



GigaBeam™

60 GHz/5 GHz Radio System
with 1 Gbps+ Throughput

Model: GBE

QUICK START GUIDE

Package Contents



GBE



**Ball Joint
Mount**



Lock Ring



Metal Strap



**Gigabit PoE (24V, 0.5A)
with Mounting Bracket**



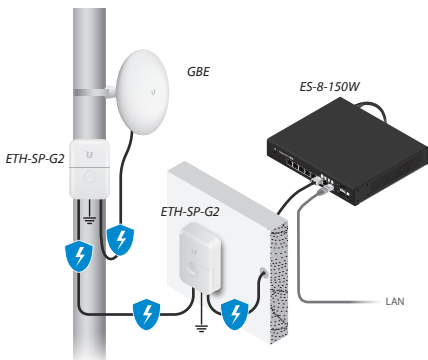
Power Cord

Installation Requirements

- Pole-mounting: 7 mm socket wrench or screwdriver
- Wall-mounting: wall fastener (not included)
- Shielded Category 5 (or above) cabling with drain wire should be used for all 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. For more details, visit ui.com/toughcable

- Surge protection should be used for all outdoor installations. We recommend that you use two Ethernet Surge Protectors, model ETH-SP-G2, one near the device and the other at the entry point to the building. The ETH-SP-G2 will absorb power surges and safely discharge them into the ground.



Hardware Overview



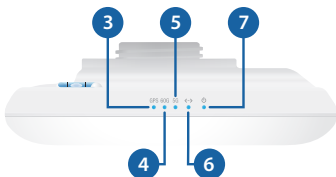
1 Reset Button

To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the device is powered on. Alternatively, the device may be reset remotely via a Reset button located on the bottom of the Gigabit PoE Adapter.

2 Ethernet Port

This Gigabit Ethernet port is used to connect the power and should be connected to the LAN and DHCP server.

LEDs



3 GPS

Lights steady blue when there is a strong GPS signal. .

4 60 GHz

Lights steady blue when 60 GHz link is ready.

5 5 GHz

Lights steady blue when the 5 GHz link is ready.

6 LAN

The LED will light steady blue when an active Ethernet connection is made to the Ethernet port and flash when there is activity.

7 Power/Status

Color	Status
Flashing White	Bootup is in progress.
White	Ready for use; UNMS is disabled.
Blue	Ready for use; UNMS is enabled and connected.
Steady Blue with Occasional Flashing	Ready for use; UNMS is enabled but not connected.
Quickly Flashing Blue	Used to locate device from UNMS or web.
Alternating Blue/White	Firmware upgrade is in progress.

Hardware Installation

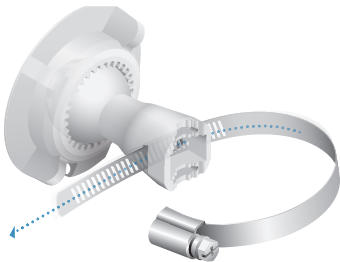
Go to the appropriate mounting instructions: Pole Mounting or **“Wall Mounting”**.

Pole-Mounting

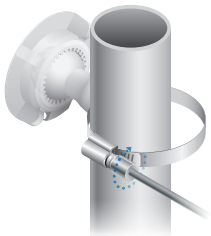
1.



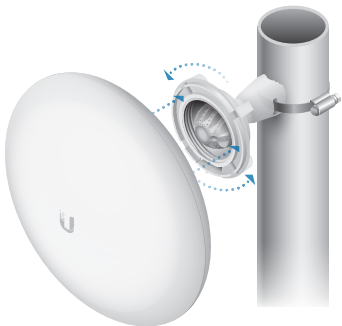
2.



3.



4.




Wall Mounting

The device must be mounted directly to a wood stud or other structurally stable surface to avoid damage to the mounting hole when you adjust the aim.

