Ubiquiti Wave AP Technical Specifications

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 ARM® Cortex®-A53 cores 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 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 2.5GbE PoE adapter (included)

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

Range   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 to 71 GHz *Depends on regulatory region.

GPS   Yes

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: 30°

Elevation: 3 dB 3°, 6 dB 4°

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

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