



airFiber®

5 GHz Point to Point 1.0+ Gbps Radio Models: AF5, AF5U *ai*rFiber°

QUICK START GUIDE

Introduction

Thank you for purchasing the Ubiquiti Networks™ airFiber® 5 GHz Point-to-Point 1.0+ Gbps Radio. This Quick Start Guide is designed to guide you through the installation, show you how to access the airFiber Configuration Interface, and explain how to set up an airFiber link. This Quick Start Guide also includes the warranty terms and is for use with the following models:

Model	Description	Operating Frequency*
AF5	Supports mid-band frequencies	5470 - 5950 MHz
AF5U	Supports high-band frequencies	5725 - 6200 MHz

^{*} Refer to the Specifications section for more information.

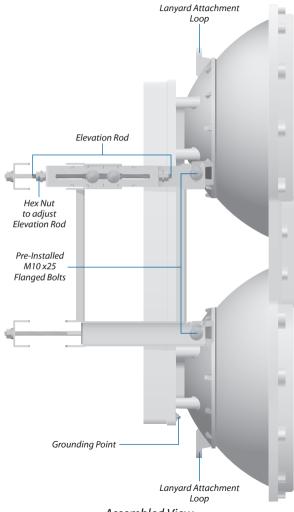
Package Contents



TERMS OF USE: Ubiquiti radio devices must be professionally installed. Shielded Ethernet cable and earth grounding must be used as conditions of product warranty. TOUGHCable[™] is designed for outdoor installations. It is the customer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements.

Hardware Overview

Side



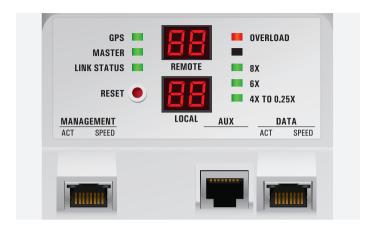
Assembled View

Interfaces



Interface	Description
Reset Button	To reset to factory defaults, press and hold the Reset button for more than five seconds while the unit is already powered on.
Remote Display	Displays the received signal strength in dBm of the remote airFiber radio.
Local Display	Displays the received signal strength in dBm of the local airFiber radio.
Management Port	10/100 Mbps, secured port for configuration. By default, this is the only port that can monitor, configure, and/or update firmware.
Aux Port	Port for audio tone aiming.
Data Port	10/100/1000 Mbps port handles all user traffic.

LEDs



LED	State	Status
	Off	No GPS Synchronization
GPS	On	Operational (Strong Signal)
	Normal Flash*	Non-Operational (Weak Signal)
Master	Off	Slave mode
Master	On	Master mode
	Off	RF Off
	Short Flash*	Syncing
Link Status	Normal Flash*	Beaconing
	Long Flash*	Registering
	On	Operational
Remote	On	Displays the received signal strength in dBm of the remote airFiber radio.

LED	State	Status
Local	On	Displays the received signal strength in dBm of the local airFiber radio.
Overload	Fast Flash	Overload Condition
(reserved)	-	-
8x	On	256QAM MIMO
бх	On	64QAM MIMO
	On	16QAM MIMO
4,, 40, 0, 35,,	Long Flash*	QPSK MIMO
4x to 0.25x	Normal Flash*	1x QPSK xRT™**
	Short Flash*	1/4x QPSK xRT**

^{*} Short Flash (1:3 on/off cycle) Normal Flash (1:1 on/off cycle) Long Flash (3:1 on/off cycle) ** xtreme Range Technology

Port LEDs

	LED	State	Status
		Off	No Ethernet Link
	Act	On	Ethernet Link Established
Management		Random Flashing	Ethernet Activity
nagel	Chood	Off	10 Mbps
Ma	Speed Speed	On	100 Mbps
	Act	Off	No Ethernet Link
		On	Ethernet Link Established
		Random Flashing	Ethernet Activity
ø	Connect	Off	10/100 Mbps
Data	Speed	On	1000 Mbps

Installation Requirements

Pre-Assembly Tool

• 13 mm (½") wrench

Pole-Mounting Tool

• 17 mm (11/16") wrench

Other Requirements

- · Clear line of sight between airFiber radios
- · Clear view of the sky for proper GPS operation
- · Vertical mounting orientation
- Mounting location with < 0.5° displacement due to twist and sway under wind loading
- Mounting point:
 - · At least 1 m (3.28 ft) below the highest point on the structure
 - For tower installations, at least 3 m (9.84 ft) below the top of the tower
- Ground wires min. 10 AWG (5 mm²) and max. length:
 1 m (3.28 ft). As a safety precaution, ground the airFiber radios to grounded masts, poles, towers, or grounding bars.