Optional Accessory

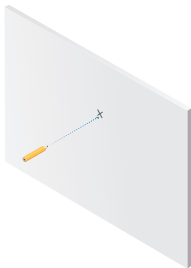
To enhance stability, you can use the NanoBeam® Wall Mount Kit, model NBE-WMK (sold separately).



 **Note:** Center screw included. Two optional screws (not included) provide additional stability.

Installation Instructions

1.



2.



3.



OR



Fastener (not included)

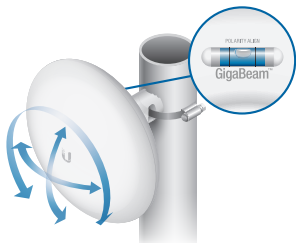
NanoBeam Wall Mount Kit

4.

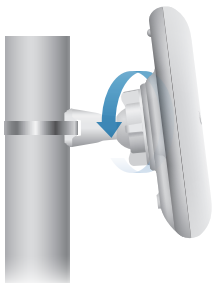


Aiming

1.



2.



Connecting Power

1.



2.



3.



4.

! **WARNING:** The switch port must comply with the power specifications listed in "Specifications".



OR



Mounting the PoE Adapter (Optional)



Accessing airOS via Wi-Fi

Verify connectivity in the airOS Configuration Interface using the UNMS™ app or Web Portal. Both are available for 15 minutes immediately after you power on the device. If necessary, you can power cycle the device to re-enable its Wi-Fi.

UNMS App

1. Download the UNMS app.



2. Connect your device's Wi-Fi to the SSID named:
GBE:<MAC Address>



Note: Ensure that DHCP is enabled on your Wi-Fi adapter.

3. Launch the app and follow the on-screen instructions.

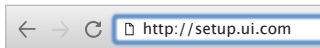
Web Portal

1. Connect your device's Wi-Fi to the SSID named:
GBE:<MAC Address>



Note: Ensure that your Wi-Fi connection has DHCP enabled.

2. Launch a web browser and go to: **http://setup.ui.com**



3. Select your *Country* and *Language*. You must agree to the *Terms of Use* to use the product. Click **Continue**.

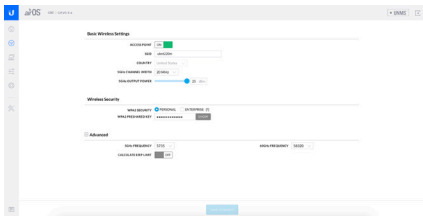


4. Create a username and password. Confirm your new password and then click **Save**.

The airOS Configuration Interface will appear, allowing you to customize your settings as needed. For additional details, refer to the User Guide available at ui.com/download/airmax-ac

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

GBE	
Dimensions	140 x 140 x 90 mm (5.51 x 5.51 x 3.54")
Weight	376 g (13.3 oz)
Gain	
5 GHz	10 dBi
60 GHz	17.2 dBi
Networking Interface	10/100/1000 Ethernet Port Wi-Fi for Management
Enclosure	UV-Resistant Polycarbonate
Max. Power Consumption	11W
Power Supply	24V, 0.5A Gigabit PoE Adapter (Included) 24V, 1A if Using Motor Accessory
Power Method	Passive PoE (Pairs 4, 5+; 7, 8-)
Wind Loading	56 N @ 200 km/h (12.6 lbf @ 125 mph)
Wind Survivability	200 km/h (125 mph)
Mounting	Pole-Mount (Kit Included) Wall-Mount (Not Included)
ESD/EMP Protection	± 24kV Contact/Air
Operating Temperature	-40 to 70° C (-40 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

Operating Frequency (MHz)		
Worldwide	5180 - 5875 57,000 - 66,000	
US/CA	U-NII-1: 5180 - 5250	U-NII-3: 5725 - 5850
	57,000 - 66,000	

Management Radio (MHz)	
Worldwide	2412 - 2472
US/CA	2412 - 2462

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 a 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.
3. 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.
 - b. 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.
 - c. 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

ui.com/support/warranty

The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.

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 has been approved by FCC.

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 has been approved by ISED Canada.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

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

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 a été approuvé par ISDE Canada.

