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## Ubiquiti bullet m2 login

platypus boat. doc Bullet M2HP (Datasheet) is a high power WiFi radio adapter by Ubiquiti. Features: 100+ Mbps throughput Weatherproof design Compatible with high-gain antennas (N-type connector) Communication range up to 50 km (depending on the antenna) Power-over-Ethernet (PoE) In the case of the Platypus boat, the Bullet is used as an access point (hotspot), generating a long-range WiFi (WLAN) network for communication between the boat and the on-shore devices. It connects to the Raspberry Pi via its Ethernet port (LAN). As the radio is powered through PoE, it comes with a PoE adapter as seen in the image below (exact model may differ): After plugging the adapter to a power outlet, the PoE port connects to the Bullet, while the LAN port connects to the Raspberry Pi's Ethernet port. In the Platypus boat, the connection is the same, except for the power which comes from the boat's electronics board, as shown in the diagram below: From a factory reset, the Bullet can be accessed through its standard IP (192.168.1.20). However, its default settings are WiFi station and bridge mode. As such, it does not generate a WiFi network nor runs a DHCP server, meaning that a physical cable connection and manual IP setting are necessary. The computer/Raspberry must also be operating in the same IP range as the Bullet, thus it must be a 192.168.1.x IP. For this initial setup, it is recommended to connect the Bullet to a conventional computer, as the configuration is done via browser (or to a Raspberry running a graphical interface OS). In Linux, we can manually connect to the bullet through the ifconfig command. After connecting the LAN adapter port into the computer, run: to find out which interface is responsible for Ethernet (e.g., eth0, enp0s3). To manually assign an IP and connect, run: \$ sudo ifconfig 192.168.1.x netmask 255.255.255.0 where x is a number from 1 to 254, excluding 20. For example: \$ sudo ifconfig eth0 192.168.1.7 netmask 255.255.255.0 The Bullet configuration page can be accessed in a browser by the address . A untrusted connection or security certificate warning may appear, which can be safely ignored. A screen like the one below will appear: To connect and configure the M2 Bullet, use the credentials: login: ubnt password: ubnt To configure the Bullet as an access point, change the following configurations in the Wireless tab: Wireless mode: Access Point SSID: Channel Width: 20 MHz Frequency, MHz: 2412 Output power: Max Security: None (you may setup WPA-PSK or WPA2-PSK if preferred) Click "Change" but do not click "Apply" yet. In the leftmost tab, uncheck the "AirMax" box and click "Change". This is sufficient to configure the radio as an Access Point, and it will generate a WiFi network with the specified SSID. However, there are two possible configurations regarding the Bullet's network role: Bridge and Router mode. Note The typical configuration is to use the Bullet in Router mode with a DHCP server, as to automatically address an IP to each connecting device. If this is the case, this configuration can be performed in the "Network" tab and the changes can be applied with the "Apply" button. After a short connection drop, you may connect to the access point's WiFi network and access it with the IP specified in the "Network" tab. As the Router mode isolates the LAN and WLAN interfaces, connection between wireless devices and the Raspberry's Ethernet becomes impossible. Thus, in the case of the Platypus boat, the radio must be configured in Bridge mode. In the Network tab, modify the following fields to configure the radio in bridge mode: Network mode: Bridge Management IP Address: Static IP Address: (e.g., 192.168.10.20) Netmask: 255.255.255.0 Gateway IP: (e.g., 192.168.10.1) Primary DNS: 8.8.8.8 Click Change and then Apply. After a short connection drop, the radio will generate a WiFi network with the SSID specified in the Wireless tab. As there is no DHCP server, the Raspberry and WiFi devices must be manually connected to the Bullet. Once again, this can be done with the ifconfig command in Linux. For the Raspberry, the interface used is the Ethernet (e.g., eth0). After connecting the LAN cable on the Raspberry's Ethernet port, run: \$ sudo ifconfig netmask 255.255.255.0 For example: \$ sudo