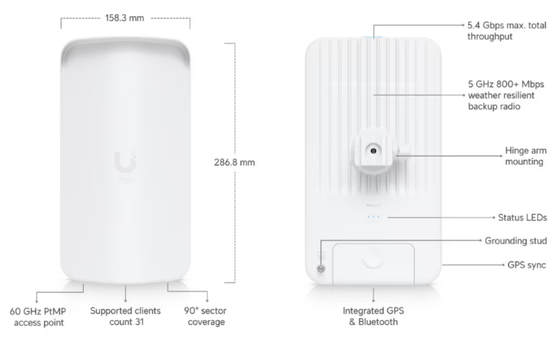
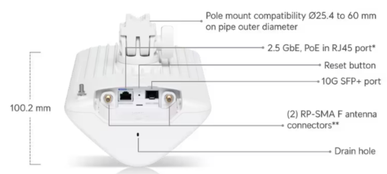
Wave AP Gen2

Wave-AP-Gen2

Datasheet | Marketing Images | Installation Guide





*48V DC, 0.65A 2.5 GbE PoE adapter included.
**For external 5 GHz antenna (optional).

Mechanical

Dimensions	158.3 x 286.8 x 100.2 mm (6.2 x 11.3 x 3.9")
Weight	1.5 kg (3.3 lb)
Enclosure material	UV stabilized polycarbonate, aluminum alloy
Pole mount diameter	25.4 to 60 mm (1 to 2.4") on pipe outer diameter
Wind loading	109.8 N at 200 km/h (25 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 (1) 10G SFP+ port
Max. power consumption	24W
Power method	Passive PoE 4-pairs (1, 2+; 3, 6-) (4, 5+; 7, 8-) Passive PoE 2-pairs (4, 5+; 7, 8-), for 44-54V DC only
Power supply	48V DC, 0.65A 2.5 GbE PoE adapter (Included)
Supported voltage range	44-54V DC 22-27V DC
GPS	Yes
Button	Factory reset
LEDs	Power, Ethernet, GPS
Ambient operating temperature	-40 to 60° C (-40 to 140° F)
Ambient operating humidity	5 to 95% noncondensing
Certifications	FCC, IC, CE

Software

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, cable test, site survey
Network	Bridge mode
Application requirements	UISP: Version 2.4.205 and later

System

Total throughput	5.4 Gbps
Supported clients count	31
Max. range	Connecting to a Wave Pro: up to 6 km Connecting to a Wave Long-Range: up to 6 km Connecting to a Wave Nano: up to 4 km Connecting to a Wave Pico: up to 0.9 km
Encryption	WPA2-PSK (AES)

RF

Operating frequency*	57-71 GHz *Depends on regulatory region.
Channel bandwidth	2160, 1080, 540 MHz
Operating channels*	58320, 59400, 60480, 61560, 62640, 63720, 64800, 65880, 66960, 68040, 69120, 70200, 70560 MHz *Depends on regulatory region.
Modulation	16QAM, QPSK
Antenna gain	20 dBi
Polarization	Vertically linear
Beamwidth	Azimuth: 3 dB 90° Elevation: 3 dB 7°
Electrical downtilt	0°

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	13 dBi
Cross-pol isolation	18 dB
Polarization	Dual-linear
Beamwidth	Azimuth: 6 dB 95° Elevation: 6 dB 25°
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 white: Ethernet traffic detected Flashing blue: SFP+ traffic detected
GPS	Blue: receiving at least (4) GPS satellite signal

Compliance Information