



APPLICATION DELIVERY CONTROLLER

FortiADC™ 400F

QuickStart Guide



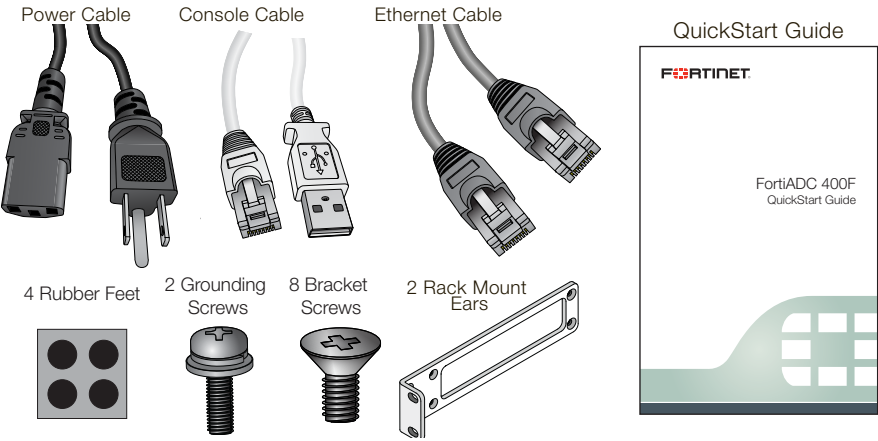
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Package contents

The box should contain:

- FortiADC 400F appliance
- FortiADC 400F QuickStart Guide
- Power cable
- Console cable
- Ethernet cable
- 4 Rubber feet
- 2 Grounding screws
- 8 Bracket screws
- 2 Rack mount ears

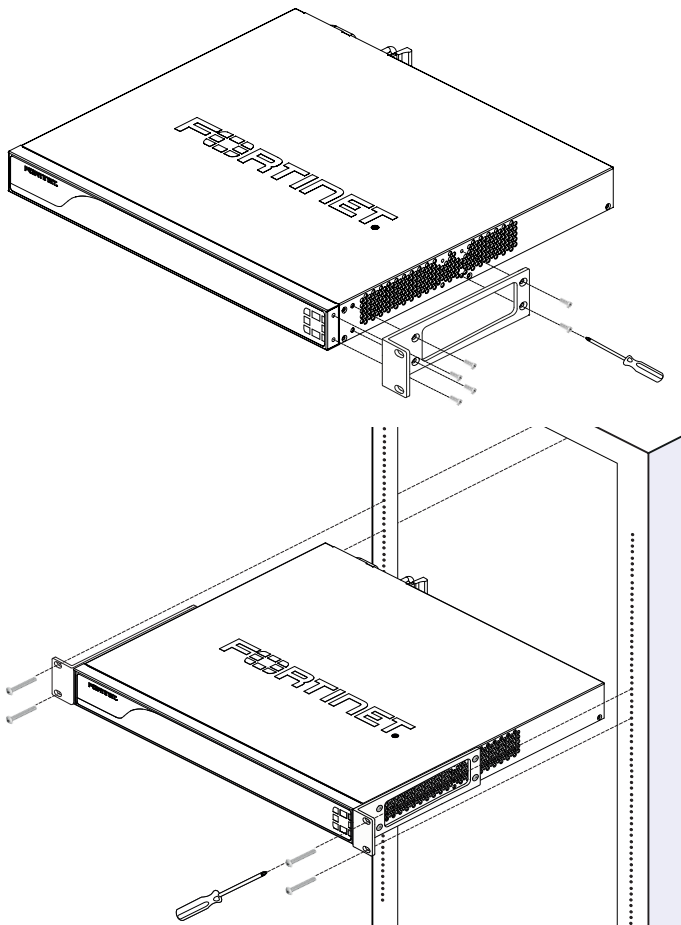


Rack mounting

FortiADC appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security. Mount the appliance in any standard 19 inch (48.3 cm) rack with the rack-mount brackets.

In a rack, a FortiADC 400D occupies 1U (1.77 in/4.45 cm).

- **2-post rack:** Attach the rack-mount brackets to the **middle** of each side of appliance so that its weight is distributed evenly.
- **4-post rack:** Attach the rack-mount brackets to the **front** of each side of the appliance with flanges facing outwards, towards the notches in the rack.

