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NanoBeam 5AC Gen 2 Ball Joint Mount Lock Ring Metal Strap Gigabit PoE (24V, 0.5A) with Mounting Bracket Power Cord Pole-mounting: use a 7 mm socket wrench or screwdriver Wall-mounting: install wall fastener (not included) Shielded Category 5 (or above) cabling with drain wire is required for all wired Ethernet connections and must be grounded through the AC ground of the PoE. We advise protecting your networks from harsh outdoor environments and destructive ESD events using industrial-grade, shielded Ethernet cable from Ubiquiti. For more information, visit ui.com/toughcable Surge protection should be used for all outdoor installations. We recommend using two Ethernet Surge Protectors, model ETH-SP, one near the NanoBeam and the other at the entry point to the building. The ETH-SP will absorb power surges and safely discharge them into the ground. Main Ethernet Port This Gigabit Ethernet port is used to connect power and must be connected to the LAN and DHCP server. 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. Secondary Ethernet Port This Gigabit Ethernet port provides passthrough PoE to power and connect a 24V passive PoE device to the network. Note: In order to use PoE Passthrough on the Secondary port, a 24V, 1A PoE adapter is required. Power LED The Power LED will light blue when the device is connected to a power source. Main LED The LED will light steady blue when an active Ethernet connection is made to the Main port and flash when there is activity. LAN2 LED The LED will light steady blue when an active Ethernet connection is made to the LAN2 port and flash when there is activity. Signal LEDs In airOS, you can modify the threshold value for the wireless signal strength LEDs on the Wireless tab under Signal LED Thresholds. Each LED will light when the wireless signal strength is equal to or greater than the LED’s threshold value. The default threshold values for these LEDs are shown below: Hardware Installation Go to the appropriate mounting instructions: Pole Mounting or “Wall Mounting”. Pole Mounting Wall Mounting The NanoBeam 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 OR Aiming WARNING: The switch port must comply with the power specifications listed in this Quick Start Guide. OR Optional 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 NBE-5AC-Gen2 Dimensions 189 x 189 x 125 mm (7.44 x 7.44 x 4.92") Weight 530 g (1.17 lb) Gain 17 dBi Networking Interface (2) 10/100/1000 Ethernet Ports Wi-Fi for Management Enclosure Outdoor UV Stabilized Plastic Max. Power Consumption 8.5W Power Supply 24V, 0.5A Gigabit PoE Adapter (Included) Power Method 24V Passive PoE In (Pairs 4, 5+; 7, 8 Return) PoE Passthrough 24V Passive PoE Out (Pairs 4, 5+; 7, 8 Return) Wind Loading 45.4 N @ 200 km/h (10.2 lbf @ 125 mph) Wind Survivability 200 km/h (125 mph) Operating Temperature -40 to 80° C (-40 to 176° F) Operating Humidity 5 to 95% Noncondensing Salt Fog Test IEC 68-2-11 (ASTM B117),Equivalent: MIL-STD-810 G Method 509.5 Vibration Test IEC 68-2-6 Temperature Shock Test IEC 68-2-14 UV Test IEC 68-2-5 at 40° C (104° F)Equivalent: ETS 300 019-1-4 Wind-Driven Rain Test ETS 300 019-1-4Equivalent: MIL-STD-810 G Method 506.5 Mounting Pole-Mount (Kit Included) Wall-Mount (Not Included) ESD/EMP Protection ± 24kV Contact/Air Certifications CE, FCC, IC Operating Frequency (MHz) Worldwide 5150 - 5875 US/CA U-NII-1 5150 - 5250 U-NII-2A 5250 - 5350 U-NII-2C 5470 - 5725 U-NII-3 5725 - 5850 Management Radio (MHz) Worldwide 2412 - 2472 US/CA 2412 - 2462NanoBeam AC Gen 2 - A Comprehensive Quick Start Guide connection is made to the LAN port and flash occurs upon activity. signal leds in airOS® you can modify threshold values for wireless signal strength leds on wireless tab under Signal Led Thresholds each led lights when wireless signal strength equal or greater than led's threshold value default threshold values shown below: Hardware Installation Mounting instructions available: pole mounting wall mounting nanoBeam must be mounted directly wood stud other structurally stable surface avoid damage mounting hole when adjust aim optional accessory enhance stability use nanoBeam Wall Mount Kit model NBE-WMK sold separately note center screw included two optional screws not included provide additional stability OR Aiming Warning switch port comply power specifications listed in this guide Optional Devices must professionally installed responsibility professional installer make sure device operated local country regulatory requirements output Power field provided assist meeting regulatory requirements Specs NBE-5AC-Gen2 Dimension 189 x 189 x 125mm Weight 530g gain 17dBi Networking Interface Ethernet Ports Wi-Fi management Enclosure outdoor UV stabilized plastic max power consumption 8.5w Power Supply 24V 0.5A Gigabit PoE Adapter Included Power Method 24V Passive PoE In Pairs 4, 5+7, 8 Return POE Passthrough 24V Passive PoE Out Pairs 4, 5+7, 8 Return Wind Loading 45.4N @200km/h Operating Temperature -40 to 80°C Operating Humidity 5-95% Noncondensing Salt Fog Test IEC68-211 ASTM B117 Equivalent MILSTD810G Method 509.5 Vibration Test IEC68-26 Temperature Shock Test IEC68-214 UV Test IEC68-25 at 40°C Wind-Driven Rain Test ETS3000191-4 Equivalent MILSTD810G Method 506.5 Mounting Pole-Mount Kit Included