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Ubiquiti Networks UAP-LR UniFi Enterprise Wi-Fi System

Ubiquiti Networks UAP-LR UniFi Enterprise Wi-Fi System User Guide

Contents

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Introduction

Thank you for purchasing the Ubiquiti Networks™ UniFi™ Enterprise WiFi System. The UniFi Enterprise WiFi System includes the UniFi Controller software, which allows you to manage your wireless network using a web browser. The UniFi Controller software and User Guide are available for download at downloads.ubnt.com/unifi. This Quick Start Guide includes the warranty terms and is for use with the UniFi AP, model UAP, and the UniFi AP Long Range, model UAP-LR. This Quick Start Guide will refer to both models as the UniFi AP. The UniFi AP can be powered by the included PoE Adapter or a Ubiquiti Networks TOUGHSwitch™.

Package Contents

TERMS OF USE: All Ethernet cabling runs must use CAT5 (or above). It is the customer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, indoor cabling requirements, and Dynamic Frequency Selection (DFS) requirements.

System Requirements

- Microsoft 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)

Network Topology Requirements

- A DHCP-enabled network (for the AP to obtain an IP address as well as for the wireless clients after deployment)
- A management station computer running the UniFi Controller software, located either onsite and connected to the same Layer-2 network, or off-site in a cloud or NOC
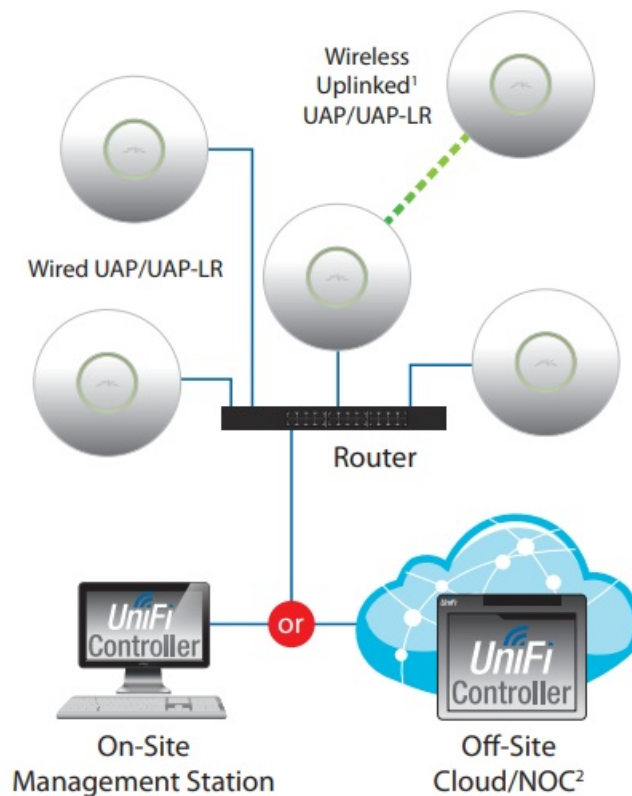
Sample Network Diagram

1. To set up wireless-linked APs, refer to the User Guide on the website: **documentation.ubnt.com/unifi**.
2. All UniFi APs support off-site management controllers. See the User Guide for setup details.
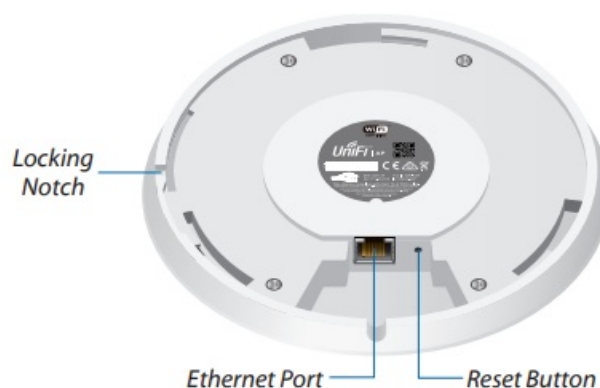
Hardware Overview

LED

LED Color	Status
Flashing Amber	Initializing.
Steady Amber	Factory default, waiting to be integrated.
Alternating Amber/Green	Device is busy; do not touch or unplug it. This usually indicates that a process such as a firmware upgrade is taking place.
Quickly Flashing Green	This is used to locate an AP.

When you click **Locate** in the UniFi Controller software, the AP will flash. It will also display the location of the AP on the map. |
| Steady Green | Indicates the device has been successfully integrated into a network and is working properly. |
| Steady Green with occasional flashing | Indicates the device is in an isolated state (all WLANs are brought down until an uplink is found). |

Ports

Ethernet The Ethernet port is used to connect the power and should be connected to the LAN and DHCP server. Power can be provided by either of the following:

- Included PoE Adapter
- Ubiquiti Networks TOUGHSwitch PRO, model TS-8-PRO Reset The Reset button serves two functions for the UniFi AP:
- Restart Press and release the Reset button quickly.