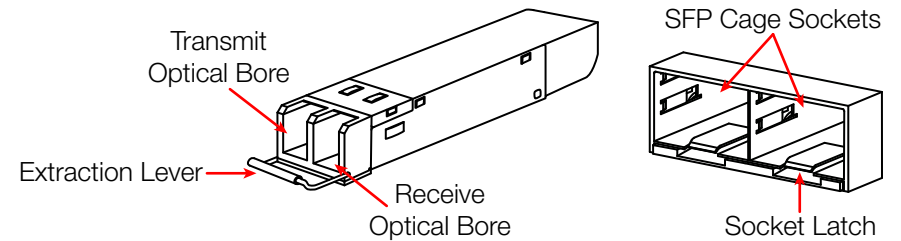


Installing SFP transceivers

If not already installed, install the SFP/SFP+ transceivers that will be used to connect your appliance to the network.

Caution: Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and optical interfaces. It may also prevent the transceiver from latching correctly into the socket.

Note: Installing and removing SFP transceivers can shorten their life. Do not install or remove transceivers more than is necessary.



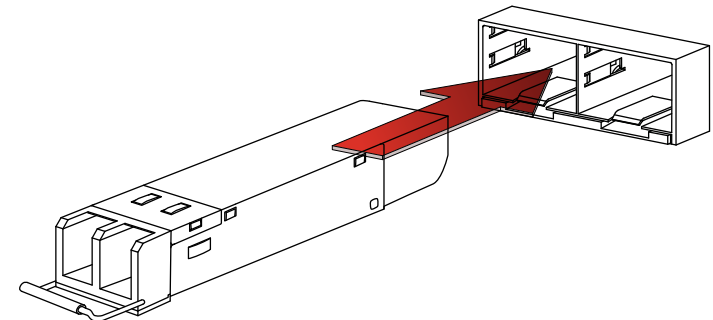
To install the SFP transceivers

1. On the appliance's front panel, remove the caps from SFP cage sockets.
2. Position the SFP transceiver in front of the cage socket so that the extraction lever is level with the socket latch.

Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented.

3. Holding the sides of the SFP transceiver, gently slide it into the cage socket.

Caution: Do not force SFP transceivers into cage sockets. Force can cause damage. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign or rotate it, and try again.



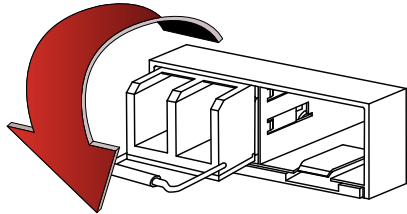
4. Press the transceiver firmly into the cage socket with your thumb until it clicks, indicating that it is latched.
5. To verify that the transceiver is latched, grasp its sides and try to pull it out **without** lowering the extraction lever.

If you can remove the transceiver, it was **not** latched correctly, and could become accidentally dislodged. Try again.

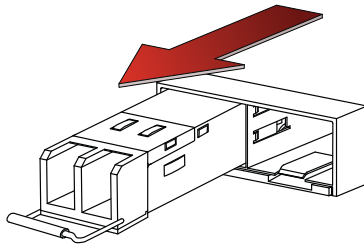
To remove the SFP transceivers

1. Disconnect the fiber optic cable from the transceiver connector.
2. To prevent dust from entering the optical bores, insert clean plugs.
3. To eject the transceiver, pull the extraction lever out and down.

Tip: Instead of using your finger, try a small flat-head screwdriver.



4. Hold the sides of the transceiver and carefully pull it from the cage socket.



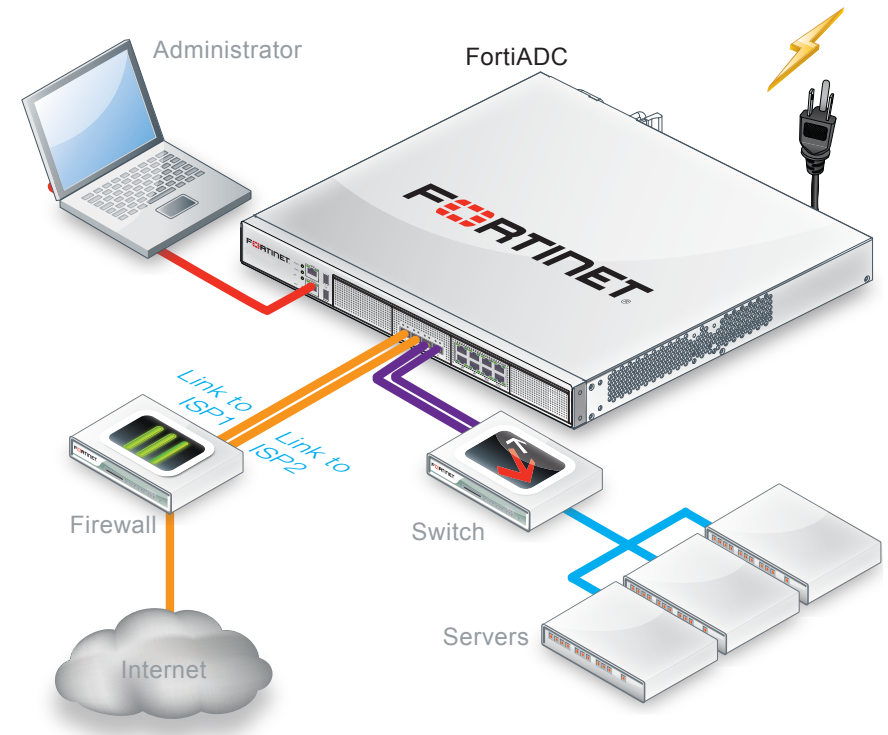
5. Replace the cap on the SFP cage socket.
6. Put the removed SFP transceiver into an anti-static bag.

