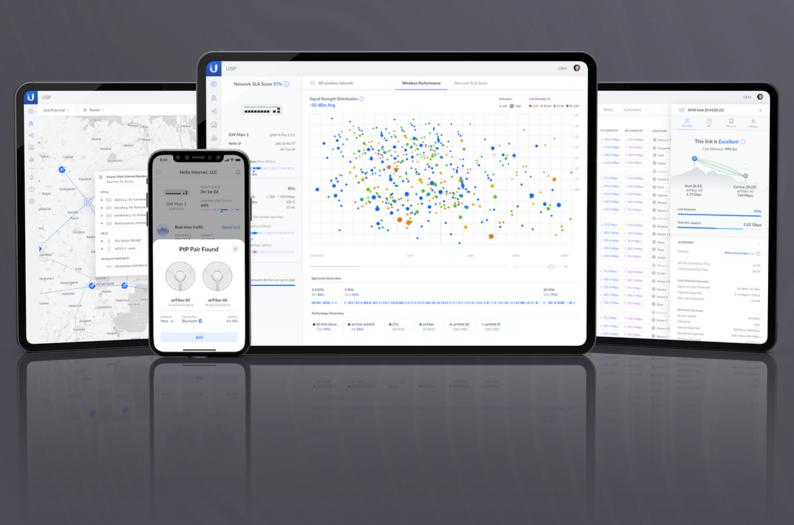
# UISP



# airFiber 60 XR

Multi-gigabit, 60 GHz bridge with SFP+ support and a 15+ km link range.

The airFiber® 60 XR (AF60 XR) is a 60 GHz radio designed to facilitate 2.5+ Gbps connectivity over very long distances. The AF60 XR features an integrated, high-gain dish antenna that establishes high-speed, point-to-point (PtP) links. It utilizes Wave Technology to deliver incredible, long-range performance within the 60 GHz spectrum. Additionally, the AF60 XR has a built-in 5 GHz failover radio for operational redundancy as well as a Bluetooth management radio to simplify setup and configuration.



#### Mechanical

Dimensions	779 x 664 x 383 mm (30.68 x 26.14 x 15.06")		
Weight	Without mount: 8.6 kg (19 lb) With mount: 13 kg (28.7 lb)		
Enclosure material	UV stabilized polycarbonate, steel		
Mount Material	Galvanized steel		
Mounting	Precision Alignment Kit (included) Pole compatibility: Ø40-80 mm (Ø1.5-3.15")		
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	1 GB DDR3L		
Networking interface	(1) GbE RJ45 port (1) 1/10G SFP+port		
Button	Factory reset		
RF connections	Internal		
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)		
Supported voltage range	48V ±10%		
Operating temperature	-40 to 55° C (-40 to 131° F)		
Operating humidity	5 - 95% noncondensing		
Certifications	FCC, IC, CE		

## **LEDs**

Power	Flashing white: bootup in progress White: not connected to UISP™ console Blue: connected to UISP console	
Ethernet	Flashing blue: ethernet activity	
GPS	Blue: receiving at least (4) GPS satellite signals	
60G	Blue: active connection	
5G	Blue: active connection	



#### Software

OS	airOS <sup>®</sup>		
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 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*	57~71 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.		
Modulation	16QAM, BPSK, QPSK		
Beamwidth	Azimuth: ± 1° Elevation: ± 1°		
Management radio	2400 - 2483.5 MHz		
Electrical downtilt	0°		

# Back-Up RF

Operating frequency*	US/CA	U-NII-1	U-NII-1 5150 - 5250 MHz		
		U-NII-3	5725 - 5850 MHz		
	Worldwide		5150 - 5875 MHz		
	*Depends on regulatory region.	*Depends on regulatory region.			
Channel bandwidth	20, 40, 80 MHz	20, 40, 80 MHz			
Modulation	BPSK (½), QPSK (½), C 256QAM (5/6)	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	26 dBi			
Beamwidth	Azimuth: ± 7°	Azimuth: ± 7°			
	Elevation: ± 7°	Elevation: ± 7°			
Cross-pol isolation	14 dB				
Electrical downtilt	0°				

