



mPower[™] PRO

*8-Port mFi Power Strip
with Ethernet and Wi-Fi*

Model: mPower PRO



QUICK START GUIDE

Introduction

Thank you for purchasing the Ubiquiti Networks™ mFi™ mPower™ PRO. The mFi mPower PRO is designed for use with the mFi platform. Once connected, you can use the mFi Controller software to monitor your devices and define automation rules using your web browser. This Quick Start Guide is designed to guide you through the installation and also includes the Warranty terms.

Package Contents



Cloud Support

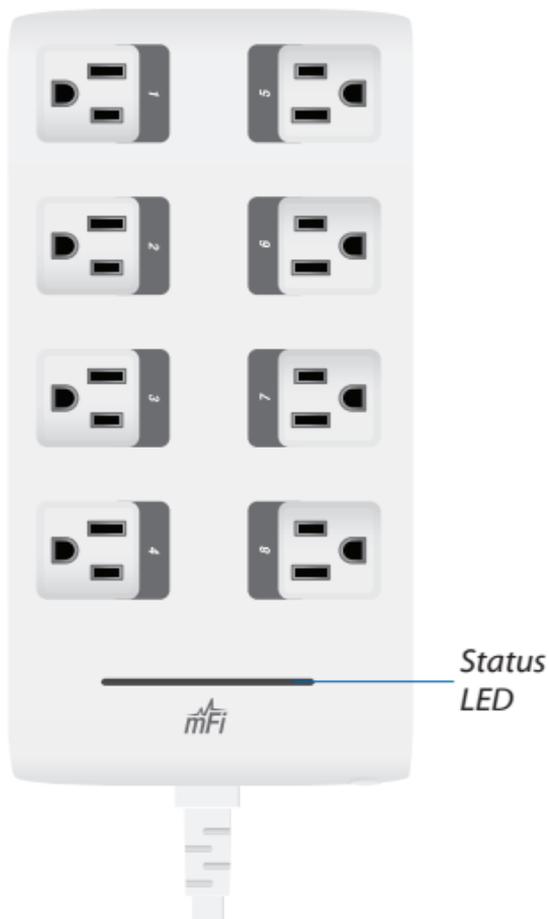
The mFi Controller software can be installed on a local system or run from the cloud at **mfi.ubnt.com**. Using the cloud allows you access from anywhere with an Internet connection.

System Requirements

- Microsoft Windows XP, Windows Vista, Windows 7, Windows 8, or Mac OS X
- Java Runtime Environment 1.6 (or above)
- Web Browser: Mozilla Firefox, Google Chrome, or Microsoft Internet Explorer 8 (or above)

Hardware Overview

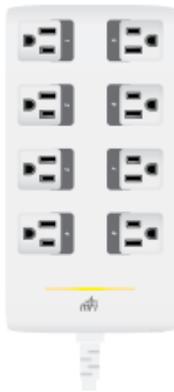
Top



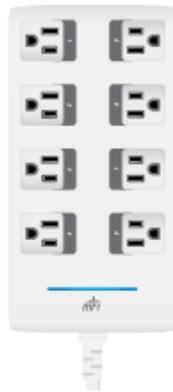
Front



Status LED The *Status* LED primary states are listed below:



Solid yellow When first powered on in factory default mode.



- **Flashing blue** Connecting to mFi Cloud or Controller.
- **Solid blue** Successfully connected to mFi Cloud or Controller.

Device Reset Button The *Device Reset* button serves two functions:

- **Restart** Restarts the device when you press and release it quickly.
- **Restore Factory Defaults** Press and hold until the LED alternates colors and then remains steady yellow to restore the device to the factory default settings.

Ethernet Port Used to connect to an Ethernet network and also configuration of Controller and Wi-Fi settings.

Circuit Breaker Reset Button When excessive current triggers the circuit breaker, the outlets will shut off. Press this button to reset the circuit breaker.