Les dispositifs fonctionnant dans la bande 5150-5250 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.

IMPORTANT NOTE:

Radiation Exposure Statement:

- This equipment complies with radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with minimum distance 33 cm between the radiator and your body.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

AVIS IMPORTANT :

Déclaration sur l'exposition aux rayonnements :

- Cet équipement est conforme aux limites prévues pour l'exposition aux rayonnements dans un environnement non contrôlé.
- Lors de l'installation et de la mise en fonctionnement de l'équipement, assurez-vous qu'il y ait une distance minimale de 33 cm entre l'élément rayonnant et vous.
- Cet émetteur ne doit être installé à proximité d'aucune autre antenne ni d'aucun autre émetteur, et ne doit être utilisé conjointement à aucun autre de ces appareils.

Australia and New Zealand



Warning: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

Brazil



Nota: Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

CE Marking

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



Country List



AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU
IE	IT	LV	LT	LU	MT	NL	PL	PT	RO	SE	SI	SK	UK

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

Die Europäische Richtlinie 2012/19/EU 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 Haushaltsmüll 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 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.

Italiano

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

български [Bulgarian] С настоящото UBIQUITI декларира, че това устройство GBE е в съответствие със съществените изисквания и други приложими разпоредби на Директиви 2014/53/ЕС, 2014/30/ЕС, 2014/35/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: ui.com/compliance

Hrvatski [Croatian] UBIQUITI ovim putem izjavljuje da je ovaj uređaj GBE sukladan osnovnim zahtjevima i ostalim bitnim odredbama Direktiva 2014/53/EU, 2014/30/EU, 2014/35/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: ui.com/compliance

Čeština [Czech] UBIQUITI tímto prohlašuje, že toto GBE zařízení, je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnic 2014/53/EU, 2014/30/EU, 2014/35/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: ui.com/compliance

Dansk [Danish] Hermed, UBIQUITI, erklærer at denne GBE enhed, er i overensstemmelse med de væsentlige krav og øvrige relevante krav i direktiver 2014/53/EU, 2014/30/EU, 2014/35/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: ui.com/compliance

Nederlands [Dutch] Hierbij verklaart UBIQUITI, dat deze GBE apparaat, in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijnen 2014/53/EU, 2014/30/EU, 2014/35/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: ui.com/compliance

English Hereby, UBIQUITI, declares that this GBE device, is in compliance with the essential requirements and other relevant provisions of Directives 2014/53/EU, 2014/30/EU, 2014/35/EU. The full text of the EU declaration of conformity is available at the following internet address: ui.com/compliance

Eesti keel [Estonian] Käesolevaga UBIQUITI kinnitab, et antud GBE seade, on vastavus olulistele nõuetele ja teistele asjakohastele sätetele direktiivide 2014/53/EL, 2014/30/EL, 2014/35/EL. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: ui.com/compliance

Suomi [Finnish] Täten UBIQUITI vakuuttaa, että tämä GBE laite, on yhdenmukainen olennaisten vaatimusten ja muiden sitä koskevien direktiivien 2014/53/EU, 2014/30/EU, 2014/35/EU. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: ui.com/compliance

Français [French] Par la présente UBIQUITI déclare que l'appareil GBE, est conforme aux exigences essentielles et aux autres dispositions pertinentes des directives 2014/53/UE, 2014/30/UE, 2014/35/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: ui.com/compliance

Deutsch [German] Hiermit erklärt UBIQUITI, dass sich dieses GBE Gerät, in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinien 2014/53/EU, 2014/30/EU, 2014/35/EU befindet. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: **ui.com/compliance**

Ελληνικά [Greek] Δια του παρόντος, UBIQUITI, δηλώνει ότι αυτή η συσκευή GBE, είναι σε συμμόρφωση με τις βασικές απαιτήσεις και τις λοιπές σχετικές διατάξεις των οδηγιών 2014/53/ΕΕ, 2014/30/ΕΕ, 2014/35/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: **ui.com/compliance**