Connecting to FortiADC

If the appliance has a redundant power supply, connect each power cable to a different power source.

You can configure FortiADC for your network through a connection to either its web UI or command line interface (CLI).

Connect FortiADC only to your computer until you finish setup. (If you place FortiADC in your network before FortiADC is set up, traffic could be interrupted until setup is complete.) Deployment instructions are in the [FortiADC Handbook](#). One typical, basic network topology is shown below.



To connect to the web UI

Requires: Microsoft Internet Explorer 8, Mozilla Firefox 20, Apple Safari 6, or Google Chrome 20 or newer

1. Using the Ethernet cable, connect port1 of the appliance to your computer.
2. Configure your computer to match the port1 default subnet.
For example, from the Windows 7 Control Panel, go to Network and Sharing Center. Click the **Local Area Connection** link, and then click the **Properties** button. Select **Internet Protocol Version 4 (TCP/IPv4)**, and then click its **Properties** button. Select **Use the following IP address**, and then enter the following settings:
 - IP address: 192.168.1.2
 - Subnet mask: 255.255.255.0
3. To connect to the web UI, start a web browser and go to <https://192.168.1.99>.
4. Type `admin` in the Name field, leave the Password field blank, then click **Log in**.

To connect to the CLI via USB console

Requires: Terminal emulator such as PuTTY, Tera Term, or a terminal server

1. Using the console cable, connect the appliance console port to your terminal server or computer.
2. On your computer or terminal server, start the terminal emulator. Use these settings:
 - Baud rate: 9600
 - Data bits: 8
 - Parity: None
 - Stop bits: 1
 - Flow control: None
3. Press Enter on your keyboard to connect to the CLI.

Shutting down



Always properly shut down the FortiADC appliance's operating system before turning off the power switch or unplugging the appliance. This causes it to finish writing buffered data, and to slow and park the hard disks.

Do not unplug or switch off the FortiADC appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.

To power off the appliance via the web UI

1. Go to System > Status > Dashboard.
2. In the System Information widget, click the **Shut Down** button.
You might be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.
3. Disconnect the power cable from the power supply.

To power off the appliance via the CLI

1. Either connect to the CLI using a terminal emulator, or connect to the web UI and go to the CLI Console widget in System > Status > Dashboard.
2. Enter the following command:

```
execute shutdown
```


You might be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.
3. Disconnect the power cable from the power supply.

Registering your product

Register

You must register the product with Fortinet in order to receive:

- Technical support
- Software updates

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Mises-à-jour logiciel

Registra

La registrazione vi permette di usufruire di:

- Supporto tecnico
- Aggiornamenti software

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Actualizaciones del software