Hardware Installation

1. Connect the mPower PRO to a power outlet.

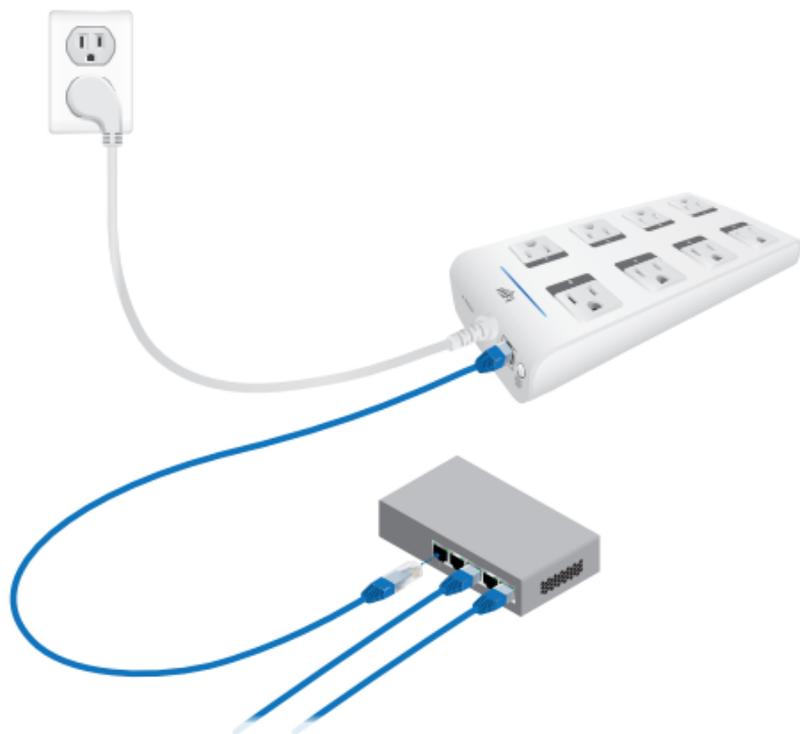


2. Connect an Ethernet cable to the *Ethernet* port on the mPower PRO.



The mPower PRO can be connected to your network using one of two methods:

- **Ethernet** The mPower PRO is DHCP-enabled. Connect the Ethernet cable from the mPower PRO to your LAN.



- **Wi-Fi** The mPower PRO can connect to a wireless network once Wi-Fi settings have been configured using the Ethernet connection. For instructions, refer to *Accessing the Configuration Portal* on page 15.

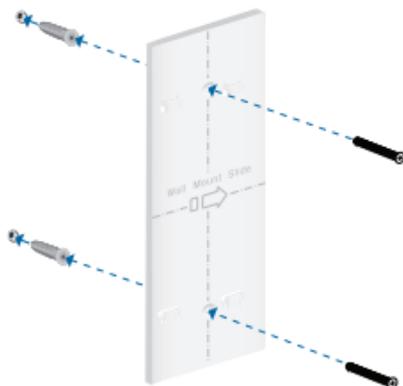
Wall-Mount

The mPower PRO includes an optional mounting plate.

1. Position the *Mounting Plate* on the wall with the text in the proper orientation, and mark the mounting holes on the wall.



2. Use a 6 mm drill bit to drill the holes.
3. Insert the anchors into the holes and use a Phillips screwdriver to secure *Screws* through the *Mounting Plate* into the *Anchors*.



4. Align the back of the mPower PRO with the *Mounting Plate*. Slide the mPower PRO to the right to lock it into place.



Software Download and Installation

For local mFi Controller installations, the mFi Controller software is installed just once when you initially create a mFi network. It is not necessary to go through the software installation process every time you add another mFi device.



Note: If you are using the cloud, there is no need to install the mFi Controller software locally. Skip to *Accessing the Configuration Portal* on page 15.

The mFi Controller software can be downloaded from the Ubiquiti Networks website.