WARNING: Failure to properly ground your airFiber units will void your warranty.

• (Recommended) 2 Outdoor GigE PoE surge protectors



Note: For guidelines about grounding and lightning protection, follow your local electrical regulatory codes.

 Outdoor, shielded Category 6 (or above) cabling and shielded RJ-45 connectors are required for all wired Ethernet connections.

Installation Overview

We recommend that you configure your paired airFiber radios before mounting. Below is an overview of the installation with specific details in the following instructions:

- Connect Power over Ethernet to the Data port, and connect an Ethernet cable between your computer and the Management port.
- Configure the device settings in the airFiber Configuration Interface
- Once configuration is complete, disconnect the cables to move the airFiber radios.
- · Pre-assemble the mounting hardware.
- Install the airFiber radios at the site.
- · Establish and optimize the RF link.



Note: The AF5 and AF5U models share the same installation and configuration instructions.

Connecting Power over Ethernet

 Push the button and slide the port cover down to access cable ports. (The port cover cannot be completely removed.)



2. Connect an Ethernet cable to the Data port.



3. Connect the other end of the Ethernet cable from the *Data* port to the Ethernet port labeled **POE** on the *GigE POE Adapter*.

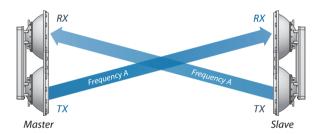


 Connect the Power Cord to the power port on the GigE PoE Adapter. Connect the other end of the Power Cord to a power source.

airFiber Configuration

The instructions in this section explain how to access the airFiber Configuration Interface and configure the following settings:

- Wireless Mode Configure one airFiber radio as the Master and the other as the Slave.
- Duplex The airFiber radio supports both half-duplex and full-duplex operation. Half-duplex operation provides more frequency planning options at the cost of higher latency and throughput. Full-duplex operation provides the highest throughput and lowest latency; however, you have fewer frequency management options.
 - Half Duplex (default) The TX and RX Frequencies can be the same or different to suit local interference.



Half-Duplex Diagram

- Full Duplex The TX and RX Frequencies should be different.



Full-Duplex Diagram

 TX and RX Frequencies The TX Frequency on the Master must match the RX Frequency on the Slave, and vice versa. Connect an Ethernet cable from your computer to the Management port on the airFiber radio.



- Configure the Ethernet adapter on your computer with a static IP address on the 192.168.1 x subnet.
- Launch your web browser. Type http://192.168.1.20 in the address field and press enter (PC) or return (Mac).



4. The login screen will appear. Enter **ubnt** in the *Username* and *Password* fields. Select your *Country* and *Language*. You must agree to the *Terms of Use* to use the product. Click **Login**.





Note: U.S. product versions are locked to the U.S. Country Code to ensure compliance with FCC regulations.

Click the Wireless tab.



6. Enter the Basic Wireless Settings:

- For one airFiber radio, select Master from the Wireless Mode drop-down. For the other airFiber radio, keep the default, Slave
- b. Enter a name in the *Link Name* field. This should be the same on both the Master and the Slave.
- c. For the Duplex drop-down:
- **Half Duplex** The default mode. The *TX* and *RX Frequencies* can be the same or different to suit local interference.
- Full Duplex The TX and RX Frequencies should be different.
- d. Select a *TX Frequency*. This must match the *RX Frequency* on your other airFiber radio.
- e. Select a RX Frequency. This must match the TX Frequency of your other airFiber radio.
- If needed, change the Output Power and/or Maximum Modulation Rate settings.

- 7. Configure the Wireless Security:
 - a. Select the AES Key Type, HEX or ASCII.
 - b. For the Key field:
 - HEX Enter 16 bytes (eight, 16-bit HEX values: 0-9, A-F, or a-f). You can omit zeroes and use colons, similar to the IPv6 format.

Note: The airFiber Configuration Interface supports IPv6 formats excluding dotted quad and "::" (double-colon) notation.

- ASCII Enter a combination of alphanumeric characters (0-9, A-Z, or a-z).
- 8. Click Change and then click Apply.
- In-Band Management is enabled by default, so each airFiber radio must have a unique IP Address. (If the airFiber radios use the same IP Address, then you may lose access to the airFiber radios via the Data ports.) Click the Network tab.



- a. For the Management IP Address option:
- DHCP Keep the default, DHCP, to use DHCP reservation on your router to assign a unique IP Address.
- **Static** Change the *IP Address, Netmask*, and other settings to make them compatible with your network.
- b. Click Change and then click Apply.

