

Wave AP Micro



Mechanical

Dimensions	284 x 156 x 76 mm (11.2 x 6.1 x 3")
Weight	1.3 kg (2.87 lb)
Enclosure materials	Aluminum alloy, UV stabilized polycarbonate
Mount material	Stainless steel, UV stabilized polycarbonate
Pole mount diameter	35 to 60 mm (1.4 to 2.4") on pipe outer diameter
Wind loading	87 N at 200 km/h (20 lbf at 125 mph)
Weatherproofing	IPX6

Hardware

Processor	Quad-core ARM® Cortex®-A53 at 1.4 GHz
Memory	DDR3L 512 MB
Networking interface	(1) 2.5 GbE RJ45 port (100/1000/2500)
Max. power consumption	24W
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, 2.5 GbE PoE adapter (included)
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

OS	airOS®
Operating mode	PtMP access point
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 mode
Software management	Bluetooth management for easy setup over UISP Mobile app WEB UI
Minimum software requirements	Any modern web browser/iOS™ or Android™ based smartphone

System

Total throughput	5 Gbps (2.5 Gbps duplex)
Supported clients count	15



Range	Connecting to a Wave Long-Range: up to 6 km Connecting to a Wave Nano: up to 4 km
Encryption	WPA2-PSK (AES)

RF

Operating frequency*	57 to 71 GHz <small>*Depends on regulatory region.</small>
Channel bandwidth	2160, 1080 MHz
Operating channels*	58320, 59400, 60480, 61560, 62640, 63720, 64800, 65880, 66960, 68040, 69120, 70200 MHz <small>*Depends on regulatory region.</small>
Modulation	16QAM, QPSK
Antenna gain	20 dBi
Polarization	Linear
Beamwidth	Azimuth: 3dB 90° Elevation: 3dB 7°, 6dB 12°
Electrical downtilt	0°

Back-Up RF

WiFi standard	802.11ax (WiFi 6)		
Operating frequency*	US/CA	U-NII-1 U-NII-3	5150 - 5250 MHz 5725 - 5850 MHz
	Worldwide	5150 - 5875 MHz	
	<small>*Depends on regulatory region.</small>		
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	13.5 dBi		
Polarization	Dual-linear		
Beamwidth	Azimuth: 6 dB 90° Elevation: 6 dB 25°		
Cross-pol isolation	10 dB		
Electric downtilt	0°		

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
Link	Blue: 60 GHz link White: 5 GHz link

