

**FORTINET.**



# FortiAP C24JE

Model : FAP-C24JE

快速安裝指南



4/13/2018

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# 註冊以取得支援

## 請馬上註冊

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您在註冊以後才能得到技術支援、新產品特點資訊、最新威脅防護

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傳真: 1 408 235 7737

電子郵件: [register@fortinet.com](mailto:register@fortinet.com)



# 包裝內容



FortiAP 設備



QuickStart Guide



安裝支架



1 安全梅花螺絲  
+ 1 十字槽螺絲



4 螺絲



4 螺絲錨栓



快速安裝影片

<https://video.fortinet.com/video/177/fortigate-and-fortiap>

# 安裝前準備

寫下下列資料，通常由您的網管人員或 ISP 提供。

## Static IP address

IP address \_\_\_\_\_

Subnet Mask \_\_\_\_\_

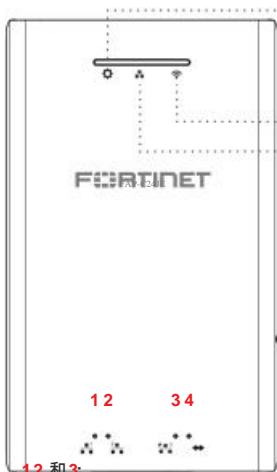
Default Gateway \_\_\_\_\_

Primary/Secondary DNS \_\_\_\_\_

## DHCP

通常不需要 hostname，但是您的 ISP 可能會要求提供。

Hostname \_\_\_\_\_



## SYSLED

不亮：沒上電  
亮：正常工作  
閃爍：開機中

## WIFI LED

不亮：射頻已禁用或關閉  
綠色：射頻啟用  
閃綠色：射頻動作中

## WAN LED

不亮：沒連線  
亮：已連線  
閃爍：動作中

## Reset button

按下並維持 10 秒內：重開機

按下並維持超過 10 秒：回到工廠  
初始值

1, 2, 和 3:

## LAN1/2/3 LED

不亮：沒連線  
亮：已連線  
閃爍：動作中

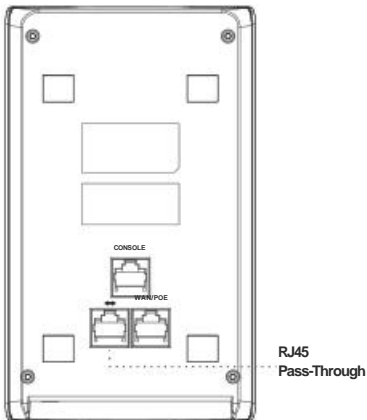
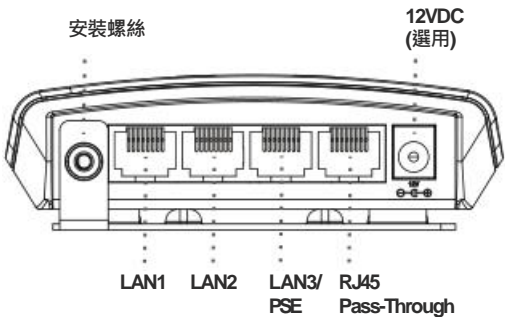
## 4: PSE LED

不亮：沒 PSE 輸出  
亮：PSE 輸出中(最大 4W)  
閃爍：PSE 負載超出上限

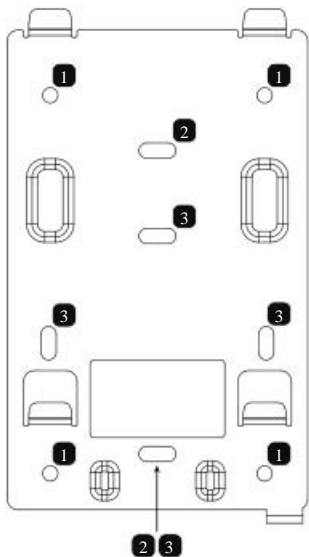
備註——PSE 最大輸出是 4W，如果 FAP-C24JE 是由 802.3af (15.4W) 供電

