

# Tech Specs

UniFi UISP Branding

60 GHz Wireless Wireless Fiber Wired Accessory Tech

60 GHz Wireless > [Wave Pro](#)

Datasheet

Installation Guide

Marketing Images



\*Serves as a station for the Wave AP and Wave AP Micro in PtMP mode.  
\*\*48V DC, 0.65A 2.5 GbE PoE adapter included.

## Mechanical

<b>Dimensions</b>	Ø424.4 x 166.2 mm (Ø16.7 x 6.5")
<b>Weight</b>	Without mount: 2.8 kg (6.2 lb) With mount: 4 kg (8.8 lb)
<b>Enclosure materials</b>	Aluminum alloy, UV stabilized plastic
<b>Mount material</b>	Stainless steel
<b>Pole mount diameter</b>	25 to 76.2 mm (1 to 3") on pipe outer diameter
<b>Wind loading</b>	369 N at 200 km/h (83 lbf at 125 mph)
<b>Weatherproofing</b>	IPX6

## Hardware

<b>Processor</b>	Quad-core ARM® Cortex®-A53 at 1.4 GHz
<b>Memory</b>	DDR3L 512 MB
<b>Networking interface</b>	(2) 2.5 GbE RJ45 ports (1) 10G SFP+ port
<b>Max. power consumption</b>	26W
<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, (2) Ethernet, SFP+ , 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>	PtP, PtMP station
<b>Ubiquiti specific features</b>	Integrated 60 GHz radio, discovery protocol, Wave technology
<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/Router* mode *Router is available in PtMP station mode only.
<b>Application requirements</b>	UISP: Version 2.3.0 and later

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## System

<b>Total throughput</b>	5.4 Gbps (2.7 Gbps duplex)
<b>Max. range</b>	PtP: Up to 15 km PtMP: Up to 8 km (Wave AP), up to 6 km (Wave AP Micro)
<b>Encryption</b>	WPA2-PSK (AES)

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## RF

<b>Operating frequency*</b>	57 to 71 GHz *Depends on regulatory region.
<b>Channel bandwidth</b>	2160, 1080 MHz
<b>Operating channels*</b>	58320, 59400, 60480, 61560, 62640, 63720, 64800, 65880, 66960, 68040, 69120, 70200 MHz *Depends on regulatory region.
<b>Modulation</b>	16QAM, QPSK
<b>Antenna gain</b>	46 dBi
<b>Polarization</b>	Vertically linear
<b>Beamwidth</b>	Azimuth: 3 dB 1.3° Elevation: 3 dB 1.3°

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## Back-Up RF

<b>WiFi Standard</b>	802.11ax (WiFi 6)
<b>Operating frequency* US/CA</b>	U-NII-1 5150 - 5250 MHz U-NII-2A 5250 - 5350 MHz U-NII-2C 5470 - 5725 MHz U-NII-3 5725 - 5850 MHz
<b>Worldwide</b>	5150 - 5875 MHz *Depends on regulatory region.

<b>Channel bandwidth</b>	20, 40, 80 MHz
<b>Max. conducted TX power</b>	27 dBm
<b>Modulation</b>	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)
<b>Antenna gain</b>	22 dBi
<b>Polarization</b>	Dual-linear
<b>Beamwidth</b>	Azimuth: 3 dB 8° Elevation: 3 dB 8°
<b>Cross-pol isolation</b>	20 dB

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## LEDs

<b>Power</b>	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
<b>Ethernet</b>	(2) Flashing blue: Ethernet traffic detected
<b>SFP+</b>	(1) Flashing blue: SFP+ traffic detected
<b>Links</b>	White: 5 GHz link Blue: 60 GHz link
<b>GPS</b>	Blue: receiving at least (4) GPS satellite signal

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