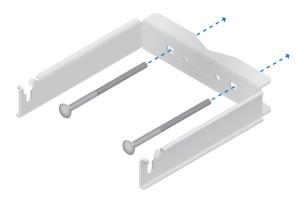
Repeat the instructions in the *airFiber Configuration* section on your other airFiber radio. After you have configured the airFiber radios, disconnect them and move them to your installation site.

Hardware Installation

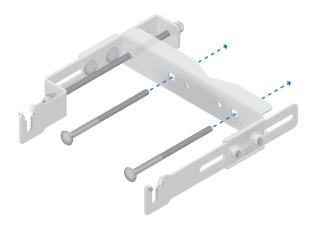
The mounting hardware of the airFiber radio can be pre-assembled before pole-mounting.

Mounting Hardware Pre-Assembly

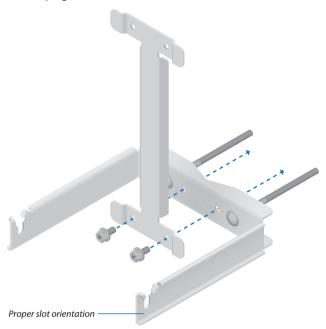
1. Insert two M10x150 Carriage Bolts into the Lower Mount Bracket.



2. Insert two M10x150 Carriage Bolts into the Upper Mount Bracket with Flevation Rod.



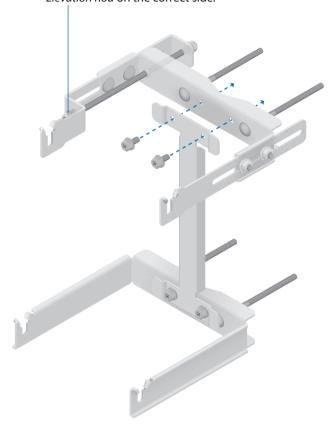
3. Attach the Lower Mount Bracket to the I-Bracket using two M8x14 Serrated Flange Bolts. Ensure that the slots face up and securely tighten the bolts.



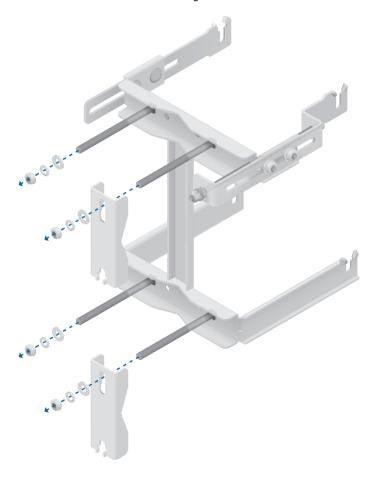
4. Attach the *Upper Mount Bracket with Elevation Rod* to the *I-Bracket* using two *M8x14 Serrated Flange Bolts*.



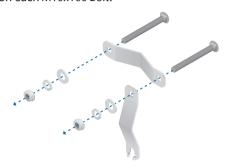
Note: Ensure that the orientation of the *Upper Mount Bracket* matches the illustration below, with the *Elevation Rod* on the correct side.



- 5. Attach the Pole Clamps to the Mount Brackets.
 - a. Slide the slotted hole of each *Pole Clamp* over one upper and one lower *M10x150 Carriage Bolt*.
 - b. Place one M10 Flat Washer, M10 Lock Washer, and M10 Hex Nut on each M10x150 Carriage Bolt.



- 6. Attach the Azimuth Support Brackets together.
 - a. Insert the two M10x100 Bolts into the Azimuth Support Bracket that has two slotted holes.
 - b. Slide the slotted hole of the other *Azimuth Support Bracket* over one *M10x100 Bolt*.
 - c. Place one M10 Flat Washer, M10 Lock Washer, and M10 Hex Nut on each M10x100 Bolt.



 Ensure that there is a 10 mm (0.39 in) gap between the head of each *Pre-Installed M10x25 Flanged Bolt* and the corresponding trunnion on the airFiber radio.



Pole-Mounting

1. Attach the Azimuth Support Brackets to the pole just beneath the area where the airFiber radio will be attached.

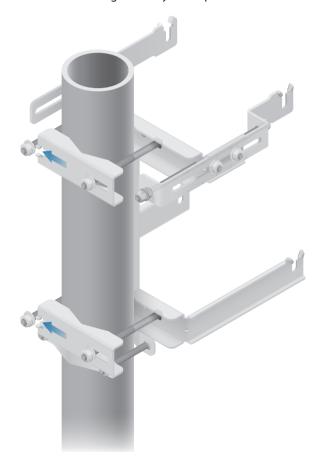


Note: The mounting assembly can accommodate a \emptyset 38.1 - 101.6 mm (1.5" - 4.0") pole.