ifconfig eth0 192.168.10.210 netmask 255.255.255.0 Setting IP by ifconfig will assign the IP temporarily to the port. In order to fix a static IP to the Raspberry Pi, the /etc/dhcpd.conf must be edited, adding the following lines to the end of the file: interface eth0 static ip address=192.168.10.210/24 static routers=192.168.10.1 static domain name servers=192.168.10.1 An IP must also be manually set for the WiFi devices. In Android 7.0, this can be done as follows: Settings -> Connections -> Wi-Fi Touch the Bullet's WiFi network Check "Show advanced options" IP settings -> Static IP address -> IP in the same range as the Bullet (e.g., 192.168.10.207) Gateway -> Same as specified in the "Network" tab (e.g., 192.168.10.1) DNS 1 -> 8.8.8.8 To test the connection, run the "ping" command on the Raspberry: \$ ping or on the WiFi device (if available): If successful, there should be a response such as: PING 192.168.10.207 (192.168.10.207) 56(84) bytes of data. 64 bytes from 192.168.10.207: icmp\_seq=1 ttl=64 time=7.03 ms 64 bytes from 192.168.10.207: icmp\_seq=2 ttl=64 time=17.1 ms ... © Copyright 2017, Alexandre Amory Revision a45d0cca. Built with Sphinx using a theme provided by Read the Docs. Loading Ubiquiti Community Loading Ubiquiti Community Loading Ubiquiti Community Bullet M2 Compression Seal 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.. 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, 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. Hardware Overview Signal LEDs In airOS®, you can modify the threshold values for the wireless signal strength LEDs on the Advanced tab under Signal LED Thresholds. The default values are shown below: Ethernet LED The Ethernet LED will light steady green when an active Ethernet connection is made and flash when there is activity. Power LED The Power LED will light green when the device is connected to a power source. Reset Button To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the device is powered on. Ethernet Port This 10/100 Ethernet port is used to connect the power and should be connected to the LAN and DHCP server. Hardware Installation Verify connectivity in the airOS® Configuration Interface. Make sure that your host machine is connected via Ethernet to the device. Configure the Ethernet adapter on your host system with a static IP address on the 192.168.1.x subnet. Launch your web browser and type in the address field. Press enter (PC) or return (Mac). 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. 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: ui.com/download/airmax You can also manage your device using the Ubiquiti Network Management System. Setup using the UISP™ app requires the U-Installer, sold separately. 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. Antena Select your antenna from the list. Ensure Calculate EIRP Limit is enabled; transmit output power is automatically adjusted to comply with the regulations of the applicable country. For a Custom antenna, Antenna Gain is entered manually. Note the requirements and antenna types listed below. Cable Loss (When applicable) Enter the cable loss in dB. Output power is adjusted to compensate for loss between the radio and the antenna. Certified Antenna Types This radio transmitter FCC ID: FCC: SWX-M2BW / IC: 6545A-M2BW has been approved by FCC / ISED Canada to operate with the antenna types listed below with the maximum permissible gain for each antenna type indicated. Antenna types not included in this list or having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device. Antenna Frequency Gain Omni 2.4 GHz 13 dBi Sector 2.4 GHz 17 dBi Dish 2.4 GHz 24 dBi Specifications BulletM2-HP Dimensions 163.65 x 38.75 x 38.75 mm(7.48 x 1.53 x 1.53") Weight 130 g (4.59 oz) Enclosure Polycarbonate Networking Interface 10/100 Mbps Antenna Connector N-Type Connector LEDs Power, Ethernet, (4) Signal Strength Max. Power Consumption 7W Output Power 25 dBm Power Supply AC to 24VDC, 0.5A Gigabit PoE Adapter Power Method 24V Passive PoE (Pairs 4, 5+; 7, 8-) ESD/EMP Protection ± 24 kV Contact/Air Operating Temperature -40 to 70° C (-40 to 158° F) Operating Humidity 5 to 95% Condensing Shock and Vibration ETSI300-019-1.4 Certifications CE, FCC, IC Operating Frequency (MHz) US/CA 2412 - 2462 Worldwide 2412 - 2472



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