Wave Nano



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 ARM® Cortex®-A53 cores at 1GHz
Memory	DDR3L 512MB
Networking interface	(1) GbE RJ45 port
Max. power consumption	18W
Power method	48VDC passive PoE 4-pairs (1, 2+; 3, 6-) (4,5+; 7, 8-) or 2-pairs (4, 5+; 7, 8-) 24VDC passive PoE 4-pairs (1, 2+; 3, 6-) (4, 5+; 7, 8-)
Power supply	48VDC, 0.65A gigabit PoE adapter (included) Can be powered by a UISP Router or UISP Switch
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

OS	airOS®
Operating mode	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
Software management	Bluetooth management for easy setup over UISP app WEB UI
Minimum software requirements	Any modern web browser/iOS or Android based smartphone

System

Total throughput	2 Gbps (1 Gbps duplex)

Maximum range	5 km
Encryption	WPA2-PSK (AES)

RF

Operating frequency*	57 to 71 GHz *Depends on regulatory region.
GPS	Yes
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
Azimuth and elevation beamwidth	3 dB: 1° 6 dB: 1.4°

Back-Up RF

WiFi standard	802.11ax (WiFi 6)
Operating frequency*	US/CA: U-NII-1: 5150 - 5250 MHz US/CA: U-NII-3: 5725 - 5850 MHz Worldwide: 5150 - 5875 MHz *Depends on regulatory region.
Channel bandwidth	20, 40, 80 MHz
Modulation	BPSK (½), QPSK (½), QPSK (¾), 16QAM (½), 16QAM (¾), 64QAM (2⁄3), 64QAM (¾), 64QAM (5⁄6), 256QAM (¾), 256QAM (5⁄6), 1024QAM (¾), 1024QAM (5⁄6)
Antenna gain	19 dBi
Polarization	Dual-linear
Cross-pol isolation	20 dB
Beamwidth	Azimuth: 3 dB BW 14 to 17° Elevation: 3 dB BW 14 to 17°
Azimuth and elevation beamwidth	3 dB: 14 to 17°

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: fimware 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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