

Tech Specs

UniFi UISP Branding

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

Wave Long-Range

Datasheet Installation Guide Marketing Images



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-core ARM® Cortex®-A53 at 1 GHz

 Memory
 DDR3L 512 MB

 Networking interface
 (1) GbE RJ45 port

Max. power consumption 20W

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 gigabit PoE adapter (included)

Can be powered by a UISP Router or UISP Switch

Supported voltage range 44-54V DC

22-27V DC

GPS Yes

Button Factory reset

LEDs Power, Ethernet, GPS, link

Operating temperature $$-40\ \text{to}\ 60^{\circ}\,\text{C}\ (-40\ \text{to}\ 140^{\circ}\,\text{F})$}$

Operating humidity 5 to 95% noncondensing

Certifications FCC, IC, CE

Software

Operating mode PtMP station, PtP*

*FW version 3.2.0 and later.

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

*Router is available in PtMP station mode only.

Application requirements UISP: Version 1.4.5 and later

System

Total throughput 2 Gbps (1 Gbps duplex)

Max. range 8+ 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 46 dBi

Polarization Vertically linear

Beamwidth Azimuth: 3 dB 1°
Elevation: 3 dB 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 gain22 dBiPolarizationDual-linearBeamwidthAzimuth: 3 dB 8°

Elevation: 3 dB 8°

Cross-pol isolation 20 dB

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

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