Wall-Mount Not Included Introduction Thank you purchasing Ubiquiti Networks NanoBeam AC Gen2 This Quick Start Guide designed guide installation also includes warranty terms Package Contents NanoBeam AC Gen2 Ball Joint Metal Strap Gigabit PoE 24V 0.5A TERMS OF USE Ubiquiti radio devices must professionally installed Shielded Ethernet cable earth grounding used conditions product warranty TOUGH Cable Designed outdoor installations Customer’s responsibility follow local country regulations including operation legal frequency channels output power Dynamic Frequency Selection requirements Guide Installation Requirements NanoBeam can pole or wall mounted Metal Strap included for pole-mounting Wall-mounting suitable fastener screw bolt not included recommended Shielded Category 5 above cabling used wired Ethernet connections grounded AC ground PoE Power cord Quick Start Lock Ring The NanoBeam is designed with stability in mind, allowing for optimal positioning and aiming. By utilizing the Wall Mount Kit, model NBE-WMK (sold separately), additional stability can be achieved. Instructions for mounting and installing the NanoBeam are as follows: Mark the desired location of the mounting point, then drill a pilot hole if necessary. Next, insert the Ball Joint Mount into the Lock Ring with threads facing the ball joint. Securely tighten any fasteners used in the installation process. For optimal aiming, ensure that the front of the NanoBeam is aligned towards the wireless link while using a bubble level to maintain level alignment. Hand-tighten the Lock Ring to lock the aim, taking care not to over-tighten. Connecting the PoE Adapter involves removing the port cover and connecting an Ethernet cable to the Ethernet port. The Power over Ethernet connection can be achieved by connecting the Ethernet cable from the NanoBeam to the POE port on the Gigabit PoE Adapter. Additionally, power should be provided through a 24V, 0.5A power supply. It is recommended that devices are professionally installed and operated within local country regulatory requirements. The Output Power field can be used by the installer to meet these requirements. The equipment provided by UBIQUITI NETWORKS is designed with a detachable power cord that features an integral safety ground wire, intended for connection to a grounded safety outlet. It is crucial to use only the approved type of power cord and avoid using adapter plugs on 2-wire outlets, as this can compromise the grounding wire's continuity. The equipment requires the utilization of the ground wire for safety certification, and any modifications or misuse can pose a shock hazard, potentially resulting in serious injury or death. It is recommended to contact a qualified electrician or the manufacturer prior to connecting the equipment if there are any concerns about installation. Additionally, protective earthing is provided by the Listed AC adapter, and building installations must ensure appropriate short-circuit backup protection. Protective bonding must be installed according to local national wiring rules and regulations. UBIQUITI NETWORKS offers a limited warranty of one year from the date of shipment under normal use and operation. The company's sole obligation and liability under this warranty is to repair or replace any defective product during the specified period, at their discretion. However, certain conditions may void the warranty, including modifications or alterations made by anyone other than UBIQUITI NETWORKS or its authorized representatives, physical damage due to painting or rebranding, misuse, or negligence. Additionally, the warranty does not apply if the product has been damaged or impaired as a result of using third-party firmware or if it lacks original Ubiquiti MAC labels. The warranty terms provided by local law do not exclude or modify any mandatory statutory rights applicable to the license of software embedded in the product. The United Nations Convention on Contracts for the International Sale of Goods does not apply to any transactions regarding the sale of products. Compliance with FCC changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules, and operation is subject to two conditions: (1) this device must 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. However, if not installed and used in accordance with the instruction manual, this equipment may cause harmful interference to radio communications. Operations of this equipment in a residential area may likely cause harmful interference, requiring the user to correct the interference at their own expense. This radio transmitter FCC ID: SWX-NBE5ACG2 has been approved by FCC to operate with the antenna types listed below, along with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device. Antenna Information: Integrated antenna, gain: 19 dBi Industry Canada CAN ICES-3(A)/NMB-3(A) This Class A digital apparatus complies with Canadian CAN ICES-003. To reduce potential radio interference to other users, the antenna type and its gain should be chosen so 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's 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. Ubiquiti Networks prokláma, že toto zařízení splňuje základné Requirements a další relevantní předpisy směrnice 1999/5/ES. Zde, UbiquitI Networks uvede, že toto zařízení je v souladu s výslovnými требованиями a dalšími relevantními ustanovení direktivy 1999/5/EK. Hiermit erklärt UbiquitI Networks, dass sich dieses Geräts, in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. 