UISP airFiber 60 XR

Datasheet
AF60-XR

airFiber 60 XR



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Mechanical

Dimensions	779 x 664 x 383 mm (30.7 x 26.1 x 15.1")
Weight	Without mount: 8.6 kg (19 lb) With mount: 13 kg (28.7 lb)
Enclosure materials	UV stabilized polycarbonate, steel
Mount material	Galvanized steel
Mounting	Precision alignment kit (included) 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 (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 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* *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 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

*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
Beamwidth	Azimuth: ± 7° Elevation: ± 7°
Cross-pol isolation	14 dB
Electrical downtilt	0°

LEDs

Power	Flashing white: bootup in progress White: not connected to UISP application Blue: connected to UISP application
Ethernet	Flashing blue: Ethernet traffic detected
GPS	Blue: receiving at least (4) GPS satellite signals
Link	Blue: 5GHz link Blue: 60GHz link

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