

## airFiber 60 XR



## 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                 | DDR3L 1GB                                                                   |
| 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-) or 2-pairs (4, 5+; 7, 8-) |
| Power supply           | 48VDC, 0.65A gigabit PoE adapter (included)                                 |
| RF connections         | Internal                                                                    |
| Button                 | Factory reset                                                               |
| LEDs                   | Power, Ethernet, GPS, link                                                  |
| Operating temperature  | -40 to 55° C (-40 to 131° F)                                                |
| Operating humidity     | 5 to 95% noncondensing                                                      |
| Certifications         | FCC, IC, CE                                                                 |

## Software

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| OS                            | airOS®                                                              |
| 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                                                         |
| 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 | 2.5+ Gbps      |
| Maximum range      | 15+ km         |
| Encryption         | WPA2-PSK (AES) |

## RF

|                      |                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Operating frequency* | 57 to 71 GHz*<br><small>*Depends on regulatory region.</small>                                                                   |
| Channel bandwidth    | 2160, 1080 MHz                                                                                                                   |
| Operating channels*  | 58320, 59400, 60480, 61560, 62640, 63720, 64800, 65880, 66960, 68040, 69120 MHz<br><small>*Depends on regulatory region.</small> |
| Modulation           | 16QAM, BPSK, QPSK                                                                                                                |
| Beamwidth            | Azimuth: $\pm 1^\circ$<br>Elevation: $\pm 1^\circ$                                                                               |
| Management radio     | 2400 to 2483.5 MHz                                                                                                               |
| Electrical downtilt  | 0°                                                                                                                               |

## Back-Up RF

|                                               |                                                                                                                                                                                                                     |         |                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|
| Operating frequency*                          | US/CA                                                                                                                                                                                                               | U-NII-1 | 5150 - 5250 MHz |
|                                               |                                                                                                                                                                                                                     | U-NII-3 | 5725 - 5850 MHz |
|                                               | Worldwide                                                                                                                                                                                                           |         | 5150 - 5875 MHz |
| <small>*Depends on regulatory region.</small> |                                                                                                                                                                                                                     |         |                 |
| Channel bandwidth                             | 20, 40, 80 MHz                                                                                                                                                                                                      |         |                 |
| Modulation                                    | BPSK ( $\frac{1}{2}$ ), QPSK ( $\frac{1}{2}$ ), QPSK ( $\frac{3}{4}$ ), 16QAM ( $\frac{1}{2}$ ), 16QAM ( $\frac{3}{4}$ ), 64QAM (2/3), 64QAM ( $\frac{3}{4}$ ), 64QAM (5/6), 256QAM ( $\frac{3}{4}$ ), 256QAM (5/6) |         |                 |
| Antenna gain                                  | 26 dBi                                                                                                                                                                                                              |         |                 |
| Beamwidth                                     | Azimuth: $\pm 7^\circ$<br>Elevation: $\pm 7^\circ$                                                                                                                                                                  |         |                 |
| 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 traffic detected                                                                              |
| GPS      | Blue: receiving at least (4) GPS satellite signals                                                                    |
| Link     | Blue: 5GHz link<br>Blue: 60GHz link                                                                                   |



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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