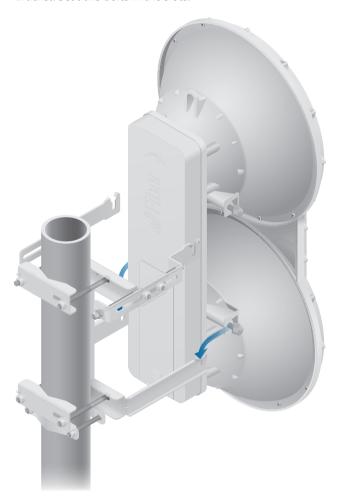
- a. Orient the *Azimuth Support Brackets* around the pole so it is aimed in the direction of the other airFiber radio.
- b. Slide the open slot of the *Azimuth Support Bracket* over the corresponding *M10x100 Bolt*.
- c. Tighten the nuts to approximately 50 N-m (37 lb-ft).



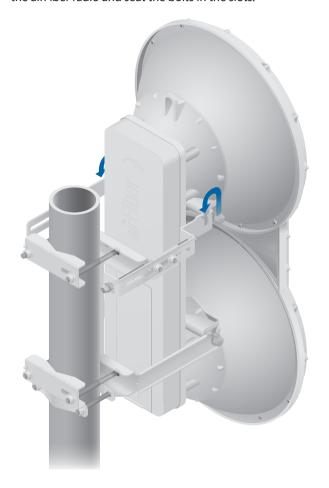
- 2. Attach the mounting assembly to a pole.
 - a. Orient the mounting assembly around the pole so it is aimed in the direction of the other airFiber radio.
 - b. Slide the open slot of each *Pole Clamp* over the corresponding *M10x150 Carriage Bolt*.
 - c. Tighten the M10 Hex Nuts of the M10x150 Carriage Bolts to secure the mounting assembly to the pole.



3. Lift the airFiber radio and align the two lower *Pre-Installed M10x25 Flanged Bolts* with the slots on the *Lower Mount Bracket*. Seat the bolts in the slots.



4. Align the two upper *Pre-Installed M10x25 Flanged Bolts* of the airFiber radio next to the slots on the *Upper Mount Bracket*. Lift the airFiber radio and seat the bolts in the slots.



- 5. Attach a ground wire:
 - a. Remove the nut from the Grounding Point.



b. Attach a ground wire (min. 8 AWG or 10 mm²) to the lug and replace the nut to secure the wire.



c. Secure the other end of the ground wire to a grounded mast, pole, tower, or grounding bar.



WARNING: Failure to properly ground your airFiber units will void your warranty.



Note: The ground wire should be as short as possible and no longer than one meter in length.

Connecting Ethernet

1. Push the button and slide the port cover down to access cable ports. (The port cover cannot be completely removed.)



- Connect the Data/PoF Ethernet cable:
 - a. Feed an outdoor, shielded CAT6 cable up through the rightmost cable feed slot on the bottom of the port cover.
 - b. Connect the cable to the Data port.
 - c. Create a strain relief for the Ethernet cable by feeding a *Cable Tie* through the tie slot to the side of the cable.
 - d. Wrap the Cable Tie around the cable and tighten.



3. Connect the other end of the Ethernet cable from the *Data* port to the Ethernet port labeled **POE** on the *GigE POE Adapter*.



4. Connect an Ethernet cable from your network to the Ethernet port labeled **LAN** on the *GigE PoE Adapter*.



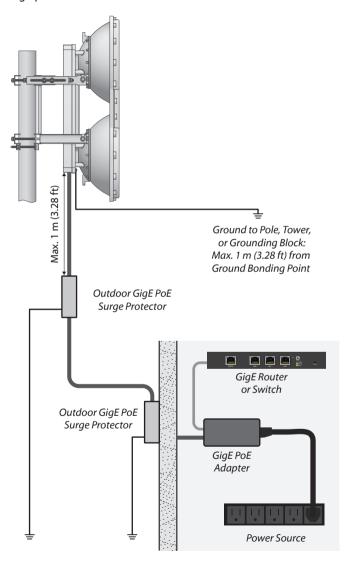
 Connect the Power Cord to the power port on the GigE PoE Adapter. Connect the other end of the Power Cord to a power source.





Note: For added protection, we recommend installing two GigE PoE surge protectors. Install the first surge protector within 1 m (3.28 ft) of the airFiber *Data* port, and install the second surge protector at the ingress point of the location housing the wired network equipment.

Below is a diagram of a finished installation with recommended surge protectors installed.