- Restore to Factory Default Settings Press and hold the Reset button for more then five seconds
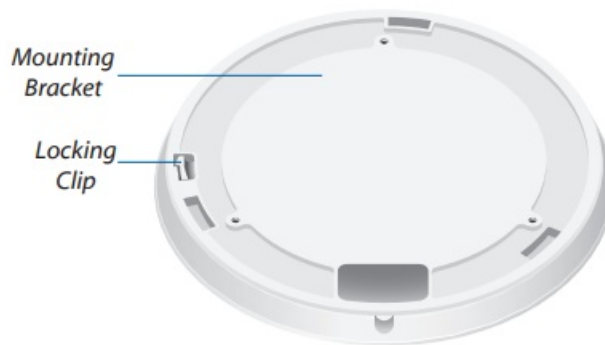
Locking Clip During installation, the Locking Clip on the Mounting Bracket locks into the Locking Notch on the UniFi AP to help prevent theft.

Installation Requirements

- CAT5/6 cable
- Phillips screwdriver
- Drill and drill bit (6 mm for wall-mounting or 3 mm for ceiling-mounting)
- Optional: Drywall or keyhole saw (to cut 25 mm hole for Ethernet cable feed)

Hardware Installation
The UniFi AP can be mounted to the wall or ceiling. Perform the steps for the appropriate installation:

Wall Mount

1. Position the Mounting Bracket at the desired location on the wall with the cable feed slot pointed towards the floor.
2. Use a pencil to mark the three holes on the wall. Use a 6 mm drill bit to drill the holes.
3. If your Ethernet cable feeds through the wall, then cut or drill a circle approximately 25 mm in diameter, just below the bottom center of the Mounting Bracket (as shown above). Then feed the CAT5/6 cable through the hole.

Optional 25 mm Hole for
Ethernet Cable Feed through Wall

4. Insert the M3x20 Screw Anchors into the 6 mm holes. Secure the Mounting Bracket to the wall by inserting the
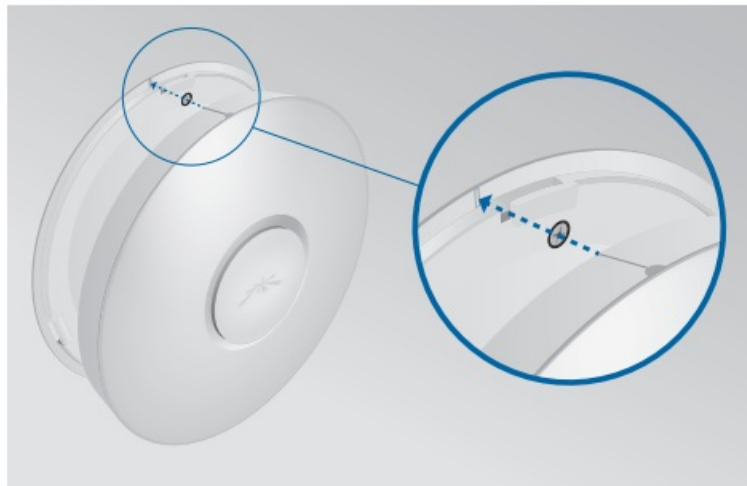
M2.9×20 Screws into the anchors.
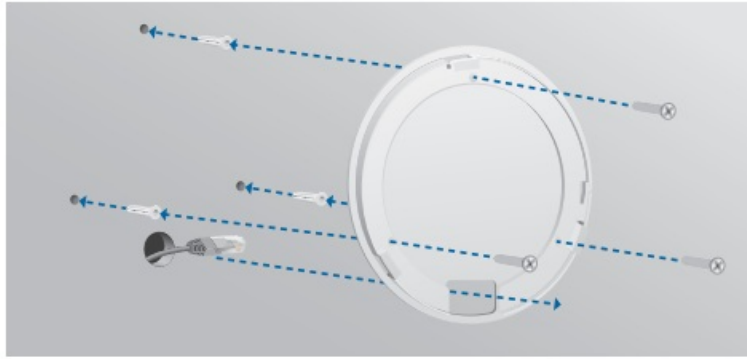
5. Connect the Ethernet cable to the Ethernet port.

