UBIQUITI NETWORKS

Dual-Band airMAX® ac Radio with Dedicated Wi-Fi Management
Model: B-DB-AC

Quick Start Guide
Introduction

Thank you for purchasing the Ubiquiti Networks® Bullet™ AC. This Quick Start Guide is designed to guide you through installation and also includes warranty terms.

Package Contents

- Bullet AC
- Compression Seal
- Quick Start Guide

Installation Requirements

- Shielded Category 5 (or above) cabling with drain wire should be used for all outdoor wired Ethernet connections and should be grounded through the AC ground of the PoE.

We recommend that you protect your networks from harmful outdoor environments and destructive ESD events with industrial-grade, shielded Ethernet cable from Ubiquiti Networks. For more details, visit www.ubnt.com/toughcable

- Surge protection should be used for all outdoor installations. We recommend that you use two Ethernet Surge Protectors, model ETH-SP, one near the B-DB-AC and the other at the entry point to the building. The ETH-SP will absorb power surges and safely discharge them into the ground.

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 professional installer’s responsibility to follow local country regulations, including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements.
Hardware Overview

- N-Type Connector
- LEDs
- Ethernet Port
- Cable Gland Body
- Compression Seal
Hardware Installation

1. Unscrew the *Cable Gland Body* and detach it from the Bullet.

2. Feed the Ethernet cable through the *Cable Gland Body*.

3. Slip the *Compression Seal* around the cable.

4. Seat the *Compression Seal* into the *Cable Gland Body*. 
5. Connect the Ethernet cable to the port located on the bottom of the Bullet.

6. Securely attach the Cable Gland Body onto the Bullet. Ensure the Compression Seal is securely compressed and tightly sealed around the cable.
7. Connect the Bullet to the N-Type connector of the antenna.
Accessing airOS via Wi-Fi

Verify connectivity in the airOS Configuration Interface. There are two methods, the UNMS™ App and Web Portal. Both are available for 15 minutes immediately after you power on the device. If necessary, you can power cycle the Bullet AC to re-enable its Wi-Fi.

Proceed to the appropriate instructions:

**UNMS App**

1. Download the UNMS app from the App Store (iOS) or Google Play™ (Android).

   ![UNMS App Icon]

2. Connect your device’s Wi-Fi to the Bullet AC SSID named: **B-DB-AC:<MAC Address>**
   
   **Note:** Ensure that DHCP is enabled on your Wi-Fi adapter.

3. Launch the app.
4. Tap the Bullet AC on the **Connections** screen.

![Connection Screen]
5. Tap **Connect** on the *Login* screen.

6. Select your *Country* and tap **Done**.

**Note:** For the *Country* setting, U.S. product versions are restricted to a choice of Canada, Puerto Rico, or the U.S. to ensure compliance with FCC/IC regulations.
7. Under *Configuration*, customize your settings as needed.
1. Connect your device’s Wi-Fi connection to the Bullet AC SSID named: **B-DB-AC:<MAC Address>**
   
   **Note:** Ensure that your Wi-Fi connection has DHCP enabled.

2. Launch a web browser and go to: [http://setup.ubnt.com](http://setup.ubnt.com)

3. 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**.

   ![Login screenshot]

   **Note:** For the **Country** setting, U.S. product versions are restricted to a choice of Canada, Puerto Rico, or the U.S. to ensure compliance with FCC/IC regulations.