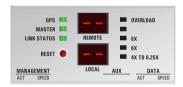
Alignment

Tips

- To accurately align the airFiber radios for best performance, you MUST align only one end of the link at a time.
- For more convenient alignment, you may consider using long-range scopes (not included) temporarily attached to your airFiber radios.
- You may need to use additional hardware to compensate for issues such as the improper orientation of a mounting pole or significant elevation differences between airFiber radios.

Before a link is established, the Master's LED Display looks like this:

- · GPS and Master LEDs are solidly lit
 - Note: The GPS LED may not be lit if there is a weak GPS signal. A GPS signal is not required for alignment.
- Link Status LED flashes (Normal Flash 1:1)
- · Remote and Local LED Displays show a double dash





Note: The *Local LED Display* may briefly flash a large number (such as 95) when there is no link.

Establishing a Link

Adjust the positions of the Master and the Slave to establish a link.



Note: The *Master* must be aimed first at the *Slave* because the *Slave* does not transmit any RF signal until it detects transmissions from the *Master*.

- 1. Ensure that the following bolts and nuts are loose:
 - Four Pre-Installed M10x25 Flanged Bolts on the airFiber radio (two on each side)
 - Four M10 Hex Nuts used to lock the elevation alignment on the Upper Mount Bracket (two on each side)



2. Ensure that the pole mount is snug yet the four M10 Hex Nuts attaching the Pole Clamps are loose enough to allow rotation around the pole for azimuth alignment.



- Master Visually aim the Master at the Slave. To adjust the Master's position:
 - a. Rotate the airFiber radio on the pole to align the azimuth.
 - b. Use the hex nut on the *Elevation Rod* to adjust the elevation.





Note: Do NOT make simultaneous adjustments on the *Master* and *Slave*.

- 4. Slave Visually aim the *Slave* at the *Master*. To adjust the *Slave*'s position:
 - a. Rotate the airFiber radio on the pole to align the azimuth.
 - b. Use the hex nut on the *Elevation Rod* to adjust the elevation.
- Check to see if a link is established. Ensure that the Link Status LED is solidly lit green and the Remote and Local LED Displays of the Slave are displaying signal levels.



6. Slave Aim the *Slave* at the *Master* to achieve the strongest signal level on the *Remote LED Display* of the *Slave*.



Note: Values on the *LED Displays* are displayed in negative (-) dBm. For example, 67 represents a received signal level of -67 dBm. Smaller numerical values indicate stronger received signal levels. For example, a reading of 49 is stronger than a reading of 55.



Note: Maximum signal strength can best be achieved by iteratively sweeping through both azimuth and elevation

7. Master Aim the *Master* at the Slave to achieve the strongest signal level on the *Remote LED Display* of the *Master*.



Note: If the Overload LED lights up, refer to the airFiber AF5/AF5U User Guide at:

documentation.ubnt.com/airfiber

8. Repeat steps 6 and 7 until you achieve a symmetric link, with the signal levels within 1 dB of each other. This ensures the best possible data rate between the airFiber radios.



- Lock the alignment on both airFiber radios by tightening the nuts and bolts.
- 10. Observe the Local and Remote LED Displays of each airFiber radio to ensure that the values remains constant while tightening the nuts and bolts. If any LED value changes during the locking process, loosen the nuts and bolts, finalize the alignment of each airFiber radio again, and retighten the nuts and bolts.
- 11. For each airFiber radio, close the port cover and ensure that the Ethernet cable stays in the cable feed slot.

There are three methods for determining the received signal level:

- · LED Displays (described above)
- airFiber Configuration Interface (webpage)
- · Audio tone (optional equipment required)

Refer to the airFiber AF5/AF5U User Guide for instructions on the airFiber Configuration Interface and audio tone methods.

Installer Compliance Responsibility

Devices must be professionally installed and it is the professional installer's responsibility to make sure the device is operated within local country regulatory requirements.



The Frequency and Output Power fields are provided to the professional installer to assist in meeting regulatory requirements.