6. Align the notch on the UniFi AP with the notch on the Mounting Bracket.
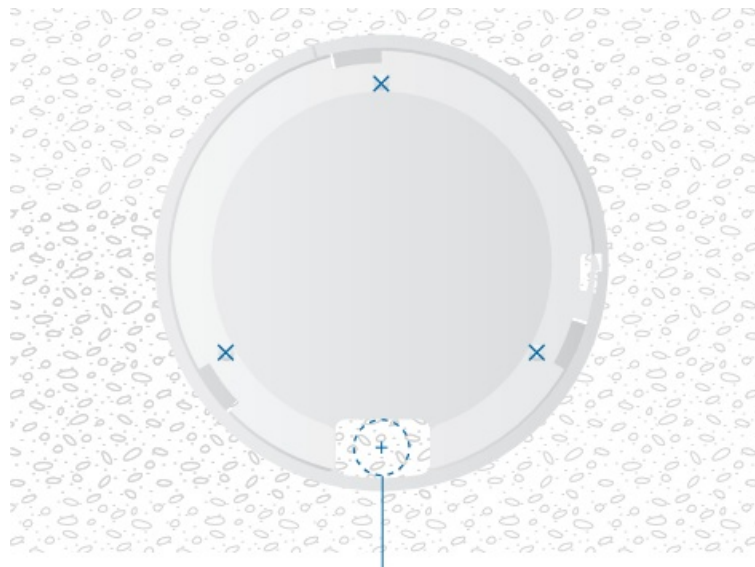

7. Turn the UniFi AP clockwise until it locks into place.

Ceiling Mount

1. Remove the ceiling tile.
2. Place the Mounting Bracket in the center of the ceiling tile.

   Mark the three mounting screw holes and 25 mm hole for the Ethernet cable.

25 mm Hole for Ethernet Cable Feed

3. Use a 3 mm drill bit to drill the screw holes, and cut or drill the 25 mm hole for the Ethernet cable feed.
4. Secure the Mounting Bracket to the ceiling tile using the Ceiling Backing Plate, M3x50 Flathead Screws, and M3 Keps Nuts. Then feed the Ethernet cable through the 25 mm hole.

5. Set the ceiling tile back into place.

6. Connect the Ethernet cable to the Ethernet port.

7. Align the notch on the UniFi AP with the notch on the Mounting Bracket.

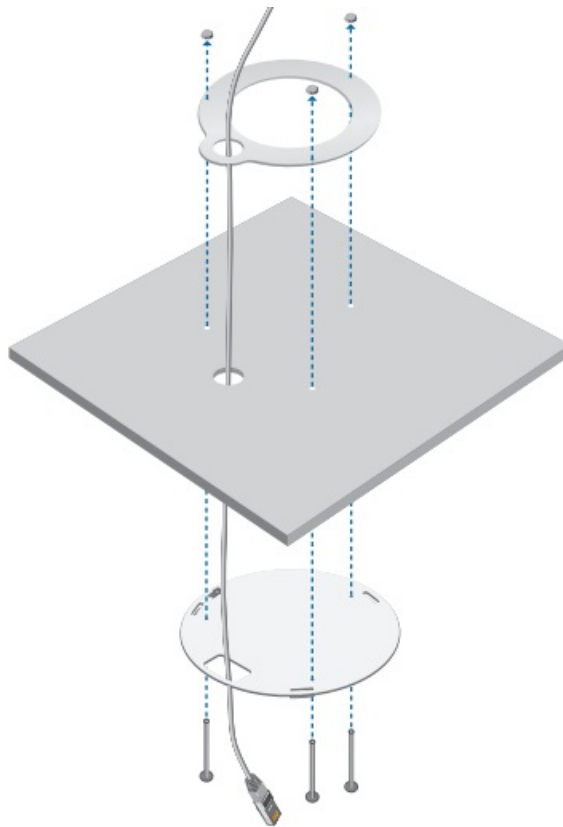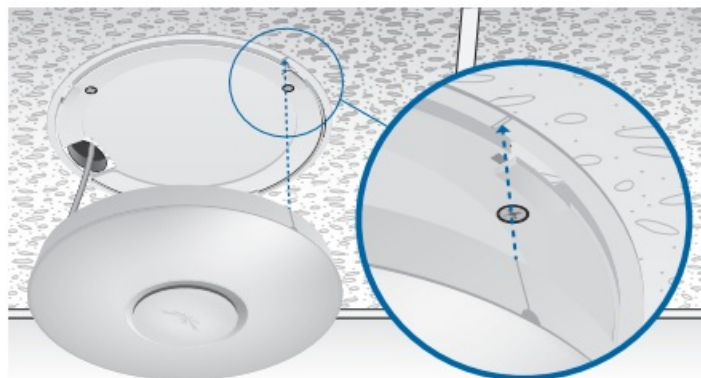8. Turn the UniFi AP clockwise until it locks into place.

Powering the UniFi AP

The UniFi AP can be powered directly by a Ubiquiti Networks TOUGHSwitch or with the included PoE Adapter.