The airOS Configuration Interface will appear, allowing you to customize your settings as needed. For additional details on the airOS Configuration Interface, refer to the User Guide available at: [www.ubnt.com/download/airmax](http://www.ubnt.com/download/airmax)
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 *Output Power* field is provided to the professional installer to assist in meeting regulatory requirements.
## Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Bullet AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>190 x 46 mm (7.48 x 1.81&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>196 g (6.91 oz)</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Powder-Coated Aluminum</td>
</tr>
<tr>
<td>Networking Interface</td>
<td>Gigabit Ethernet Port</td>
</tr>
<tr>
<td>Antenna Connector</td>
<td>N-Type Connector</td>
</tr>
<tr>
<td>LEDs</td>
<td>Power, Ethernet, (4) Signal Strength</td>
</tr>
<tr>
<td>Max. Power Consumption</td>
<td>8W</td>
</tr>
<tr>
<td>Output Power</td>
<td>22 dBm</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC to 24VDC, 0.5 A Gigabit PoE Adapter</td>
</tr>
<tr>
<td>Power Method</td>
<td>24V Passive PoE (Pairs 4, 5+; 7, 8 Return)</td>
</tr>
<tr>
<td>ESD/EMP Protection</td>
<td>± 24 kV Contact / Air</td>
</tr>
<tr>
<td>Operating Temp</td>
<td>-40 to 70° C (-40 to 158° F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>5 to 95% Condensing</td>
</tr>
<tr>
<td>Shock and Vibration</td>
<td>ETSI300-019-1.4</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE, FCC, IC</td>
</tr>
</tbody>
</table>

### Operating Frequency (MHz)

<table>
<thead>
<tr>
<th>Region</th>
<th>Frequency Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worldwide</td>
<td>2412 - 2472</td>
</tr>
<tr>
<td></td>
<td>5150 - 5875</td>
</tr>
<tr>
<td>USA</td>
<td>2412 - 2462</td>
</tr>
<tr>
<td></td>
<td>U-NII-1: 5150 - 5250</td>
</tr>
<tr>
<td></td>
<td>U-NII-3: 5725 - 5850</td>
</tr>
</tbody>
</table>
Safety Notices

1. 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

1. 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.
2. There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.

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 repaired or replaced Product shall not extend beyond its original term.
Warranty Conditions

The above warranty does not apply if the Product:

(I) 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 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.

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
Disclaimer

EXCEPT FOR ANY EXPRESS WARRANTIES PROVIDED HEREIN, UBIQUITI NETWORKS, ITS AFFILIATES, AND ITS AND THEIR THIRD PARTY DATA, SERVICE, SOFTWARE AND HARDWARE PROVIDERS HEREBY DISCLAIM AND MAKE NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, REPRESENTATIONS, GUARANTEES, OR WARRANTIES OF MERCHANTABILITY, ACCURACY, QUALITY OF SERVICE OR RESULTS, AVAILABILITY, SATISFACTORY QUALITY, LACK OF VIRUSES, QUIET ENJOYMENT, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT AND ANY WARRANTIES ARISING FROM ANY COURSE OF DEALING, USAGE OR TRADE PRACTICE IN CONNECTION WITH SUCH PRODUCTS AND SERVICES. BUYER ACKNOWLEDGES THAT NEITHER UBIQUITI NETWORKS NOR ITS THIRD PARTY PROVIDERS CONTROL BUYER'S EQUIPMENT OR THE TRANSFER OF DATA OVER COMMUNICATIONS FACILITIES, INCLUDING THE INTERNET, AND THAT THE PRODUCTS AND SERVICES MAY BE SUBJECT TO LIMITATIONS, INTERRUPTIONS, DELAYS, CANCELLATIONS AND OTHER PROBLEMS INHERENT IN THE USE OF COMMUNICATIONS FACILITIES. UBIQUITI NETWORKS, ITS AFFILIATES AND ITS AND THEIR THIRD PARTY PROVIDERS ARE NOT RESPONSIBLE FOR ANY INTERRUPTIONS, DELAYS, CANCELLATIONS, DELIVERY FAILURES, DATA LOSS, CONTENT CORRUPTION, PACKET LOSS, OR OTHER DAMAGE RESULTING FROM ANY OF THE FOREGOING. In addition, UBIQUITI NETWORKS does not warrant that the operation of the Products will be error-free or that operation will be uninterrupted. In no event shall UBIQUITI NETWORKS be responsible for damages or claims of any nature or description relating to system performance, including coverage, buyer’s selection of products (including the Products) for buyer’s application and/or failure of products (including the Products) to meet government or regulatory requirements.

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 OF THE 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.