Specifications

airFiber AF5/AF5U				
Dimensions	938.4 x 468.4 x 281.4 mm (36.94 x 18.44 x 11.08 in)			
Weight Mount Not Included Mount Included	11.5 kg (25.35 lb) 16 kg (35.27 lb)			
Operating Frequency AF5 FCC 15.247, 15.407, IC RSS 210 ETSI EN 301 893, EN 302 502 Other Regions	5470 - 5600 MHz, 5650 - 5850 MHz 5470 - 5875 MHz 5470 - 5950 MHz			
AF5U FCC 15.247, IC RSS 21 ETSI EN 302 502 Other Regions	5725 - 5850 MHz 5725 - 5875 MHz 5725 - 6200 MHz			
Max Power Consumption	40 W			
Power Supply	50V, 1.2A PoE GigE Adapter (Included)			
Power Method	Passive Power over Ethernet (42-58VDC)			
Certifications	CE, FCC, IC			
Mounting	Pole Mount Kit (Included)			
Wind Loading	863 N @ 200 km/hr (194 lbf @ 125 mph)			
Wind Survivability	200 km/hr (125 mph)			
Operating Temperature	-40 to 55° C (-40 to 131°F)			
Networking Interface				
Data Port	(1) 10/100/1000 Ethernet Port			
Management Port	(1) 10/100 Ethernet Port			

Receive Sensitivity				
Spatial Streams	Modulation	Sensitivity	FDD Capacity*	TDD Capacity*
8x	256QAM MIMO	-65 dBm	1024 Mbps	512 Mbps
бх	64QAM MIMO	-72 dBm	768 Mbps	384 Mbps
4x	16QAM MIMO	-77 dBm	512 Mbps	256 Mbps
2x	QPSK MIMO	-83 dBm	256 Mbps	128 Mbps
1x	½ Rate QPSK xRT**	-87 dBm	128 Mbps	64 Mbps
1/4X	½ Rate QPSK xRT**	-90 dBm	32 Mbps	16 Mbps

^{*} FDD = (2) 50 MHz channels and TDD = (1) 50 MHz channel ** xtreme Range Technology

Safety Notices

- Read, follow, and keep these instructions.
- 2. Heed all warnings.
- 3. Only use attachments/accessories specified by the manufacturer.



WARNING: Do not use this product in location that can be submerged by water.



WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Electrical Safety Information

- Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified may result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.
- There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.
- This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.
 - a. Do not substitute the power cord with one that is not the provided approved type. Never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.
 - The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.
 - Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
 - d. Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.
 - e. Protective bonding must be installed in accordance with local national wiring rules and regulations.

Limited Warranty

UBIQUITI NETWORKS, Inc ("UBIQUITI NETWORKS") warrants that the product(s) furnished hereunder (the "Product(s)") shall be free from defects in material and workmanship for a period of one (1) year from the date of shipment by UBIQUITI NETWORKS under normal use and operation. UBIQUITI NETWORKS' sole and exclusive obligation and liability under the foregoing warranty shall be for UBIQUITI NETWORKS, at its discretion, to repair or replace any Product that fails to conform to the above warranty during the above warranty period. The expense of removal and reinstallation of any Product is not included in this warranty. The warranty period of any replaced Product shall not extend beyond its original term.

Warranty Conditions

The above warranty does not apply if the Product:

- has been modified and/or altered, or an addition made thereto, except by Ubiquiti Networks, or Ubiquiti Networks' authorized representatives, or as approved by Ubiquiti Networks in writing;
- (II) has been painted, rebranded or physically modified in any way;
- (III) has been damaged due to errors or defects in cabling;
- (IV) has been subjected to misuse, abuse, negligence, abnormal physical, electromagnetic or electrical stress, including lightning strikes, or accident;
- (V) has been damaged or impaired as a result of using third party firmware;
- (VI) has no original Ubiquiti MAC label, or is missing any other original Ubiquiti label(s); or
- (VII) has not been received by Ubiquiti within 30 days of issuance of the RMA.

In addition, the above warranty shall apply only if: the product has been properly installed and used at all times in accordance, and in all material respects, with the applicable Product documentation; all Ethernet cabling runs use CAT5 (or above), and for outdoor installations, shielded Ethernet cabling is used, and for indoor installations, indoor cabling requirements are followed.



WARNING: Failure to properly ground your airFiber units will void your warranty. (Please follow the instructions on page 22 for installation of the ground wires.)

Returns

No Products will be accepted for replacement or repair without obtaining a Return Materials Authorization (RMA) number from UBIQUITI NETWORKS during the warranty period, and the Products being received at UBIQUITI NETWORKS' facility freight prepaid in accordance with the RMA process of UBIQUITI NETWORKS. Products returned without an RMA number will not be processed and will be returned freight collect or subject to disposal. Information on the RMA process and obtaining an RMA number can be found at: www.ubnt.com/support/warranty.

