

# Tech Specs

UniFi UISP

60 GHz Wireless

Wireless

Fiber

Wired

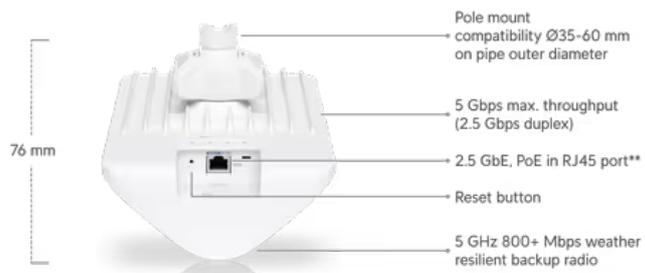
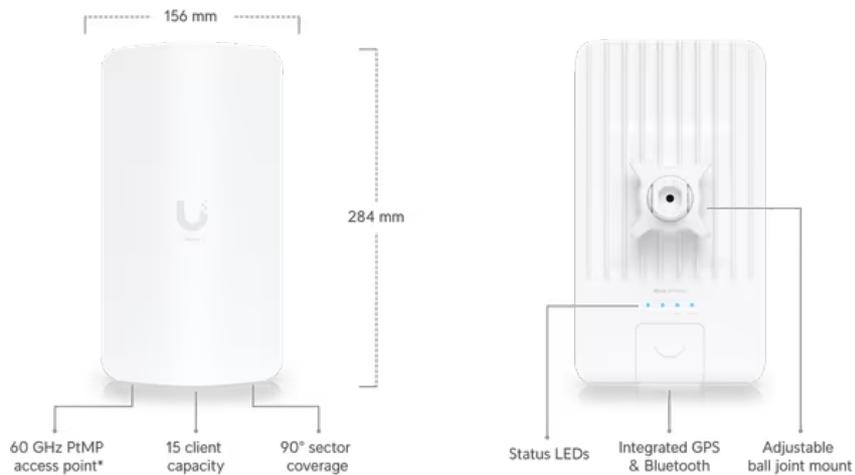
Accessory Tech

## 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

<b>Dimensions</b>	284 x 156 x 76 mm (11.2 x 6.1 x 3")
<b>Weight</b>	1.3 kg (2.87 lb)
<b>Enclosure materials</b>	Aluminum alloy, UV stabilized polycarbonate
<b>Mount materials</b>	Stainless steel, UV stabilized polycarbonate
<b>Pole mount diameter</b>	35 to 60 mm (1.4 to 2.4") on pipe outer diameter
<b>Wind loading</b>	87 N at 200 km/h (20 lbf at 125 mph)
<b>Weatherproofing</b>	IPX6

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## Hardware

<b>Processor</b>	Quad-core ARM® Cortex®-A53 at 1.4 GHz
<b>Memory</b>	DDR3L 512 MB
<b>Networking interface</b>	(1) 1/2.5 GbE RJ45 port
<b>Max. power consumption</b>	24W
<b>Power method</b>	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
<b>Power supply</b>	48V DC, 0.65A, 2.5 GbE PoE adapter (included)
<b>Supported voltage range</b>	44-54V DC 22-27V DC
<b>GPS</b>	Yes
<b>Button</b>	Factory reset
<b>LEDs</b>	Power, Ethernet, GPS, Link
<b>Operating temperature</b>	-40 to 60° C (-40 to 140° F)
<b>Operating humidity</b>	5 to 95% noncondensing
<b>Certifications</b>	FCC, IC, CE

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## Software

<b>Operating mode</b>	PtMP access point
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<b>Ubiquiti specific features</b>	Wave AI, discovery protocol
<b>Services</b>	UISP, ping watchdog, NTP client, SNMP
<b>Tools</b>	Antenna alignment, discovery utility, ping, trace route, speed test
<b>Network</b>	Bridge mode
<b>Application requirements</b>	UISP web: Version 2.2.11 and later UISP iOS™: Version 2.25.1 and later UISP Android™: Version 2.27.5 and later

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## System

<b>Total throughput</b>	5 Gbps (2.5 Gbps duplex)
<b>Supported clients count</b>	15
<b>Max. range</b>	Connecting to a Wave Long-Range: up to 6 km Connecting to a Wave Nano: up to 4 km
<b>Encryption</b>	WPA2-PSK (AES)

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## RF

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

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## Back-Up RF

<b>WiFi standard</b>	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  
\*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**

13.5 dBi

**Polarization**

Dual-linear

**Beamwidth**

Azimuth: 6 dB 90°  
Elevation: 6 dB 25°

**Cross-pol isolation**

10 dB

**Electric downtilt**

0°

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**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

**Stay in Touch**