



FortiWiFi 20C-ADSL-A

QuickStart Guide



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Package Contents

Thank you for purchasing the FortiWiFi 20C-ADSL-A.

Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

Your box contains the following:

FortiWiFi 20C-ADSL-A

QuickStart Guide (with Wall Mount Template)

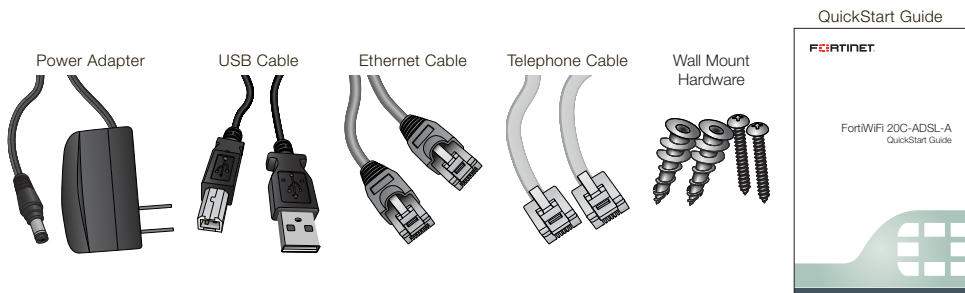
Power Adapter

USB Cable

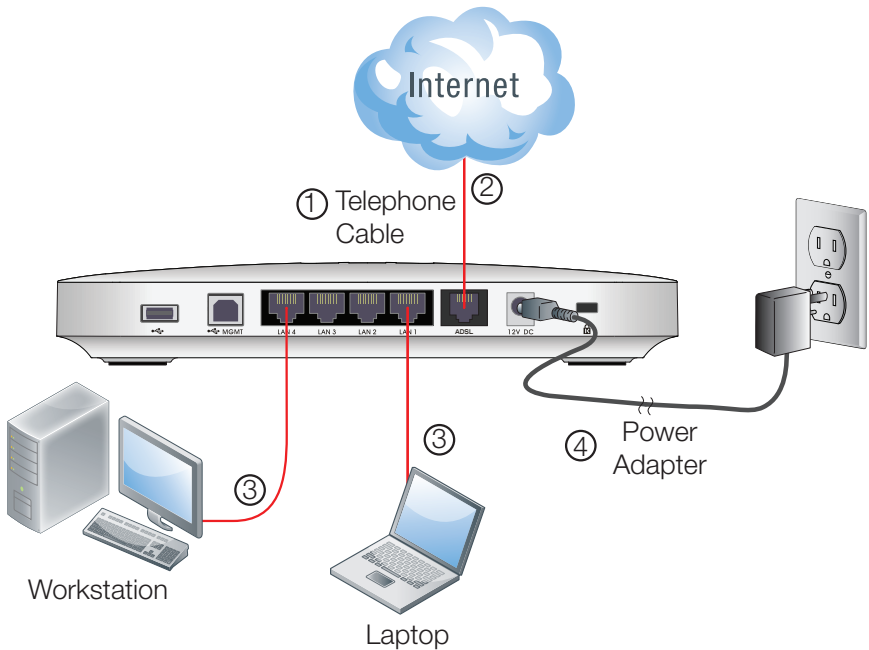
Ethernet Cable

Telephone Cable

Wall Mount Hardware



Connecting Your Device



Ensure the FortiWiFi unit is placed on a stable surface prior to initial configuration and installation.

Caution: To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord

Caution: Electrostatic discharge (ESD) can damage your Fortinet equipment.

Caution: Do not place heavy objects on the unit.