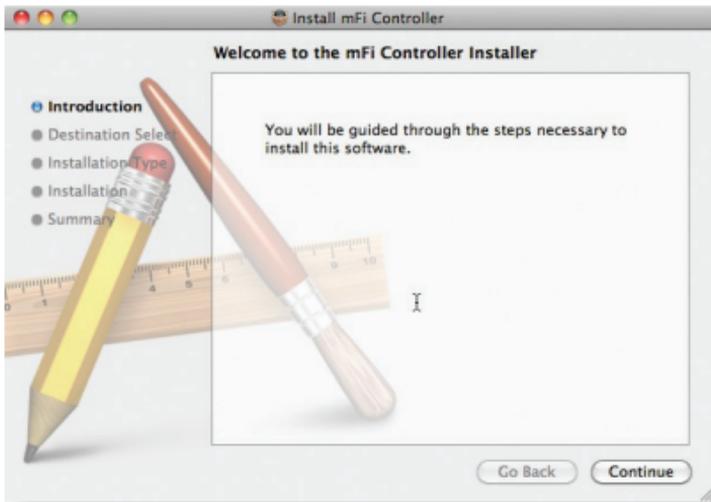
1. Go to **downloads.ubnt.com/mfi**
2. Mac users should download **mFi.dmg** and Windows users should download **mFi-installer.exe**.
3. Follow the instructions for your computer type.

Mac Users

1. Click the **Install** icon.



2. Click **Continue** and follow the on-screen instructions to install the software.



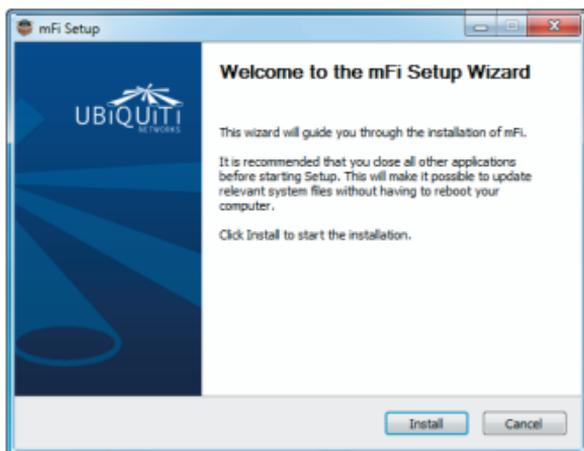
3. Go to **Go > Applications** and double-click the **mFi** icon.



Proceed to *Configuring the mFi Controller Software* on page 12.

PC Users

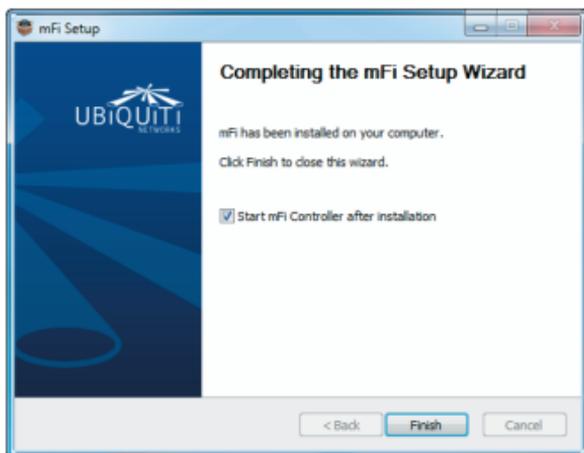
1. Launch **mFi-installer.exe**.
2. Click **Install**.



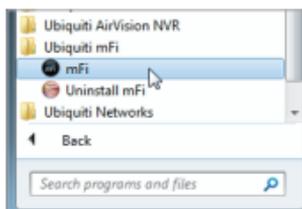
3. If your computer doesn't have Java 1.6 or above installed, you will be prompted to install it. Click **Install** to continue.



4. Ensure the *Start mFi Controller after installation* option is checked and click **Finish**.



Note: The mFi Controller software can also be launched from **Start > All Programs**.