Magyar [Hungarian] Ezennel UBIQUITI kijelenti, hogy ez a GBE készülék megfelel az alapvető követelményeknek és más vonatkozó 2014/53/EU, 2014/30/EU, 2014/35/EU irányelvek rendelkezéseit. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: **ui.com/compliance**

Íslenska [Icelandic] Hér, UBIQUITI, því yfir að þetta GBE tæki er í samræmi við grunnkröfur og önnur viðeigandi ákvæði tilskipana 2014/53/ESB, 2014/30/ESB, 2014/35/ESB. Fullur texti ESB samræmisýrirlýsing er að finna á eftirfarandi netfangi: **ui.com/compliance**

Italiano [Italian] Con la presente, UBIQUITI, dichiara che questo dispositivo GBE, è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti delle direttive 2014/53/UE, 2014/30/UE, 2014/35/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: **ui.com/compliance**

Latviešu valoda [Latvian] Ar šo, UBIQUITI, deklarē, ka GBE ierīce, ir saskaņā ar būtiskajām prasībām un citiem attiecīgiem noteikumiem Direktīvās 2014/53/ES, 2014/30/ES, 2014/35/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: **ui.com/compliance**

Lietuvių kalba [Lithuanian] UBIQUITI deklaruoja, kad šis GBE įrenginys atitinka esminius reikalavimus ir kitas 2014/53/ES, 2014/30/ES, 2014/35/ES Direktyvų nuostatas. Visas ES atitikties deklaracijos tekostas prienamas šiuo interneto adresu: **ui.com/compliance**

Malti [Maltese] Hawnehkk, UBIQUITI, tiddikjara li dan il-mezz GBE huwa konformi mar-rekwiżiti essenzjali u dispożizzjonijiet rilevanti oħrajn ta' Direttivi 2014/53/UE, 2014/30/UE, 2014/35/UE. Id-dikjarazzjoni tal-konformità tista' tiġi kkonsultata minn **ui.com/compliance**

Norsk [Norwegian] Herved UBIQUITI, erklærer at denne GBE enheten, er i samsvar med de grunnleggende kravene og andre relevante bestemmelser i direktivene 2014/53/EU, 2014/30/EU, 2014/35/EU. Den fulle teksten til EU-samsvarserklæringen er tilgjengelig på følgende internetadresse: **ui.com/compliance**

Polski [Polish] Niniejszym, UBIQUITI, oświadcza, że urządzenie GBE, jest zgodny z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektyw 2014/53/UE, 2014/30/UE, 2014/35/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: **ui.com/compliance**

Português [Portuguese] UBIQUITI declara que este dispositivo GBE, está conforme com os requisitos essenciais e outras disposições das Directivas 2014/53/UE, 2014/30/UE, 2014/35/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: **ui.com/compliance**

Română [Romanian] Prin prezenta, UBIQUITI declară că acest dispozitiv GBE este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivelor 2014/53/UE, 2014/30/UE, 2014/35/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: **ui.com/compliance**

Slovenčina [Slovak] Týmto UBIQUITI, prehlasuje, že toto GBE zariadenie, je v súlade so základnými požiadavkami a ďalšími relevantnými ustanoveniami smernice 2014/53/EÚ, 2014/30/EÚ, 2014/35/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: **ui.com/compliance**

Slovenščina [Slovenian] Družba UBIQUITI izjavlja, da je naprava GBE v skladu z obveznimi zahtevami in drugimi ustreznimi določbami direktiv 2014/53/EU, 2014/30/EU in 2014/35/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: **ui.com/compliance**

Español [Spanish] Por medio de la presente UBIQUITI declara que este dispositivo GBE, cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de las Directivas 2014/53/UE, 2014/30/UE, 2014/35/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: **ui.com/compliance**

Svenska [Swedish] Härmed UBIQUITI, intygar att denna GBE enhet är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiven 2014/53/EU, 2014/30/EU, 2014/35/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: **ui.com/compliance**

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