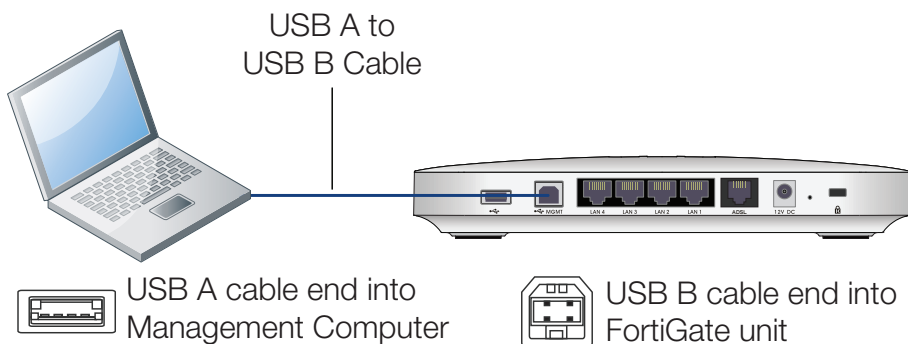
Connect Devices

1. Connect a telephone cable to the ADSL port.
2. Connect the other end of the telephone cable to your network or ADSL Internet connection.
3. Connect an Ethernet cable to each computer you wish to connect to the FortiWiFi unit.
4. Connect the power adapter to the FortiWiFi unit and plug the other end of the cable into an electrical outlet.

FortiExplorer

FortiExplorer provides a user-friendly tool that you can use to configure a FortiWiFi unit over a standard USB connection, rather than using a console cable or Ethernet connection.

Caution: Do not connect the USB cable until after FortiExplorer has been installed.



Note: When using FortiExplorer for the first time, ensure the FortiWiFi unit is using its factory default settings.

Installing FortiExplorer

FortiExplorer is available for Microsoft Windows XP, Vista, and 7. It is also available for Mac OS X 10.6 and higher.

Microsoft Windows Install

1. Extract the ZIP file (if downloaded) and double-click the .msi, or .exe file and follow the instructions on-screen.
2. Connect the USB cable to the FortiWiFi unit and then to the management computer.
3. The FortiExplorer Easy Configuration Utility opens when the USB cable is connected. Select *Install the hardware automatically* and select *Next*.
4. After a moment, FortiExplorer will launch.

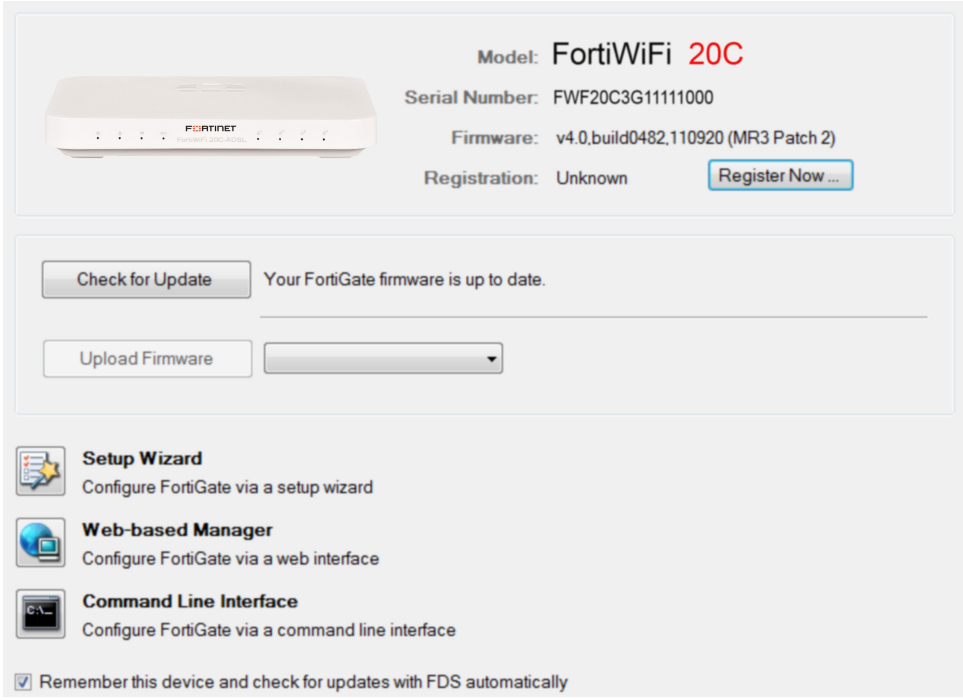
Mac OS X Install

1. Double-click the .dmg file and drag the FortiExplorer program file into the Applications folder.
2. Connect the USB cable to the FortiWiFi unit and then to the management computer.
3. Double-click the FortiExplorer icon to launch the application.