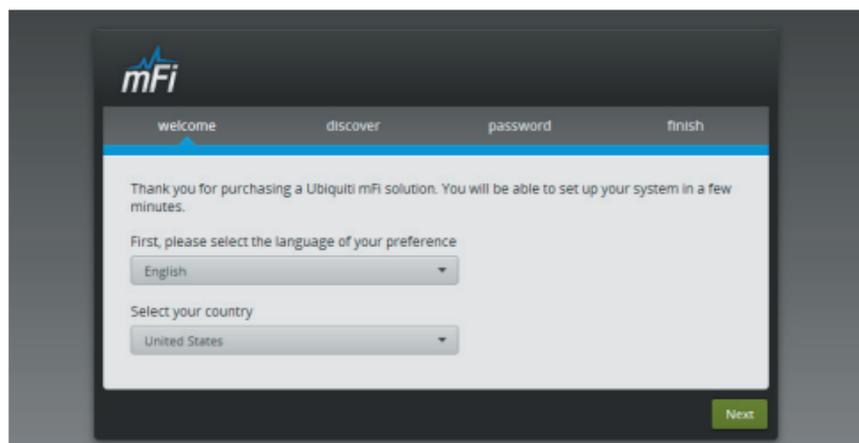


Configuring the mFi Controller Software

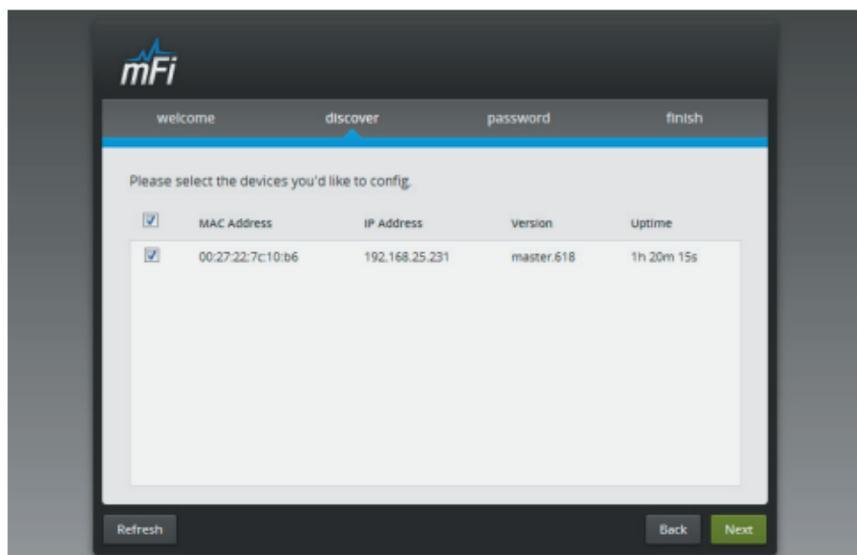
1. The mFi Controller software startup will begin. Click **Launch a Browser to Manage the Network**.



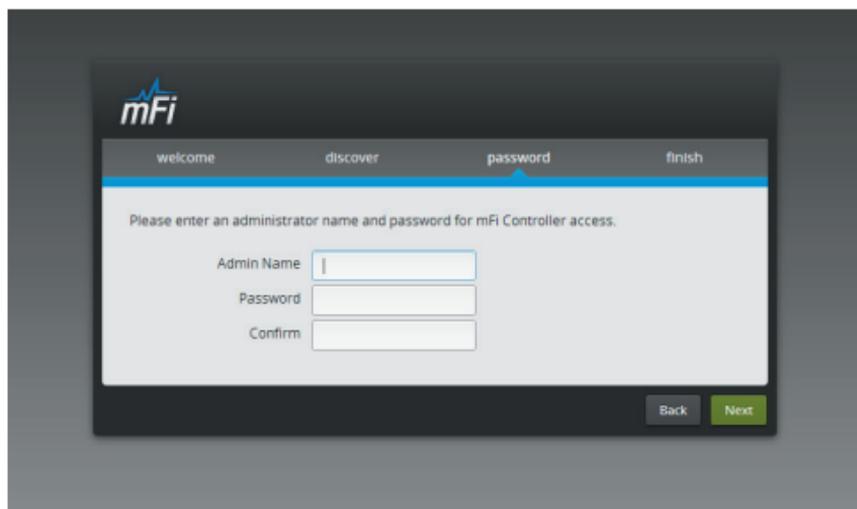
2. The *mFi Configuration Wizard* will appear the first time you launch the mFi Controller software. On the *Welcome* screen, select your language and country. Click **Next**.



