

60 GHz Wireless

Wireless

Fiber

Wired

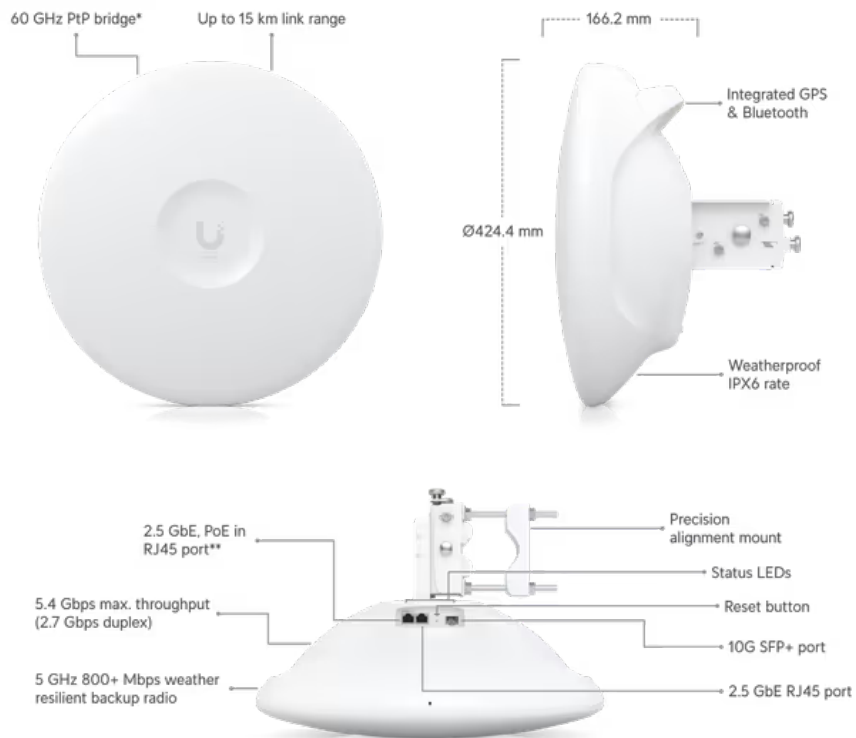
Accessory Tech

60 GHz Wireless / Wave Professional

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

Dimensions

Ø424.4 x 166.2 mm (Ø16.7 x 6.5")

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

Hardware

Processor	Quad-core ARM® Cortex®-A53 at 1.4 GHz
Memory	DDR3L 512 MB
Networking interface	(2) 2.5 GbE RJ45 ports (1) 10G SFP+ port
Max. power consumption	26W
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, (2) Ethernet, SFP+ , 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	PtP, PtMP station
Ubiquiti specific features	Integrated 60 GHz radio, discovery protocol, Wave technology
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 2.3.0 and later

System

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

RF

Operating frequency*	57 to 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 1.3° Elevation: 3 dB 1.3°

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
Max. conducted TX power	27 dBm
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	22 dBi
Polarization	Dual-linear
Beamwidth	Azimuth: 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	(2) Flashing blue: Ethernet traffic detected
SFP+	(1) Flashing blue: SFP+ traffic detected
Links	White: 5 GHz link Blue: 60 GHz link
GPS	Blue: receiving at least (4) GPS satellite signal

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