Configuration Options

With FortiExplorer, you are provided a number of options on how to configure the FortiWiFi unit, depending on your level of comfort with various interfaces.

The below image shows the FortiExplorer Easy Configuration Wizard.



The screenshot displays the FortiExplorer Easy Configuration Wizard. At the top, it shows the device model as **FortiWiFi 20C** in red text. Below this, the serial number is **FWF20C3G11111000** and the firmware version is **v4.0.build0482,110920 (MR3 Patch 2)**. The registration status is **Unknown**, with a **Register Now ...** button. To the left of this information is an image of the FortiWiFi 20C device. Below the device information, there is a **Check for Update** button and a message: **Your FortiGate firmware is up to date.** Underneath this, there is an **Upload Firmware** button and a dropdown menu. At the bottom of the wizard, there are three options for configuring the FortiGate: **Setup Wizard** (Configure FortiGate via a setup wizard), **Web-based Manager** (Configure FortiGate via a web interface), and **Command Line Interface** (Configure FortiGate via a command line interface). At the very bottom, there is a checkbox labeled **Remember this device and check for updates with FDS automatically**, which is currently checked.

Updating FortiExplorer and Firmware

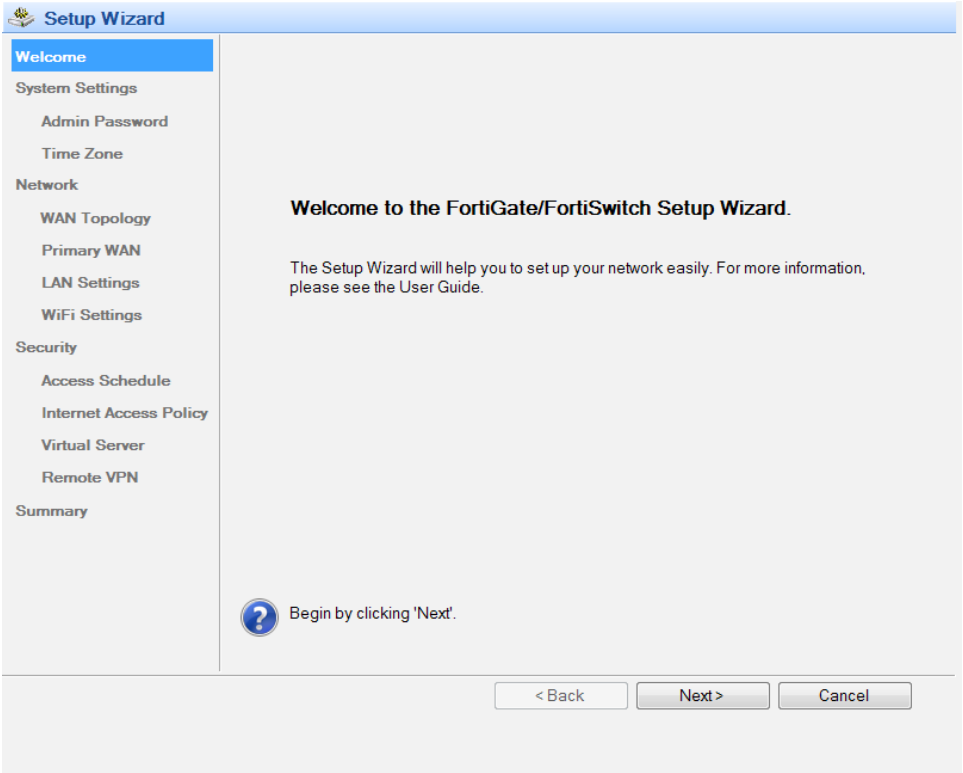
FortiExplorer may be automatically updated from time to time.

You can also use FortiExplorer to check for new firmware for a FortiWiFi unit. To check for new firmware, select the FortiWiFi unit from the device list and select *Check for New Firmware*. FortiExplorer will also monitor firmware updates for your devices and provide an alert when one is available.

Configuration Options

The FortiWiFi unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

You can complete these basic steps using FortiExplorer's built-in Setup Wizard. The wizard also allows you to change your administrator password, set your time zone, and adjust security settings.