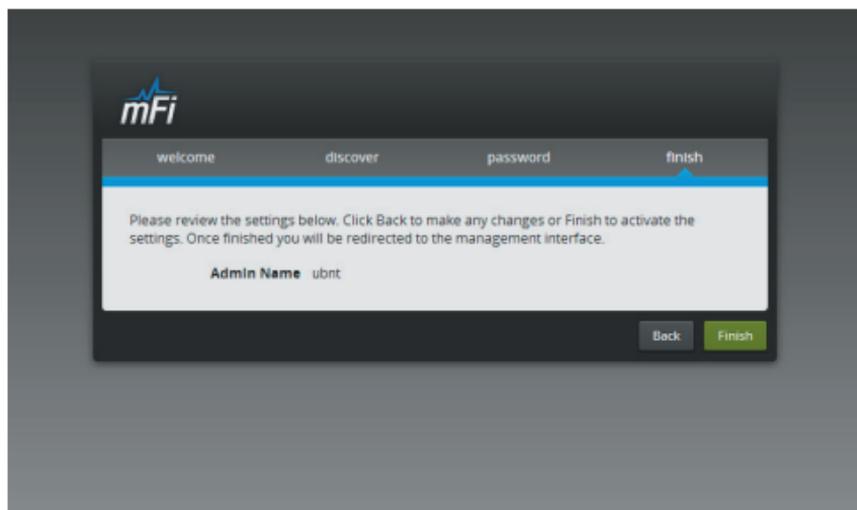
3. Select the device(s) that you want to configure. The **Refresh** button can be used to refresh the list of devices. Click **Next** to continue.



4. Enter an administrator name in the *Admin Name* field. Enter a password in the *Password* and *Confirm* fields. Click **Next**.



5. Click **Finish** to confirm your settings.



6. A login screen will appear for the mFi Controller management interface. Enter the *Admin Name* and *Password* that you created and click **Login**.



Accessing the Configuration Portal

You need to connect to the Configuration Portal to configure any of the following:

- Cloud access
- Access to local mFi Controller on a different IP network.
- Wireless network access (Wi-Fi settings)



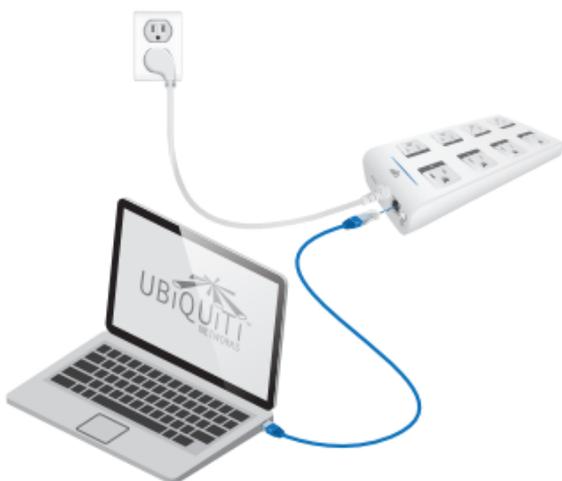
Note: If you are not using these configurations, you do not need to access the Configuration Portal.

The Configuration Portal can be accessed in two ways:

- Connect an Ethernet cable directly from your computer to the *Ethernet Port* on the mPower PRO and configure your computer with a static IP address.
- Connect an Ethernet cable from your DHCP-enabled LAN to the *Ethernet Port* on the mPower PRO.

