Tech Specs

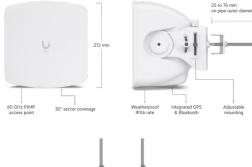UniFi Cloud Gateways   WiFi   Switching   Cloud Keys & Gateways   Camera Security   Door Access   Phone System   New Integrations   Accessories

Wave AP

| Datasheet | Installation Guide | Marketing Images |

205 mm

212 mm

60 GHz PtMP access point

30° sector coverage

187 mm

25 to 76 mm on pipe outer diameter

Weatherproof IPX6 rate

Integrated GPS & Bluetooth

Adjustable mounting

Pole mount

Status LEDs

10G SFP+ WAN port

2.5 GbE, PoE in RJ45 port*

15 client capacity

5.4 Gbps max. throughput (2.7 Gbps duplex)

Reset button

5 GHz 800+ Mbps weather resilient backup radio

*48V DC, 0.65A 2.5 GbE PoE adapter included.

Mechanical

Dimensions	212 x 205 x 187 mm (8.3 x 8.1 x 7.4")
Weight	2.3 kg (5.07 lb)
Enclosure materials	Aluminum alloy, UV stabilized polycarbonate
Pole mount diameter	25 to 76 mm (1 to 3") on pipe outer diameter
Wind loading	98 N at 200 km/h (22 lbf at 125 mph)
Weatherproofing	IPX6

Hardware

Processor	Quad-core ARM® Cortex®-A53 at 1.4 GHz
Memory	DDR3L 512 MB
Networking interface	(1) 2.5GbE RJ45 port (100/1000/2500)* (1) 10G SFP+ port (1/10) * Active only when SFP+ port is down.
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 2.5GbE PoE adapter (included)
Supported voltage range	44-54V DC 22-27V DC

GPS	Yes
Button	Factory reset
LEDs	Power, Ethernet, GPS
Operating temperature	-40 to 60° C (-40 to 140° F)
Operating humidity	5 to 95% noncondensing
Certifications	FCC, IC, CE

Software

Operating mode	PtMP access point
Ubiquiti specific features	Wave technology
Services	UISP, ping watchdog, NTP client, SNMP
Tools	Antenna alignment, discovery utility, ping, trace route, speed test
Network	Bridge mode
Application requirements	UISP: Version 1.5.7 and later

System

Total throughput	5.4 Gbps (2.7 Gbps duplex)
Supported clients count	15
Max. range	Connecting to a Wave Pro: up to 8 km Connecting to a Wave Long-Range: up to 8 km Connecting to a Wave Nano: up to 5 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, 70200 MHz *Depends on regulatory region.
Modulation	16QAM, QPSK
Antenna gain	24 dBi
Polarization	Vertically linear
Beamwidth	Azimuth: 3 dB 30° Elevation: 3 dB 3°
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	12 dBi
Cross-pol isolation	10 dB
Polarization	Dual-linear

Beamwidth	Azimuth: 3 dB 35° Elevation: 3 dB 60°
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

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