

Tech Specs

UniFi UISP

60 GHz Wireless

Wireless

Fiber

Wired

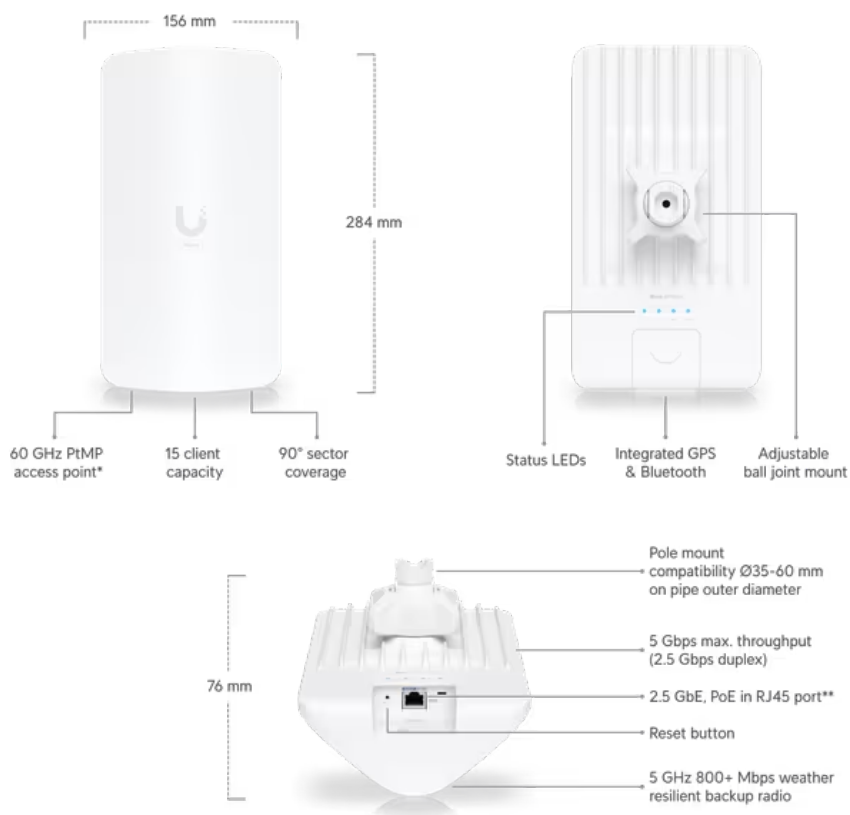
Accessory Tech

60 GHz Wireless / Wave AP Micro

Datasheet

Installation Guide

Marketing Images



*Compatible with Wave Long-Range (6 km) and Wave Nano (4 km).

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

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 materials	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) 1/2.5 GbE RJ45 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, Link
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
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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
Application requirements	UISP web: Version 2.2.11 and later UISP iOS™: Version 2.25.1 and later UISP Android™: Version 2.27.5 and later

System

Total throughput	5 Gbps (2.5 Gbps duplex)
Supported clients count	15
Max. 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*	57-71 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	Vertically linear
Beamwidth	Azimuth: 3 dB 90° Elevation: 3 dB 7°
Electrical downtilt	0°

Back-Up RF

WiFi standard	802.11ax (WiFi 6)
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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 <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

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