

Ubiquiti Wave Long-Range Technical Specifications

Mechanical

Dimensions	Ø424.4 x 166.2 mm (Ø16.7 x 6.5")
Weight Without mount:	2.59 kg (5.7 lb); With mount: 3.79 kg (8.4 lb)
Enclosure material	UV stabilized plastic
Mount material	Stainless steel
Pole mount diameter	25 to 76.2 mm (1 to 3") on pipe outer diameter
Wind loading	286 N at 200 km/h (64.3 lbf at 125 mph)
Weatherproofing	IPX6

Hardware

Processor	Dual ARM® Cortex®-A53 cores at 1 GHz
Memory	DDR3L 512 MB
Networking interface	(1) GbE RJ45 port
Max. power consumption	18W
Power method	48V DC passive PoE 4-pairs (1, 2+; 3, 6-) (4,5+; 7, 8-) or 2-pairs (4, 5+; 7, 8-) 24V DC passive PoE 4-pairs (1, 2+; 3, 6-) (4, 5+; 7, 8-)
Power supply	48V DC, 0.65A gigabit PoE adapter (included). Can be powered by a UISP Router or UISP Switch
GPS	Yes
Button	Factory reset
LEDs	Power, Ethernet, GPS, link
Operating temperature	-40 to 60° C (-40 to 140° F)
Operating humidity	5 to 95% noncondensing
Certifications	FCC, IC, CE

Software

Operating mode	PtMP station
Ubiquiti specific features	Wave AI, discovery protocol

Services UISP, ping watchdog, NTP client, SNMP
Tools Antenna alignment, discovery utility, ping, trace route, speed test
Network Bridge/Router mode
Application requirements UISP: Version 1.4.5 and later

System

Total throughput 2 Gbps (1 Gbps duplex)
Maximum range 8+ 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, 70200 MHz *Depends on regulatory region.
Modulation 16QAM, QPSK
Antenna gain 46 dBi
Azimuth and elevation beamwidth 3 dB: 0.8°, 6 dB: 1.1°

Back-Up RF

WiFi standard 802.11ax (WiFi 6)
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 (1/2), QPSK (1/2), QPSK (3/4), 16QAM (1/2), 16QAM (3/4), 64QAM (2/3), 64QAM (3/4), 64QAM (5/6), 256QAM (3/4), 256QAM (5/6), 1024QAM (3/4), 1024QAM (5/6)
Antenna gain 22 dBi
Polarization Dual-linear
Cross-pol isolation 20 dB

Azimuth and elevation beamwidth 3 dB: 8 to 10°

LEDs

Power Flashing white: bootup in progress

White: not connected to UISP application

Blue: connected to UISP application

Flashing blue: locate in progress

Blue/white: firmware upgrade in progress

Ethernet Flashing blue: Ethernet traffic detected

GPS Blue: receiving at least (4) GPS satellite signal

Links White: 5GHz link

Blue: 60GHz link