Note: If you are unsure of your network settings, contact your network administrator or internet service provider.

In addition to FortiExplorer, the FortiWiFi unit can be configured using the Web-based Manager with the method on the following page.

To connect to the Web-based Manager:

1. Connect a FortiWiFi unit Ethernet port to a management computer using the provided Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiWiFi unit:

Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.

Change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.

3. To access the FortiWiFi unit Web-based Manager, start a browser of your choice and browse to <https://192.168.1.99> (remember to include the “s” in https://).
4. Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.

You can now proceed with the configuration of your FortiWiFi unit.

To configure the LAN4 interface as a WAN interface

1. To configure the LAN4 interface as a WAN interface, enter the following CLI commands:

```
config system global
    set wan enable [diabie by default]
end
Do you want to continue? (y/n) y
```

2. The FortiWiFi unit will reboot and the LAN4 interface will be set as a WAN interface.

To reset the unit to factory default settings

1. Connect the power adapter to the FortiWiFi unit and plug the other end of the cable into an electrical outlet.
2. Wait for the Status LED to change from flashing green (1Hz) to green or amber.
3. Immediately after Step 2, press the reset button for 5 seconds. The Status LED will change to flashing green (5Hz) to indicate that the reset signal is received by the kernel.
4. The FortiWiFi unit will reboot.

You can now proceed with configuring your FortiWiFi unit.

To reset the unit to factory default settings from the CLI

To reset the FortiWiFi 20C-ADSL-A to the factory default settings from the CLI, enter the following command:

```
execute factoryreset
```

To shutdown the unit

When powering off the FortiWiFi unit, always shutdown the unit using the following procedures before disconnecting the power supply. To shutdown the FortiWiFi unit using the CLI, enter the following command:

```
execute shutdown
```

You can also shutdown the FortiWiFi unit in the Web-based Manager. Go to *System > Dashboard > Status*, select *Shutdown* in the Unit Operation widget, and select *OK*.

ADSL default settings

The FortiWiFi 20C-ADSL-A comes with the following ADSL settings configured by default:

Virtual Channel Identifier (VCI): 35

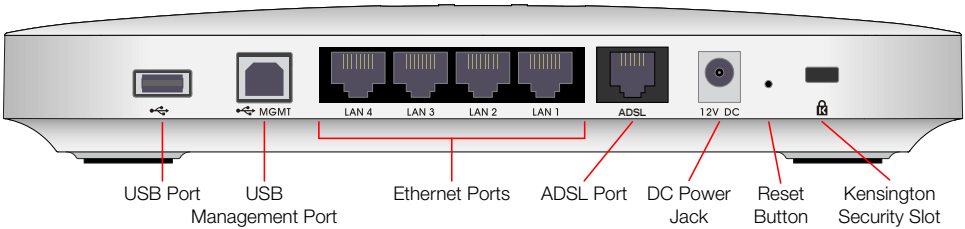
Virtual Path Identifier (VPI): 0

Multiplexor Type (MUX): LLC Encapsulation

Connection Type: DHCP

Note: Contact your internet service provider (ISP) to confirm which addressing mode is supported for your region. Your ISP will be able to confirm the VCI, VPI, MUX setting, and connection type.

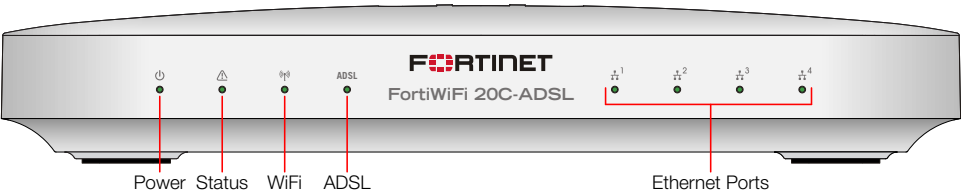
Technical Specifications



Interface	Type	Protocol	Description
Ethernet Ports 1 - 4	RJ-45	Gigabit Ethernet	FortiASIC-accelerated switched Ethernet ports for connection to your network and the Internet.
ADSL	RJ-11	ADSL	ADSL connection.
USB	USB-A	USB 2.0	USB server ports for USB key, modem, or management functions.
USB MGMT	USB-B	USB 2.0	USB client port for management.
WiFi	Wireless	802.11 a/b/g/n	Dual-band omni directional radio supports 802.11 a/b/g/n wireless connectivity.

