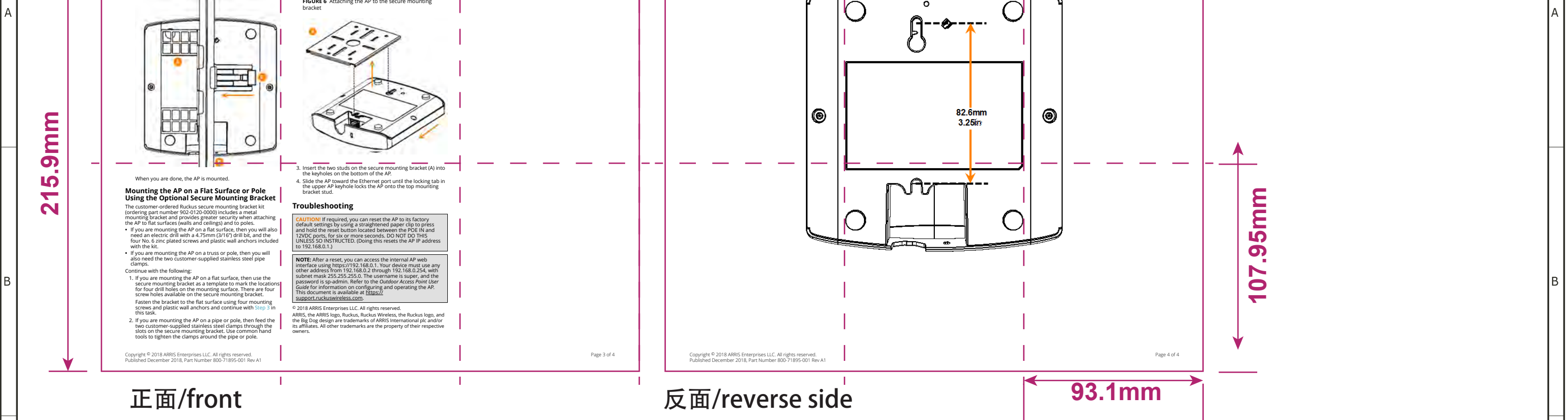
(尺寸/size):展開尺寸/unfold size:279.3x215.9mm

成型尺寸/Case Size:93.1x107.95mm

(公差/tolerance): ± 1 mm



印刷為黑白印刷
Printing is black and white printing



示意圖方式：
Schematic way

Manual(B)

技术要求:
technical requirements

1. 不可有划碰伤、油污等表面缺陷
There shall be no surface defects such as oil bruised
2. 印刷要求清晰无毛刺，位置精确
No burr printing requires clear and accurate location
3. 材质及印刷内容、字体、符号、线条等同图纸
The material and printing content Font symbol line equivalent drawing



(客戶/Client): Ruckus

(材質/Material): 80g 雙銅紙/Double copper paper

(顏色/Color): Black

(上光方式/Glaze): NO

(裝釘方式/Binding way): 折疊/fold

(尺寸/size):展開尺寸/unfold size:279.3x215.9mm

成型尺寸/Case Size:93.1x107.95mm

(公差/tolerance): ± 1 mm

LIMITS UNLESS OTHERWISE NOTED	
$X_{-} + -$	$X_{-}^{\circ} + -$
$.X_{-} + -$	$.X_{-}^{\circ} + -$
$.XX_{-} + -$	$.XX_{-}^{\circ} + -$
$.XXX_{-} + -$	$.XXX_{-}^{\circ} + -$

	UNIT	SCALE	SHEET	MODEL No.	WP8321-RK(R320) Ruckus 800-71895-001		
	MM	NON	1(1)	PART NAME	Manual		
APPROVED	CHECKED	DESIGNED	PART No.	515300185547	REV	A1	
		蔣浩月 HAORYUEJIANG 2018/11/05	 光寶科技股份有限公司 LITE-ON TECHNOLOGY CORP.				