Configuration Portal via Ethernet to Computer

1. Make sure that your computer is connected directly to the mPower PRO using a standard Ethernet cable.

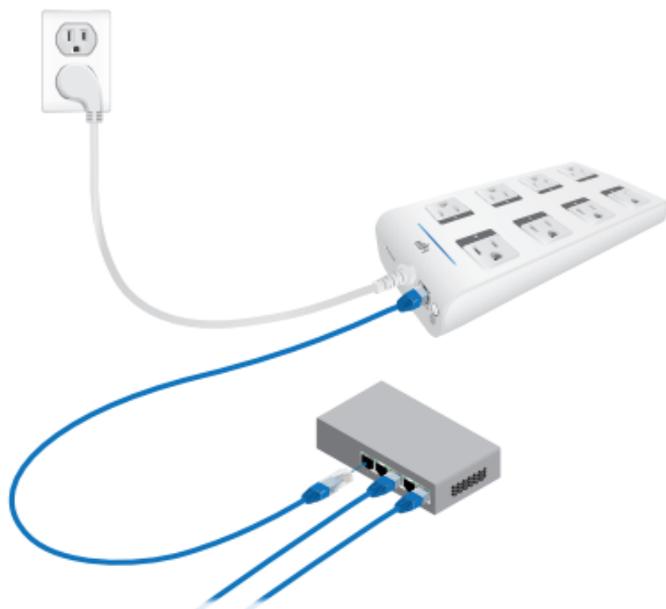


2. Configure the Ethernet adapter on your computer with a static IP address on the 192.168.1.x subnet.
3. Launch your web browser and type **http://192.168.1.20** in the address field. Press **enter** (PC) or **return** (Mac).



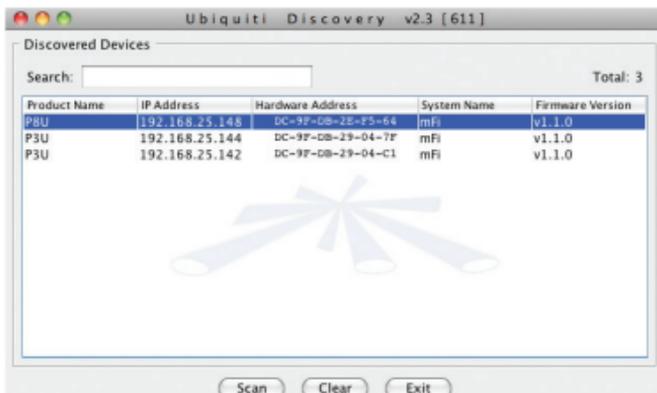
4. Go to *Configuration Portal Interface Settings* on page 18.

Configuration Portal via LAN with DHCP



If it is not already installed, download the Ubiquiti Device Discovery Tool (v2.3) at **www.ubnt.com/download#app**

1. Launch the *Ubiquiti Device Discovery Tool*.
2. A list of Ubiquiti devices on the network will appear. Locate the appropriate device (named P8U) under *Product Name* and double-click it.



Note: If you have more than one of the same device model, you can determine which one you are selecting by checking the Hardware (MAC) Address on the device label.

3. Click **WEB UI** on the right.



Configuration Portal Interface Settings

1. The login screen will appear. Enter **ubnt** in the *Username* and *Password* fields.



2. The *Main* tab of the *Configuration Portal* will appear. Click the **Configuration** tab.



3. Enter your configuration information on the *Configuration* tab:



mFi Controller Select the mFi Controller from the drop-down and enter the Controller information:

- **Cloud** Enter the email and password used to register at *mfi.ubnt.com*.

The screenshot shows a window titled "mFi Controller". It contains three fields: "Controller" is a dropdown menu with "Cloud" selected; "Email" is an empty text input field; and "Password" is an empty text input field.

- **Local** Enter the following settings:
 - **Address** The IP address and http port used by the Controller. (The port is usually 6080, for example: 1.1.1.1:6080 or mfi.acme.com:6080).
 - **User** The user name defined during the mFi Configuration Wizard.
 - **Password** The password defined during the mFi Configuration Wizard.

The screenshot shows a window titled "mFi Controller". It contains four fields: "Controller" is a dropdown menu with "Local" selected; "Address" is a text input field containing the example "example.1.1.1.1:6080"; "User" is an empty text input field; and "Password" is an empty text input field.