Hardware Specification	Description
AC Power	100-240V AC, 50-60HZ
Wall Mountable	Yes
Kensington Security Slot	Anti-theft security slot for attaching a lock-and-cable apparatus.
Reset Button	Hold for 5 seconds to reset the FortiWiFi unit to factory default settings.

LED Specifications



LED	State	Description
POWER	Green	The unit is on.
	Off	The unit is off.
STATUS	Green	The unit is operating normally.
	Flashing Green	1Hz (1 times per second): The unit is booting up.
		5Hz (5 times per second): Reset signal is received by kernel.
	Amber	The unit has a fault.
WiFi	Flashing Green	Wireless port is active.
	Off	Wireless interface is down.
ADSL	Green	ADSL has good synchronization.
	Flashing Green	ADSL is attempting to synchronize: 2Hz (2 times per second): Unit is trying to detect a carrier signal 4Hz (4 times per second): Unit is trying to train detected carrier signal.
	Amber	Link is connected with no traffic.
	Flashing Amber	Link activity at 10Mbps.
	Off	Modem is not powered.
	Green	Connected at 1000/100Mbps.
	Amber	Connected at 10Mbps.
Ethernet Ports	Flashing Green	Link activity at 1000/100Mbps.
	Flashing Amber	Link activity at 10Mbps.
	Off	No link established.

Documentation and Links

The following Fortinet web pages provide information and resources for your Fortinet product:

1. Customer Service & Support: <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

2. Technical Documentation: <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products. The following guides more information on the installation and configuration of your FortiGate unit:

- **Hardware Guide:** This guide describes how to mount your FortiGate unit, hardware acceleration, and configuring Redundant Array of Independent Disks (RAID).
- **System Administration Guide:** This guide describes initial configuration of your FortiGate unit, centralized management, tightening security, best practices, and configuration examples.
- **Fundamentals Guide:** This guide describes NAT versus Transparent mode, packet flow and inspection, firewall components, virtual IPs, security policies, UTM profiles, and troubleshooting traffic.
- **UTM Guide:** This guide includes examples and step-by-step instructions for the UTM features available on your FortiGate unit, such as AntiVirus, intrusion prevention system (IPS), web and email filtering, Data Leak Prevention (DLP), and application control.
- **Troubleshooting Guide:** This guide describes the troubleshooting process and best practice concepts, how Fortinet Support operates, and diagnostic commands in the CLI.

3. Knowledge Base: <http://kb.fortinet.com>

This page provides Fortinet technical documentation, such as troubleshooting, how-to articles, example configurations, FAQs, technical notes, and more.

4. Technical Discussion Forums: <http://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

5. Training Services: <http://training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

6. FortiGuard Threat Research and Response: <http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to techdoc@fortinet.com.

Cautions and Warnings

Please review the following cautions and warnings.

Environmental and mounting specifications

Operating temperature: 0 - 40°C (32 - 104°F)

Storage temperature: -25 - 70°C (-13 - 158°F)

Humidity: 20 to 90% non-condensing

Operating Altitude: <2250m (7400ft)

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.

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.

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

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.

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).

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.

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 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: Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

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

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

This device complies with RSS-210 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

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

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Caution: The device for the band 5150-5250 MHz is only for indoor usage 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 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement: Les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux. De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

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.



Grounding

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet CAT5 (10/100 Mb/s) surge protector.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

Note: For DC installations, a readily accessible disconnect device shall be incorporated in the building installation wiring.

Caution: For devices that contain a battery there is a risk of explosion if battery is replaced by an incorrect type. Recycle used batteries according to your local regulations.

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

China



仅适用于海拔2000m以下地区安全使用

Register Your Product

If you did not register your Fortinet product using the FortiExplorer wizard, please register your product now.

Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

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本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

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

Toll free: 1 866 648 4638

Phone: 1 408 486 7899

Fax: 1 408 235 7737

Email: register@fortinet.com

Product License Agreement

Product License Agreement

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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:

- 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.)
- 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.
- 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.
- 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.
- 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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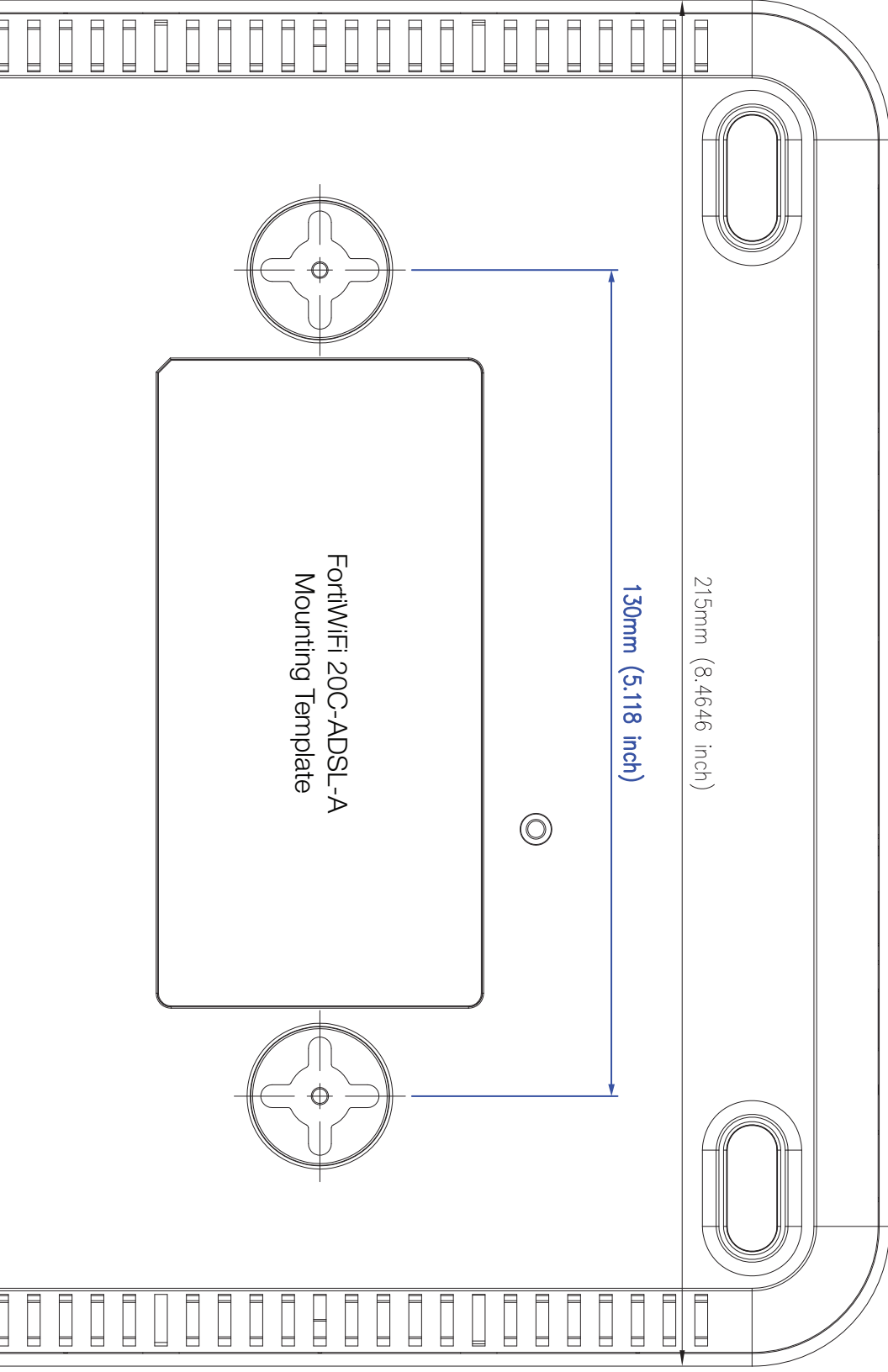
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215mm (8.4646 inch)

130mm (5.118 inch)

FortiWiFi 20C-ADSL-A
Mounting Template