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.
This radio transmitter (FCC: SWX-BDBAC) has been approved by FCC 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 on page 18, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

ISED Canada

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

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

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

This radio transmitter (IC: 6545A-BDBAC) has been approved by ISED Canada 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 on page 18, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
Le présent appareil est conforme aux CNR d’ISDE 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;
2. l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

Le présent émetteur radio (IC: 6545A-BDBAC) a été approuvé par ISDE Canada pour l’exploitation avec l’antenne types énumérés ci-dessous avec le gain maximal admissible et requis l’impédance de l’antenne pour chaque type d’antenne indiqué. Types d’antenne non inclus dans cette liste, ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

Certifed Antenna Types (Types d’antennes certifiées)

<table>
<thead>
<tr>
<th>Antenna</th>
<th>Frequency</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni</td>
<td>2.4 GHz</td>
<td>13 dBi</td>
</tr>
<tr>
<td></td>
<td>5 GHz</td>
<td>13 dBi</td>
</tr>
<tr>
<td>Sector</td>
<td>2.4 GHz</td>
<td>17 dBi</td>
</tr>
<tr>
<td></td>
<td>5 GHz</td>
<td>22 dBi</td>
</tr>
<tr>
<td>Dish</td>
<td>2.4 GHz</td>
<td>24 dBi</td>
</tr>
<tr>
<td></td>
<td>5 GHz</td>
<td>34 dBi</td>
</tr>
</tbody>
</table>
RF Exposure Warning

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm 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 20 cm et ne doivent pas être localisé ou utilisé en conflit avec tout autre antenne ou transmetteur.

Australia and New Zealand

⚠️ Warning: 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.

CE Marking

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

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. The device complies with RF specifications when the device is used at 29 cm from your body.

Country List

<table>
<thead>
<tr>
<th>AT</th>
<th>BE</th>
<th>BG</th>
<th>CY</th>
<th>CZ</th>
<th>DE</th>
<th>DK</th>
<th>EE</th>
<th>EL</th>
<th>ES</th>
<th>FI</th>
<th>FR</th>
<th>HR</th>
<th>HU</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE</td>
<td>IT</td>
<td>LV</td>
<td>LT</td>
<td>LU</td>
<td>MT</td>
<td>NL</td>
<td>PL</td>
<td>PT</td>
<td>RO</td>
<td>SE</td>
<td>SI</td>
<td>SK</td>
<td>UK</td>
</tr>
</tbody>
</table>

BFWA (Broadband Fixed Wireless Access) members noted in blue

Note: This device meets Max. TX power limit per ETSI regulations.

The following apply to products that operate in the 5 GHz frequency range:

Note: This device is restricted to indoor use only when operating in the 5150 - 5350 MHz frequency range within all member states.

Note: All countries listed may operate at 30 dBm. BFWA member states may operate at 36 dBm.

Note: Operation in the 5.8 GHz frequency band is prohibited in BFWA member states. Other countries listed may use the 5.8 GHz frequency band.
RoHS/WEEE Compliance Statement

English

European Directive 2012/19/EU 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

Español
La Directiva 2012/19/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 2012/19/UE 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.
La direttiva europea 2012/19/UE 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 aiuteranno 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

Hereby, UBIQUITI NETWORKS declares that the radio equipment type NBE‑5AC‑Gen2 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.ubnt.com/compliance


Íslenska [Icelandic] Hér með lýsir UBIQUITI NETWORKS yfir því að NBE-5AC-Gen2 er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/53/EU. Fullur texti ESB samræmisfyrílsing er að finna á eftirfarandi netfangi: www.ubnt.com/compliance

Italiano [Italian] Il fabbricante, UBIQUITI NETWORKS, dichiara che il tipo di apparecchiatura radio NBE-5AC-Gen2 è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: www.ubnt.com/compliance


Português [Portuguese] O(a) abaixo assinado(a) UBIQUITI NETWORKS declara que o presente tipo de equipamento de rádio NBE-5AC-Gen2 está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: www.ubnt.com/compliance

Slovenčina [Slovak]  UBIQUITI NETWORKS týmto vyhlasuje, že rádiiové zariadenie typu NBE-5AC-Gen2 je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: www.ubnt.com/compliance


Español [Spanish]  Por la presente, UBIQUITI NETWORKS declara que el tipo de equipo radioeléctrico NBE-5AC-Gen2 es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: www.ubnt.com/compliance

Online Resources

Support help.ubnt.com
Community community.ubnt.com
Downloads downloads.ubnt.com