



# airFiber 60 LR

60 GHz point-to-point (PtP) radio system with a 1.9 Gbps maximum throughput rate and a 12+ kilometer link range.

The airFiber 60 GHz Long-range Radio (AF60 LR) is a PtP system that uses Wave Technology to establish long-distance, true-duplex Gigabit links. Equipped with a high-gain dish antenna, the AF60 LR can reach a 1.9 Gbps maximum throughput rate and sustain its links over 12 km. It also has a dedicated Bluetooth management radio so it can be set up quickly and fully configured with the UISP® application (web/mobile). It can also be seamlessly integrated into an existing deployment with Ubiquiti's dedicated link planning platform and tracked from anywhere with its built-in GPS antenna.



## Mechanical

|                     |   |
|---------------------|---|
| Dimensions          | Ø413 x 360 mm (Ø16.3 x 14.2")   |
| Weight              | Without mount: 1.5 kg (3.3 lb)<br>With mount: 2.7 kg (6 lb)                     |
| Enclosure materials | Aluminum, UV stabilized polycarbonate   |
| Mount material      | Galvanized steel  |
| Mounting            | Precision Alignment Kit (included)<br>Pole compatibility: Ø25.4-76.2 mm (Ø1-3") |
| Wind loading        | 420 N at 200 km/h (94.4 lbf at 125 mph)   |

## Hardware

|                         |   |
|-------------------------|---|
| Processor               | Quad-Core ARM® Cortex® A7   |
| Memory                  | 256 MB DDR3   |
| Networking interface    | GbE RJ45 port   |
| RF connections          | Internal  |
| Max. power consumption  | 18W   |
| Power method            | Passive PoE 4-pairs (1, 2+; 3, 6-) (4, 5+; 7, 8-) or 2-pairs (4, 5+; 7, 8-) |
| Power supply            | 48VDC, 0.65A gigabit PoE adapter (included)                                 |
| Supported voltage range | 48VDC ± 10%   |
| ESD/EMP protection      | Air/contact: ± 24kV   |
| Operating temperature   | -40 to 60° C (-40 to 140° F)  |
| Operating humidity      | 5 to 95% noncondensing  |
| Certifications          | FCC, IC, CE   |

## LEDs

|          |  |
|----------|--|
| Power    | Flashing white: bootup in progress<br>White: not connected to UISP™ console<br>Blue: connected to UISP console |
| Ethernet | Flashing blue: ethernet activity   |
| GPS      | Blue: receiving at least (4) GPS satellite signals   |
| 60G      | Blue: active connection  |



## Software

|                               |   |
|-------------------------------|---|
| OS                            | airOS®  |
| Operating mode                | PtP only  |
| Ubiquiti specific features    | Integrated 60 GHz radio, discovery protocol, Wave technology        |
| Network                       | Bridge mode   |
| Services                      | UISP, ping watchdog, NTP client, device discovery                   |
| Tools                         | Antenna alignment, discovery utility, ping, trace route, speed test |
| Software management           | Bluetooth management for easy setup over UISP app<br>WEB UI         |
| Minimum software requirements | Any modern WEB browser/iOS or Android based smartphone              |

## System

|                    |                |
|--------------------|----------------|
| Maximum throughput | 1.95 Gbps      |
| Maximum range      | 12+ km         |
| Encryption         | WPA2-PSK (AES) |

## RF

|                      |  |
|----------------------|--|
| Operating Frequency* | 57~71 GHz<br><small>*Depends on regulatory region.</small> |
| GPS                  | Yes  |
| Channel Bandwidth    | 2160, 1080 MHz   |



Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at [www.ui.com/support/warranty](http://www.ui.com/support/warranty)

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