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Limitation of Liability

EXCEPT TO THE EXTENT PROHIBITED BY LOCAL LAW, IN NO EVENT WILL UBIQUITI OR ITS SUBSIDIARIES, AFFILIATES OR SUPPLIERS BE LIABLE FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES (INCLUDING LOST PROFIT, LOST Data, OR DOWNTIME COSTS), ARISING OUT OTHE USE, INABILITY TO USE, OR THE RESULTS OF USE OF THE PRODUCT, WHETHER BASED IN WARRANTY, CONTRACT, TORT OR OTHER LEGAL THEORY, AND WHETHER OR NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Note

Some countries, states and provinces do not allow exclusions of implied warranties or conditions, so the above exclusion may not apply to you. You may have other rights that vary from country to country, state to state, or province to province. Some countries, states and provinces do not allow the exclusion or limitation of liability for incidental or consequential damages, so the above limitation may not apply to you. EXCEPT TO THE EXTENT ALLOWED BY LOCAL LAW, THESE WARRANTY TERMS DO NOT EXCLUDE, RESTRICT OR MODIFY, AND ARE IN ADDITION TO, THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE LICENSE OF ANY SOFTWARE (EMBEDDED IN THE PRODUCT) TO YOU. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to any transactions regarding the sale of the Products.

Compliance

FCC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device 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.

NOTE: 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 not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations 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.

Industry Canada

This Class A digital apparatus complies with Canadian ICES-003.

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 permitted for successful communication.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 Canada.

Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisies de façon que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

Cet appareil est conforme à la norme RSS Industrie Canada exempts de licence norme(s). Son fonctionnement est soumis aux deux conditions suivantes:

- 1. Cet appareil ne peut pas provoquer d'interférences et
- 2. Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

RF Exposure Warning

The antennas used for this transmitter must be installed to provide a separation distance of at least 126 cm (AF5) or 123 cm (AF5U) from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

Les antennes utilisées pour ce transmetteur doivent être installé en considérant une distance de séparation de toute personnes d'au moins 126 cm (AF5) ou 123 cm (AF5U) et ne doivent pas être localisé ou utilisé en conflit avec tout autre antenne ou transmetteur.

CE Marking

CE marking on this product represents the product is in compliance with all directives that are applicable to it.

Alert Sign (!) Follows CE Marking

Alert sign must be indicated if a restriction on use applied to the product and it must follow the CE marking.



RoHS/WEEE Compliance Statement



English

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Deutsch

Die Europäische Richtlinie 2002/96/EC verlangt, dass technische Ausrüstung, die direkt am Gerät und/oder an der Verpackung mit diesem Symbol versehen ist, nicht zusammen mit unsortiertem Gemeindeabfall entsorgt werden darf. Das Symbol weist darauf hin, dass das Produkt von regulärem Haushaltmüll getrennt entsorgt werden sollte. Es liegt in Ihrer Verantwortung, dieses Gerät und andere elektrische und elektronische Geräte über die dafür zuständigen und von der Regierung oder örtlichen Behörden dazu bestimmten Sammelstellen zu entsorgen. Ordnungsgemäßes Entsorgen und Recyceln trägt dazu bei, potentielle negative Folgen für Umwelt und die menschliche Gesundheit zu vermeiden. Wenn Sie weitere Informationen zur Entsorgung Ihrer Altgeräte benötigen, wenden Sie sich bitte an die örtlichen Behörden oder städtischen Entsorgungsdienste oder an den Händler. bei dem Sie das Produkt erworben haben.

Español

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

Français

La directive européenne 2002/96/CE exige que l'équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact néfaste potentiel de ce type de produits sur l'environnement et la santé publique. Pour plus d'informations sur le mode d'élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l'endroit où vous avez acheté le produit.

Italiano

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull'imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio ajuteranno a prevenire conseguenze potenzialmente negative per l'ambiente e per la salute dell'essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso. Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

Declaration of Conformity

Českv UBIOUITI NETWORKS tímto prohla uie, e tento UBIOUITI [Czech]

NETWORKS device, je ve shod se základními po adavky a dal ími p

íslu n mi ustanoveními sm rnice 1999/5/ES.

Dansk Undertegnede UBIOUITI NETWORKS erklærer herved, at følgende udstyr UBIQUITI NETWORKS device, overholder de væsentlige krav [Danish]

og øvrige relevante krav i direktiv 1999/5/EF.

Nederlands Hierbii verklaart UBIOUITI NETWORKS dat het toestel UBIOUITI NETWORKS device, in overeenstemming is met de essentiële eisen. [Dutch]

en de andere relevante bepalingen van richtlijn 1999/5/EG. Bii deze verklaart UBIOUITI NETWORKS dat deze UBIOUITI NETWORKS device, voldoet aan de essentiële eisen en aan de

overige relevante bepalingen van Richtliin 1999/5/EC.