- PSE 最大輸出是 802.3af (15.2W)，如果是由 802.3at (25.5W) 供電

- PoE 輸出只有在電源是 PoE 的時候





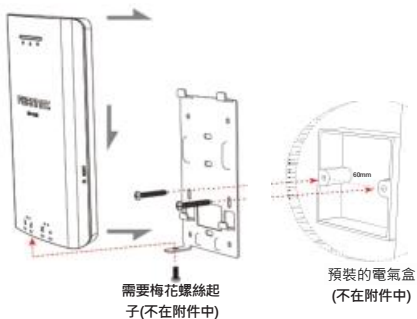


**1** 壁掛孔位

**2** 接線盒：北美、日本、澳洲/紐西蘭

**3** 接線盒：歐盟、英國、中國、澳洲/紐西蘭、韓國

# 1 安裝



本設備可以使用所提供的安裝硬體安裝在連接盒上，建議使用安全梅花螺絲安裝 FAP-C24JE 到安裝支架上，以提高安全性(附件不包括梅花螺絲起子)。

安裝硬體的孔位可以符合下列的牆上電氣盒，北美、歐盟、英國、中國、日本、澳洲/紐西蘭和韓國。

## 2 基本連線



連接此 FortiAP 設備到 FortiGate 控制器或網際網路連線。

確認網路供電纜線(PoE)連接到 FortiGate 設備或 PoE 供電器。

**注意：**必須按照當地的電氣規範或法規，對 FortiAP 設備和 PoE 供電器提供足夠的接地。

**警告：**本設備符合 IEEE 802.3af PoE 規範，請勿使用任何不符合 IEEE 802.3af 標準的 PoE 供電器，他們可能會損壞您的設備。

### 3 FortiAP 設定

A 使用 FortiCloud 進行雲配置



或

B FortiGate 在本地網路上配置



FortiAP 設定影片

<https://video.fortinet.com/video/92/basic-fortiap-setup>

# A FortiCloud

1. 到 <http://www.forticloud.com> 登入或建立新帳號。
2. 選擇現有的 AP Network 或建立新的。  
要建立新的網路，到 [Add AP Network](#) 然後輸入 [AP Network Name](#) 和 [AP Password](#)。
3. 在左邊面板，選擇 [Deploy APs](#)。
  - 列表中沒有 AP：出現 [Add AP](#) 對話框  
或
  - 列表中有 APs：點選 [+AP](#) 按鈕
4. 輸入在 FortiAP 設備上特定的 FortiCloud Key，  
然後點選 [Submit](#)。

注意：當創建新網路時，AP 密碼將應用於該 AP 網路中的所有 AP。

## B 透過 FortiGate 進行部署

FortiGate 支援可能適用於某些地區代碼，請參閱產品規格書或與 Fortinet 業務聯繫以獲取詳細資訊。此外，請確保您在 FortiGate 和 FortiAP 設備上都運行推薦的 Fortinet 軟體版本。請上 [support.fortinet.com](http://support.fortinet.com) 了解更多信息。

如果 FortiGate 與 FortiAP 在同一個網域上：

1. 使用 FortiGate 對 FortiAP 設備進行預授權。
2. 請參閱位於 <http://forti.net/ap-docs> 的 FortiWiFi and FortiAP Configuration Guide 的“Access Point Deployment”部分。
3. 將 FortiAP 插入本地 Ethernet 連接，FortiAP 將自行配置。

或

1. 將 FortiAP 連接到網路後，您可以使用 FortiGate 來授權 FortiAP 設備，而不是進行預授權。
2. 在將 FortiAP 連接到 FortiGate 的兩分鐘內，設備將出現在受管設備上。

在網頁管理介面上的 FortiAP 頁面：授權並指派配置文件給設備。



如果 FortiGate 與 FortiAP 不在同一網路上：

1. 使用用戶名 **admin**(無密碼)直接登入 FortiAP(IP 地址：192.168.1.2)，並指定控制 FortiGate 的 IP 地址。
2. 通過 CLI 連接到 FortiAP(請參閱 FortiWiFi and FortiAP Configuration guide 中的“Connecting to FortiAP CLI”)。
3. 指定控制 FortiGate 的 IP 地址：  
`config capwap wtp acIpAddr 0.0.0.0`
4. FortiAP 設備連接到 FortiGate，然後您可以授權 FortiAP。

# 注意事項與警告

## 環境規格

環境工作溫度：0–40°C

*有關環境規格（工作溫度、儲存溫度、濕度和海拔高度），請參閱特定產品型號的規格表。*

## 安全

警告：此設備要在 IECTR 62101 的 Network Environment 0 中使用。

本產品僅連接到 PoE 網絡，無需路由到外部工廠。

本產品電源由標記為 LPS 或 Class 2 的 Listed Direct Plug-In Power Unit 提供，額定 12Vdc/1A 或來自 48Vdc 的 PoE 電源。



# Regulatory Notices

## Federal Communication Commission (FCC) - USA

This device complies with Part 15 of 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.