Wireless Settings To use the mPower PRO on a Wi-Fi network, configure the *Wireless Settings*:

The screenshot shows a window titled "Wireless Settings". It contains several configuration options:

- SSID: [] [Scan...]
- Security: none [v]
- Authentication Type: Open Shared Key
- WEP Key Length: 64 bit [v] Key Type: HEX [v]
- WEP Key: [] Key Index: 1 [v]
- WPA Authentication: PSK [v] EAP-TTLS [v] MSCHAPV2 [v]
- WPA Preshared Key: []
- WPA Identity: []
- WPA User Name: []
- WPA User Password: []

- Click **Scan** for a list of available SSIDs and select the appropriate SSID or type in the name manually in the *SSID* field.
- Select the appropriate *Security* and *Authentication* settings for your network.
- Enter your network key.

After you've entered the necessary settings, click **Change**. You will be asked to apply the changes; click **Apply**.

- Click the **Main** tab. The Controller and WLAN status should be displayed confirming your connection. Click the **Refresh** button, if necessary.

The screenshot shows the mPower mFi Configuration page. The 'Status' tab is active, displaying the following information:

Device Name:	mFi	Controller:	Connected
Wireless Mode:	Station	IP/MAC:	10.0.2.28 / 02:00:00:00:00:2A
SSID:	WPA1-00	Signal Strength:	40 dBm
Security:	WPA2-TKIP	Noise Floor:	-94 dBm
Version:	master	Transmit CQD:	0.1 %
Uptime:	10:21:47	Tx/Rx Rate:	242.0 Mbps / 110.0 Mbps
Date:	2010-09-09 09:44:23	WLAN IP Address:	10.0.2.103
Channel/Frequency:	1 (2412 MHz)	LAN IP Address:	0.0.0.0
AOC/Detection:	84 (3.7 mSec (3.1 km))	WLAN MAC:	00:0F:0B:0E:F4:0F
Tx/Rx Chain:	0/0	LAN MAC:	00:0F:0B:0E:F4:0F
		LAN:	10Mbps

Below the status section, there is a 'Monitor' section with two graphs:

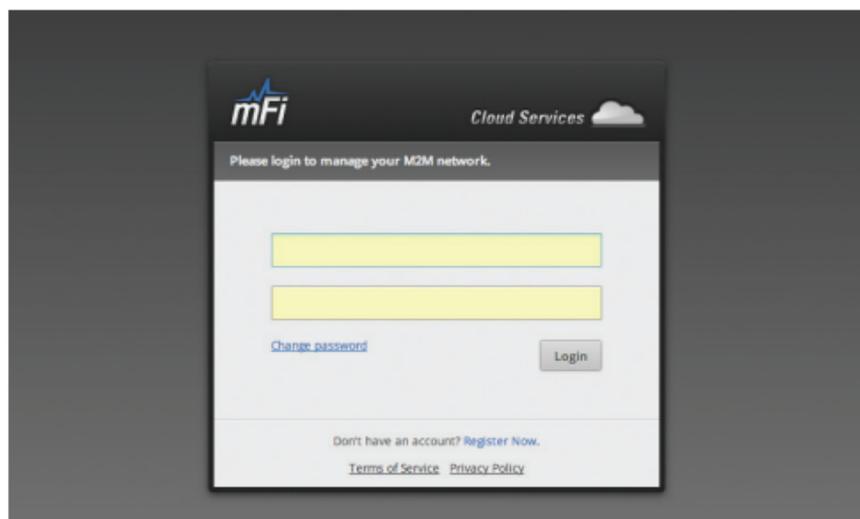
- WLAN Throughput:** A line graph showing throughput over time. The y-axis ranges from 0 to 100. The data points are all at 0.
- WLAN RSSI & Ping:** A line graph showing RSSI and Ping over time. The y-axis ranges from 0.0 to 1.0. The data points fluctuate between 0.0 and 1.0.

A 'Refresh' button is located at the bottom right of the Monitor section.

