

Tech Specs

UniFi UISP Branding

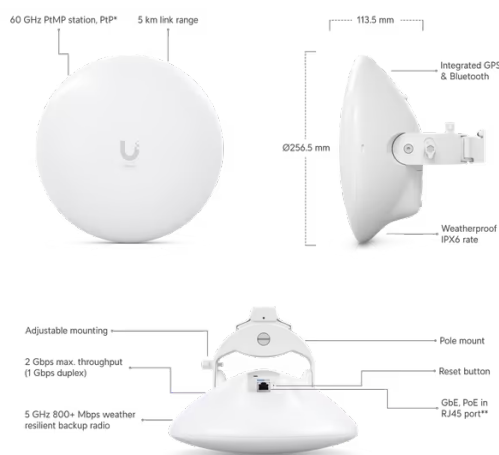
- UniFi Cloud Gateways
- WiFi
- Switching
- Cloud Keys & Gateways
- Camera Security
- Door Access
- Phone System
- New Integrations
- Accessories

Wave Nano

Datasheet

Installation Guide

Marketing Images



*FW version 3.2.0 and later.
**48V DC, 0.65A GbE PoE adapter included.

Mechanical

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

Hardware

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

System

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

RF

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

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
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	19 dBi
Polarization	Dual-linear
Beamwidth	Azimuth: 3 dB 14° Elevation: 3 dB 14°
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
Flashing blue: Ethernet traffic detected

GPS
Blue: receiving at least (4) GPS satellite signal

Links
White: 5GHz link
Blue: 60GHz link

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