登録のお願い

下記フォーティネットからのサービスを受けるために、ご購入製品の登録が必要です。

- テクニカルサポート
- ソフトウェアのアップデート

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持, 软件升级



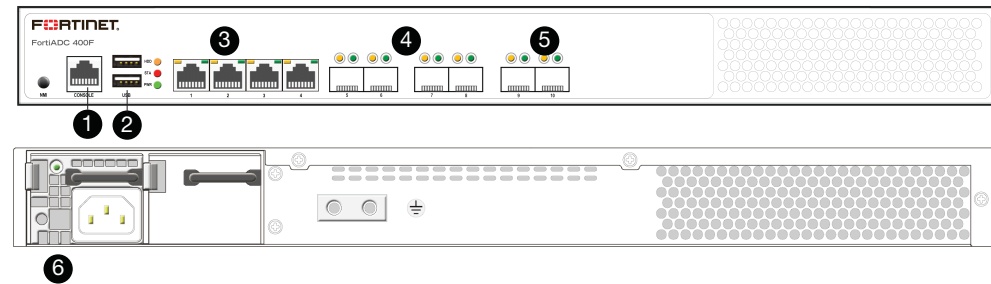
Web: <https://support.fortinet.com/>

Toll free: 1 866 648 4638

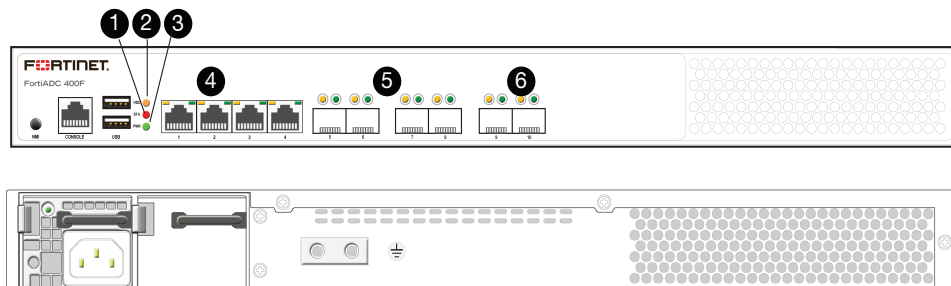
Fax: 1 408 235 7737

Email: register@fortinet.com

Ports & LEDs



#	Interface	Type	Protocol	Description
1	Console	RJ-45	RS-232 Serial	Connection to the management computer. 9600 bps access to the CLI.
2	USB Ports	USB-B	USB 3.0	Reserved for future use.
3	Ethernet Ports (Ports 1-4)	RJ-45	Gigabit Ethernet	Connections to your network & the Internet
4	SFP Ports (Ports 5-8)	SFP LX or SX	Gigabit Ethernet	Connections to your network & the Internet. Small form-factor pluggable (SFP) transceiver.
5	SFP+ Ports (Ports 9-10)	SFP+ LR or SR	10-Gigabit Ethernet	Connections to your network & the Internet. SFP + Transceiver
6	Power Connection(s)			Hot-Swappable Power Supply, 100-240 VAC, 5-3A, 50/60Hz (x2)



#	LED	State	Description
1	HDD (top)	Flashing Amber	Hard drive read or write activity.
2	Status (middle)	Off	System is normal.
		Red	System failure.
3	Power (bottom)	Green	The appliance is receiving power.
		Flashing Amber	Port is transmitting & receiving data.
4	Ethernet Ports Activity (left)	Off	No link detected.
		Green	Port is connected at 1 Gbps.
		Amber	Port is connected at 100 Mbps.
		Off	Port is connected at 10 Mbps or is not in use.
5	SFP Ports Activity (left)	Flashing Amber	Port is transmitting & receiving data.
		Off	No link detected.
		Green	Port is connected at 1 Gbps.
		Off	No link detected.
6	SFP+ Ports Activity (right)	Green	Link detected.
		Flashing Green	Port is transmitting & receiving data.
		Off	No link detected.
		Off	No link detected.

Cautions and warnings

Environmental specifications

Ambient operating temperature: 0°C to 40°C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T_{ma}) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Surtenion – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Fiabilité de la mise à la terre – Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Moving parts — Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles — Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Warning: A readily accessible disconnect device shall be incorporated in the building installation wiring.
Avertissement: Un dispositif de déconnexion facilement accessible doit être incorporé dans l'installation électrique du bâtiment.

Battery — Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.
Batterie — Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION:
There is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.
Dispose batteries of according to the manufacturer's instructions.
Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in an explosion.
Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.
If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

WARNUNG:

Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen.

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann

Verlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

CAUTION: Shock Hazard. Disconnect all power sources.

ATTENTION: Risque d'électrocution. Débranchez toutes les sources d'alimentation.

Warning: Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltage on accessible metal parts.

Avertissement: Équipement de classe I. Cet équipement doit être mis à la terre. La fiche d'alimentation doit être connectée à une prise de terre correctement câblée. Une prise de courant mal câblée pourrait placer une tension dangereuse sur les pièces métalliques accessibles.

Warning: All Ethernet cables are designed for intra-building connection to other equipment. Do not connect these ports directly to communication wiring or other wiring that exits the building where the appliance is located.

Avertissement: Tous les câbles Ethernet sont conçus pour une connexion intrabâtiment à d'autres équipements. Ne connectez pas ces ports directement au câblage de communication ou à tout autre câblage qui sort du bâtiment où se trouve l'appareil.

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 A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

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

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-003 (A) / NMB-003 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

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



Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

V C C I – A

Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法(PSE)の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:

限用物質含有情況表 (RoHS Table) 請到以下 網址下載:
<https://www.fortinet.com/bsmi>

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

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電話：(02) 27961666

China

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FortiADC 400F QuickStart Guide

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