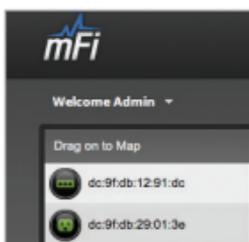


Note: If the status doesn't appear to be connected after several refresh attempts, go back to the *Configuration* page and enter your settings again.

5. Log in to the mFi Controller.



6. The mPower PRO appears with the mPower  icon in the left panel under the *Drag on to Map* heading. Once you've customized your map, you can position the mPower PRO in the appropriate location.



For additional details on the mFi Controller software, please refer to the mFi User Guide available on our website at: **documentation.ubnt.com/mfi**

Specifications

mPower PRO	
Dimensions	250.37 x 116.7 x 42 mm
Weight	754.4 g
Mounting	Wall (Kit Included)
Power	110-125VAC, 50-60 Hz, 15 A Per Outlet, 15 A Total
Outlets	8
Networking Interface	(1) 10/100 Ethernet Port
Wi-Fi Standards	802.11b/g/n
Memory	16 MB RAM, 8 MB Flash
LEDs	1 LED (Status)
Operating Temperature	0 to 40° C
Humidity	95% RH Max.

Safety Notices

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



WARNING: Use only in a dry location.



WARNING: Do not plug in to another relocatable power tap.



WARNING: To reduce the risk of electric shock, use only indoors.

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's power cord has an integral safety ground wire intended for connection to a grounded safety outlet.
 - a. 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. Building installation shall provide appropriate short-circuit backup protection.

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 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 or impaired as a result of using third party firmware; or
- (VI) has no original Ubiquiti MAC label, or is missing any other original Ubiquiti label(s).

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**.

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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 Ubiquiti Networks, Inc. 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 interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Warning

The transceiver described here emits radio frequency energy. Although the power level is low, the concentrated energy from a directional antenna may pose a health hazard. Do not allow people to come closer than 20 cm to the antenna when the transmitter is operating.

Additional information on RF exposure is available on the Internet at **www.fcc.gov/oet/info/documents/bulletins**

L'émetteur-récepteur décrit ici émet de l'énergie de fréquence radio. Bien que le niveau de puissance est faible, l'énergie concentrée à partir d'une antenne directionnelle peut présenter un danger pour la santé. Ne pas permettre aux gens de se rapprocher de 20 cm à l'antenne lorsque l'émetteur est en marche.

Des renseignements supplémentaires sur l'exposition aux RF est disponible sur Internet à **www.fcc.gov/oet/info/documents/bulletins**

Industry Canada

This device complies with Industry 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.

Le présent appareil est conforme aux CNR d'Industrie 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, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. 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 necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

TOUGHSwitch™ PoE

The Advanced Gigabit PoE Managed Switch from Ubiquiti Networks

Power your Ubiquiti devices with TOUGHSwitch™ PoE. TOUGHSwitch PoE delivers reliable power and fast Gigabit connectivity to devices that support passive Power over Ethernet.



Simplify Your Deployment

TOUGHSwitch PoE deployments increase efficiency and greatly reduce the number of potential failure points, resulting in faster installations and less maintenance and troubleshooting. TOUGHSwitch PoE allows network architects to design cleaner, less cluttered deployments.



Before TOUGHSwitch PoE



After TOUGHSwitch PoE

Available Models



TS-5-POE
5 Gigabit Ports, 24V PoE



TS-5-PRO
8 Gigabit Ports, 24V or 48V PoE



TS-16-CARRIER
16 Gigabit Ports, 24V or 48V PoE, Rack-Mountable



Ubiquiti Networks offers a variety of products for the mFi platform. For additional details, visit www.ubnt.com/mfi



Ceiling Mount
Motion Sensor
mFi-MSC



Wall Mount
Motion Sensor
mFi-MSW



Temperature
Sensor
mFi-THS



Current Sensor
mFi-CS



Door Sensor
mFi-DS



Thermostat
Coming Soon!



mPort
mPort



mPort Serial
mPort-S



Power Adapter
mPower mini



Power Strip
mPower

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