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 residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it 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.

**WARNING:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Caution:** Operation of this device is restricted to indoor use only.

For operation within 5.15~5.25GHz frequency range, it is restricted to indoor environment. The band from 5600-5650MHz will be disabled by the software during the manufacturing and cannot be changed by the end user.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

# Industry Canada Equipment Standard for Digital Equipment (ICES) - Canada

CAN ICES-3(B) / NMB-3(B)

## Innovation, Science and Economic Development (ISED) - Canada

This device complies with Industry Canada's licence-exempt RSSs. 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'Industrie Canada 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.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS102 et la conformité à l'exposition de RSS-102 rf, les utilisateurs peuvent obtenir l'information canadienne sur l'exposition et la conformité de RF.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être co-placé ou fonctionner en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the i.r.p. limits specified for point-to-point and non-point-to-point operations as appropriate.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

Caution: The device for the band 5150-5250MHz is only for indoor use to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350MHz and 5650-5850MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Attention: Le dispositif de la bande 5150-5250MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal. Les radars à haute puissance sont désignés comme utilisateurs principaux (à savoir les utilisateurs prioritaires) des bandes 5250-5350MHz et 5650-5850MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN.

Caution: The maximum antenna gain permitted for devices in the bands 5250-5350MHz and 5470-5725MHz shall comply with the e.i.r.p. limit; and the maximum antenna gain permitted for devices in the band 5725-5825MHz shall comply with the e.i.r.p. limits specified for point-to-point and nonpoint-to-point operation as appropriate.

Attention: Le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350MHz et 5470-5725MHz doit se conformer à la limite de p.i.r.e.; le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

This radiotransmitter 7280B-24100045 has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio 7280B-24100045 a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne(s) ne doit pas être co-localisés ou fonctionner en association avec une autre antenne ou un transmetteur.

Ant.	Brand Holder	Model Name	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
1	ACX	AT3216-T2R4PAA	PCB	--	1.5	
2	ACX	AT3216-A5R5HAA	PCB	--		2

## European Conformity (CE) - EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and equal to or less than the power listed below:

2412-2472MHz less than 20dBm

5180-5240MHz less than 20dBm

5260-5320MHz less than 20dBm \*

5500-5700MHz less than 20dBm \*

Note: \* Only with DFS bands certification.

## Simplified EU Declaration of Conformity

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### Български

Този продукт е в съответствие с Директива 2014/53/ЕС.

### Česky

Tento produkt je v souladu s směrnicí 2014/53/EU.

### Dansk

Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

### Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

### Eesti

See toode vastab direktiivile 2014/53/EL.

### English

This product is in compliance with Directive 2014/53/EU.

### Español

Este producto cumple con la Directiva 2014/53/UE.



Ελληνική

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français

Ce produit est conforme à la Directive 2014/53/UE.

Hrvatski

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano

Questo prodotto è conforme alla Direttiva 2014/53/UE.

Latviski

Šis produkts atbilst Direktīvai 2014/53/EU.

Lietuvių

Šis gaminyš atitinka direktyvą 2014/53/ES.

Malti

Danil-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar

Ez a termék megfelel a 2014/53/EU irányelvnek.

Nederlands

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Norsk

Dette produktet er i samsvar med direktiv 2014/53/EU.

Polski

Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Português

Este produto está em conformidade com a Diretiva 2014/53/UE.

Rumunski

Acest produs este în conformitate cu Directiva 2014/53/UE.

Slovensky

Tento produkt je v súlade s smernicou 2014/53/EÚ.

Slovensko

Taizdelek je v skladu z Direktivo 2014/53/EU.

Suomi

Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska

Den här produkten överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available at the link below:

<https://site.fortinet.com/ProductRegulatory/EU>

# National Telecommunications Commission (NCC) - Taiwan

## NCC 警語

### 依據 NCC 低功率電波輻射性管理辦法規定:

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商業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。

第十四條 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。

4.7.9.1 應避免影響附近雷達系統之操作。

4.7.9.2 高增益指向天線只得應用於固定式點對點系統。

前項合法通信，指依電信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設備之干擾。

NCC 電磁波曝露量MPE標準值： $1\text{mW}/\text{cm}^2$ ，送測產品實測值為： $0.23935\text{mW}/\text{cm}^2$ 。

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so

that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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How to configure Wi-Fi networks using the FortiGate Wi-Fi controller & FortiAP units.

<http://forti.net/ap-docs>

## Video Guides

How FortiCloud can be used to manage FortiAP & more.

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