Hereby, UBIOUITI NETWORKS, declares that this UBIOUITI English NETWORKS device, is in compliance with the essential requirements

and other relevant provisions of Directive 1999/5/EC.

Festi Käesolevaga kinnitab UBIOUITI NETWORKS seadme UBIOUITI NETWORKS device, vastavust direktiivi 1999/5/EÜ põhinõuetele ja [Estonian]

nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

Suomi UBIOUITI NETWORKS vakuuttaa täten että UBIOUITI NETWORKS

device, typpinen laite on direktiivin 1999/5/EY oleellisten

vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

[Finnish]

Francais Par la présente UBIQUITI NETWORKS déclare que l'appareil UBIQUITI NETWORKS, device est conforme aux exigences [French]

essentielles et aux autres dispositions pertinentes de la directive

1999/5/CF

Hiermit erklärt UBIQUITI NETWORKS, dass sich diese UBIQUITI Deutsch NETWORKS device, in Übereinstimmung mit den grundlegenden [German]

Anforderungen und den anderen relevanten Vorschriften der

Richtlinie 1999/5/EG befindet". (BMWi)

[Greek]

[Italian]

[Lithuanian]

[Maltese]

Ελληνική ΜΕΤΗΝ ΠΑΡΟΥΣΑ UBIOUITI NETWORKS ΛΗΛΟΝΕΙ ΟΤΙ UBIOUITI

NETWORKS device ΣΥΜΜΟΡΦΟΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΟΛΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΛΙΑΤΑΞΕΙΣ ΤΗΣ ΟΛΗΓΙΑΣ

1995/5/EK.

Alulírott, UBIQUITI NETWORKS nyilatkozom, hogy a Magyar

UBIQUITI NETWORKS device, megfelel a vonatkozó alapvető [Hungarian]

követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

Íslenska Hér me I sir UBIQUITI NETWORKS vfir ví a UBIQUITI NETWORKS device, er í samræmi vi grunnkröfur og a rar kröfur, sem ger ar eru í [Icelandic]

tilskipun 1999/5/EC.

Italiano Con la presente UBIQUITI NETWORKS dichiara che questo UBIQUITI

NETWORKS device, è conforme ai requisiti essenziali ed alle altre

disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski Ar o UBIQUITI NETWORKS deklar, ka UBIQUITI NETWORKS device. atbilst Direkt vas 1999/5/EK b tiskai m pras b m un citiem ar to saist

[Latvian] taiiem noteikumiem.

Lietuviškai UBIOUITI NETWORKS deklaruoja, kad šis UBIOUITI NETWORKS įrenginys atitinka esminius reikalavimus ir kitas 1999/5/EB

Direktyvos nuostatas.

Malti Hawnhekk, UBIQUITI NETWORKS, jiddikjara li dan UBIQUITI

> NETWORKS device, jikkonforma mal- ti ijiet essenzjali u ma provvedimenti o rain relevanti li hemm fid-Dirrettiva 1999/5/EC.

Norsk UBIOUITI NETWORKS erklærer herved at utstyret UBIOUITI NETWORKS device, er i samsvar med de grunnleggende krav og [Norwegian]

øvrige relevante krav i direktiv 1999/5/EF.

Slovensky UBIQUITI NETWORKS t mto vyhlasuje, e UBIQUITI NETWORKS device, sp a základné po jadavky a v etky príslu né ustanovenia [Slovak]

Smernice 1999/5/FS

Härmed intygar UBIQUITI NETWORKS att denna UBIQUITI Svenska NETWORKS device, står I överensstämmelse med de väsentliga [Swedish]

egenskapskrav och övriga relevanta bestämmelser som framgår av

direktiv 1999/5/EG.

Español Por medio de la presente UBIOUITI NETWORKS declara que el UBIOUITI NETWORKS device, cumple con los requisitos esenciales [Spanish]

y cualesquiera otras disposiciones aplicables o exigibles de la

Directiva 1999/5/CE.

Polski Niniejszym, firma UBIQUITI NETWORKS o wiadcza, e produkt serii UBIOUITI NETWORKS device, spełnia zasadnicze wymagania i inne [Polish]

istotne postanowienia Dyrektywy 1999/5/EC.

UBIOUITI NETWORKS declara que este UBIOUITI NETWORKS device. **Português** está conforme com os requisitos essenciais e outras disposições da [Portuguese]

Directiva 1999/5/CE.

Română Prin prezenta, UBIQUITI NETWORKS declară că acest dispozitiv UBIQUITI NETWORKS este în conformitate cu cerintele esentiale si [Romanian]

alte prevederi relevante ale Directivei 1999/5/CE.

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