# Tech Specs

## airFiber 60 Xtreme-Range

| Datasheet | Installation Guide | Marketing Images |
|---|---|---|



60 GHz PtP bridge* · 15+ km link range · 383 mm · 779 mm · 664 mm · Weatherproof IPX6 rate

Precision alignment mount Ø40 to 80 mm pole compatible · 5 GHz 800+ Mbps weather resilient backup radio · Integrated GPS & Bluetooth · 5.4 Gbps max. throughput (2.7 Gbps duplex) · Status LEDs · GbE, PoE in RJ45 port** · 10G SFP+ port · Reset button
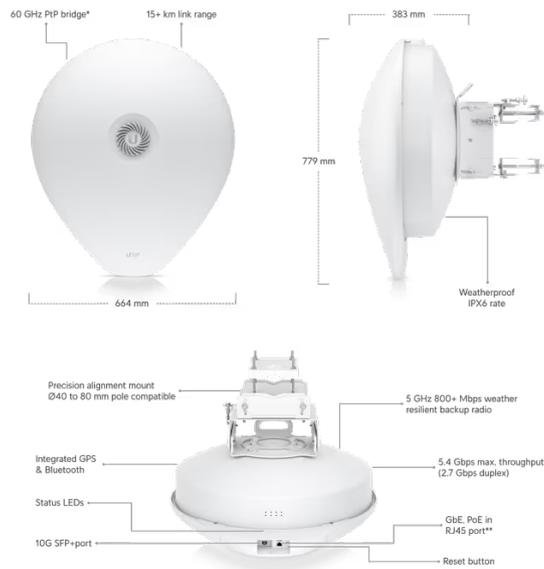
*airFiber is normally purchased in pairs to form a single link.
**48V DC, 0.65A GbE PoE adapter included.

## Mechanical

| | |
|---|---|
| **Dimensions** | 779 x 664 x 383 mm (30.7 x 26.1 x 15.1") |
| **Weight** | Without mount: 8.6 kg (19 lb)<br>With mount: 13 kg (28.7 lb) |
| **Enclosure materials** | UV stabilized polycarbonate, steel |
| **Mount material** | Galvanized steel |
| **Mounting** | Precision alignment kit (included)<br>Pole compatibility: Ø40 to 80 mm (Ø1.5 to 3.15") on pipe outer diameter |
| **Wind loading** | 422 N at 200 km/h (94.86 lbf at 125 mph) |
| **Weatherproofing** | IPX6 |

## Hardware

| | |
|---|---|
| **Processor** | Quad-core ARM® Cortex®-A53 at 1.4 GHz |
| **Memory** | DDR3L1 GB |
| **Networking interface** | (1) GbE RJ45 port<br>(1) 1/10G SFP+ port |
| **Max. power consumption** | 24W |
| **Power method** | Passive PoE 4-pairs (1, 2+; 3, 6-) (4, 5+; 7, 8-)<br>Passive PoE 2-pairs (4, 5+; 7, 8-), for 44-54V DC only |
| **Power supply** | 48V DC, 0.65A gigabit PoE adapter (included) |

| | |
|---|---|
| Supported voltage range | 44–54V DC |
| | 22–27V DC |
| GPS | Yes |
| RF connections | Internal |
| Button | Factory reset |
| Operating temperature | -40 to 55° C (-40 to 131° F) |
| Operating humidity | 5 to 95% noncondensing |
| Certifications | FCC, IC, CE |

## Software

| | |
|---|---|
| Operating mode | PtP only |
| Ubiquiti specific features | Integrated 60 GHz radio, discovery protocol, Wave technology |
| Services | UISP, ping watchdog, NTP client, device discovery |
| Tools | Antenna alignment, discovery utility, ping, trace route, speed test |
| Network | Bridge mode |
| Management application | UISP web: Version 1.4.3 and later |
| | UISP iOS™: Version 2.20 and later |
| | UISP Android™: Version 2.21.5 and later |

## System

| | |
|---|---|
| Max. throughput | 2.7 Gbps |
| Max. range | 15+ km |
| Encryption | WPA2-PSK (AES) |

## RF

| | |
|---|---|
| Operating frequency* | 57–71 Ghz |
| | * Depends on regulatory region. |
| Channel bandwidth | 2160, 1080 MHz |
| Operating channels* | 58320, 59400, 60480, 61560, 62640, 63720, 64800, 65880, 66960, 68040, 69120 MHz |
| | * Depends on regulatory region. |
| Management radio | 2400–2483.5 MHz |
| Modulation | 16QAM, BPSK, QPSK |
| Polarization | Vertically linear |
| Beamwidth | Azimuth: 3 dB 1.4° |
| | Elevation: 3 dB 1.4° |
| Electrical downtilt | 0° |

## Back-Up RF

| | |
|---|---|
| Operating frequency* US/CA | U-NII-1 5150 - 5250 MHz |
| | U-NII-2A 5250 - 5350 MHz |
| | U-NII-2C 5470 - 5725 MHz |
| | U-NII-3 5725 - 5850 MHz |
| Worldwide | 5150 - 5875 MHz |
| | *Depends on regulatory region. |
| Channel bandwidth | 20, 40, 80 MHz |
| Modulation | BPSK (½), QPSK (½), QPSK (¾), 16QAM (½), 16QAM (¾), 64QAM (2/3), 64QAM (¾), 64QAM (5/6), 256QAM (¾), 256QAM (5/6) |
| Antenna gain | 26 dBi |
| Polarization | Dual-linear |
| Beamwidth | Azimuth: 3 dB 5° |
| | Elevation: 3 dB 5° |
| Cross-pol isolation | 14 dB |

| Electrical downtilt | 0° |
| --- | --- |

## LEDs

| Power | Flashing white: bootup in progress<br>White: not connected to UISP application<br>Blue: connected to UISP application |
| --- | --- |
| Ethernet | Flashing blue: Ethernet activity |
| GPS | Blue: receiving at least (4) GPS satellite signals |
| Link | Blue: 5GHz link<br>Blue: 60GHz link |

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