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With its industrial-grade shielded Ethernet cable and surge protection, you can protect your networks from harmful outdoor environments and destructive ESD events. 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 buyers selection of products including the products for buyers 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 so youve just got your shiny new unifi access point and have yet to go through the setup process of installing the unit during this process when you adopt the unifi wireless ap into the controller software you will be asked to assign a username and password to be clear this isnt asking you what the current username and password is its asking you to assign new ones that you have thought of with your own fragile mind. this is what the unifi controller software login screen will look like so in the above specific situation where a customer is setting up a unifi access point for the first time and using the ubiquiti controller software to manage the ap you will need to create a memorable username and password of your own and write it down make sure you keep this somewhere safe store a physical copy somewhere where you wont lose it or forget where you put it and create a text file on your phone or laptop with this information stored for future use. inevitably at some point you will need to use this username and password again and you will thank yourself when you remember where it is you stored that information another scenario involving the default username and password for unifi access points and many other ubiquiti products would be when accessing the unit via ssh in this case and if you havent already adopted the ap into the controller software as mentioned above you would then need to use the default username and password which is always username ubnt and password ubnt. as long as the unifi access point has not been previously setup or adopted by the software and only if you are attempting to connect via ssh then always use the default username and password of ubnt / ubnt when customers initially set up their unifi access point in the controller software if you dont specify a password when you add a new location or access point it will auto generate a password for you this information can be found by looking in the very bottom left corner of the unifi software dashboard and clicking on the small gear icon which will bring you to the settings page where the username and password are available to view or edit. this is in the bottom section of the screen labelled device authentication simple click the tiny eye icon to reveal your password your settings page should look something like the below depending on the version of the software youre using note the screenshot below is a newer version of the software some customers may not see reference to ssh it will simply read device authentication this is where the auto-generated password will be shown. each new device or location will have a settings page like this you can access each individual settings page for different aps by clicking the dropdown box the top right of the dashboard labelled locations another possible situation you might also encounter with regards to the default username and password of the unifi access point is if the ap has had ssh already enabled within the unifi controller softwareThe initial setup of UniFi devices often includes default passwords that can be used for SSH access. However, these credentials are only valid before the device is adopted or configured. After adoption, a random device password is generated and applies to all connected devices. This means that standard default passwords will not work once a device has been adopted. To determine the default passwords for specific UniFi devices, it's essential to understand how SSH passwords function. The default credentials are only valid before the device is set up with an adopted password. If you're having trouble accessing your device using its default password, consider checking the Device Authentication settings in the UniFi Network console. For older access points, the default username and password combinations are ui/ui for newer devices and ubnt/ubnt for older ones. However, if you've adopted a device before, it's recommended to check the Device SSH Authentication credentials in the settings to ensure they're correctly configured. Accessing UniFi consoles and gateways before they're set up with standard passwords is possible through SSH using the root/ui combination for newer devices or root/ubnt for older ones. However, if these credentials don't work, your only option is to perform a factory reset. The UniFi Network application can also be managed on a computer or server without any default password requirement. When installed, you configure a username and password that should be remembered for future access. If you forget the credentials, removing the application and clearing local data stored on your computer/server may help. Nevertheless, resetting everything to factory settings is often the best solution if all else fails.