Connecting to the TOUGHSwitch

Connect the other end of the Ethernet cable coming from the Ethernet port on the UniFi AP directly to a PoE port on the Ubiquiti Networks TOUGHSwitch.
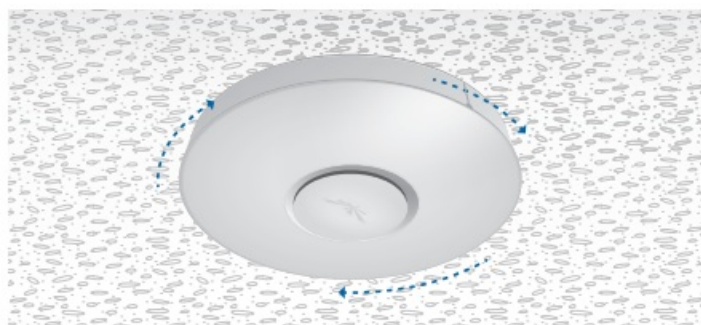

TOUGHSwitch PRO Power Connection Diagram

**Connecting Power over Ethernet**

1. Connect the other end of the Ethernet cable coming from the Ethernet port on the UniFi AP to the Ethernet port labeled POE on the PoE Adapter.

2. Connect an Ethernet cable from your LAN to the Ethernet port labeled LAN on the PoE Adapter.

3. Connect the Power Cord to the power port on the PoE Adapter. Connect the other end of the Power Cord to a power outlet.
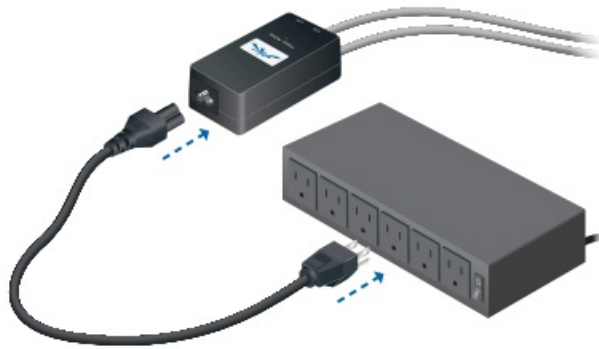
Software Installation

Download and install the latest version of the UniFi Controller software at **downloads.ubnt.com/unifi**. Launch the software and follow the on-screen instructions. Step-by-step instructions are available in the User Guide located on our website: **documentation.ubnt.com/unifi**

After you have installed the software and run the UniFi Installation Wizard, a login screen will appear for the UniFi Controller management interface. Enter the Admin Name and Password that you created and click Login.

You can manage your wireless network and view network statistics using the UniFi Controller management interface.

For information on configuring and using the UniFi Controller software, refer to the User Guide.

Specifications

LED Color	Status
Flashing Amber	Initializing.
Steady Amber	Factory default, waiting to be integrated.
Alternating Amber/Green	Device is busy; do not touch or unplug it. This usually indicates that a process such as a firmware upgrade is taking place.
Quickly Flashing Green	This is used to locate an AP. When you click **Locate** in the UniFi Controller software, the AP will flash. It will also display the location of the AP on the map.
Steady Green	Indicates the device has been successfully integrated into a network and is working properly.
Steady Green with occasional flashing	Indicates the device is in an isolated state (all WLANs are brought down until an uplink is found).

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.
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.
   - 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.
   - 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.
   - Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
   - Protective earthing is provided by Listed AC adapter. 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: 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;

1. has been painted, rebranded or physically modified in any way;
2. has been damaged due to errors or defects in cabling;
3. has been subjected to misuse, abuse, negligence, abnormal

4. physical, electromagnetic or electrical stress, including lightning strikes, or accident;

5. has been damaged or impaired as a result of using third party firmware;

6. has no original Ubiquiti MAC label, or is missing any other original Ubiquiti label(s); or

7. 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 CATS (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 UBIQUIT! 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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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.

FCC Compliance

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.

NOTE: 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.

For MPE and antenna usage details, please visit our website at **www.ubnt.com/products**

Industry Canada
This Class A digital apparatus complies with Canadian ICES-003.
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 permitted for successful communication.
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.

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.

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

ROHS/WEEE Compliance Statement

European Directive 2002/96/EC 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.

Declaration of Conformity

Hereby, UBIQUITI NETWORKS, declares that this UBIQUITI NETWORKS device, is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Online Resources
Support **support.ubnt.com**
Community **community.ubnt.com**
Downloads **downloads.ubnt.com**

Documents / Resources

Ubiquiti Networks UAP-LR UniFi Enterprise Wi-Fi System [pdf] User Guide
UAP-LR UniFi Enterprise Wi-Fi System, UAP-LR, UniFi Enterprise Wi-Fi System, Enterprise Wi-Fi System, Wi-Fi System, System

References

- **User Manual**