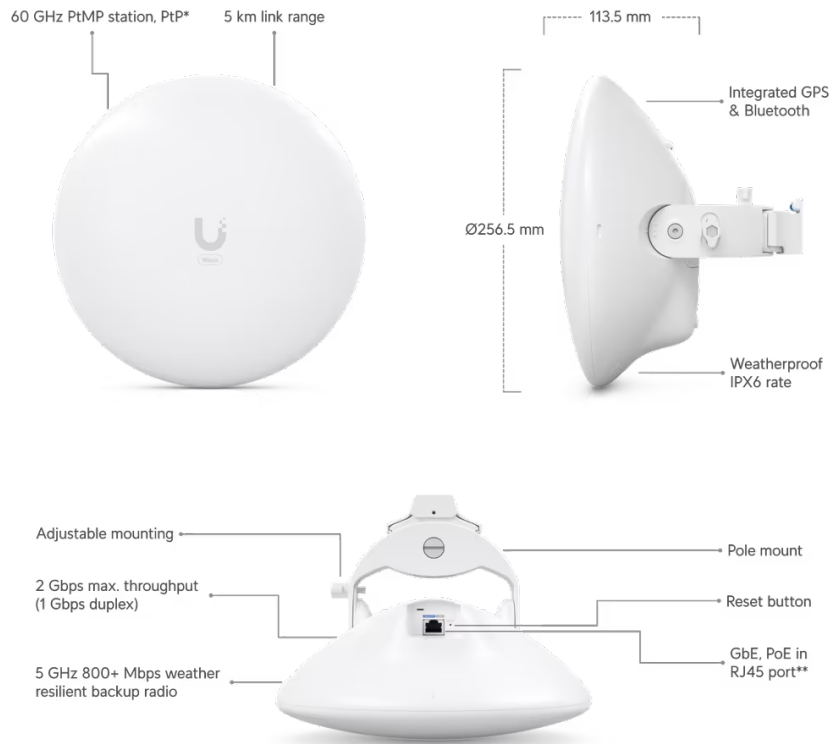




# Wave Nano

## Wave-Nano



\*FW version 3.2.0 and later.

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

### Mechanical

<b>Dimensions</b>	Ø256.5 x 113.5 mm (Ø10.1 x 4.5")
<b>Weight</b>	Without mount: 932 g (2.1 lb) With mount: 1.2 kg (2.6 lb)
<b>Enclosure materials</b>	Aluminum alloy, UV stabilized plastic
<b>Mount materials</b>	Aluminum alloy, UV stabilized plastic
<b>Pole mount diameter</b>	25 to 63.5 mm (1 to 2.5") on pipe outer diameter
<b>Wind loading</b>	127 N at 200 km/h (28.6 lbf at 125 mph)
<b>Weatherproofing</b>	IPX6

### Hardware

<b>Processor</b>	Dual ARM® Cortex®-A53 cores at 1 GHz
<b>Memory</b>	DDR3L 512 MB
<b>Networking interface</b>	(1) GbE RJ45 port
<b>Max. power consumption</b>	20W
<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 gigabit PoE adapter (included) Can be powered by a UISP Router or UISP Switch
<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 station, PtP* *FW version 3.2.0 and later.
<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/Router* mode *Router is available in PtMP station mode only.
<b>Application requirements</b>	UISP: Version 1.4.5 and later

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## System

<b>Total throughput</b>	2 Gbps (1 Gbps duplex)
<b>Max. range</b>	5+ km
<b>Encryption</b>	WPA2-PSK (AES)

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## RF

<b>Operating frequency*</b>	57-71 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>	41 dBi
<b>Polarization</b>	Vertically linear
<b>Beamwidth</b>	Azimuth: 3 dB 1.4° Elevation: 3 dB 1.4°

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## Back-Up RF

<b>WiFi standard</b>	802.11ax (WiFi 6)
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<b>Operating frequency*</b>	
<b>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.
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<b>Channel bandwidth</b>	20, 40, 80 MHz
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<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)
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<b>Antenna gain</b>	19 dBi
<b>Polarization</b>	Dual-linear
<b>Beamwidth</b>	Azimuth: 3 dB 14° Elevation: 3 dB 14°
<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>	Flashing blue: Ethernet traffic detected
<b>GPS</b>	Blue: receiving at least (4) GPS satellite signal
<b>Links</b>	White: 5GHz link Blue: 60GHz link

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