



UniFi [UISP](#) Branding

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60 GHz Wireless

Wireless

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Wave 60 GHz > [Wave Nano](#)



Wave Nano

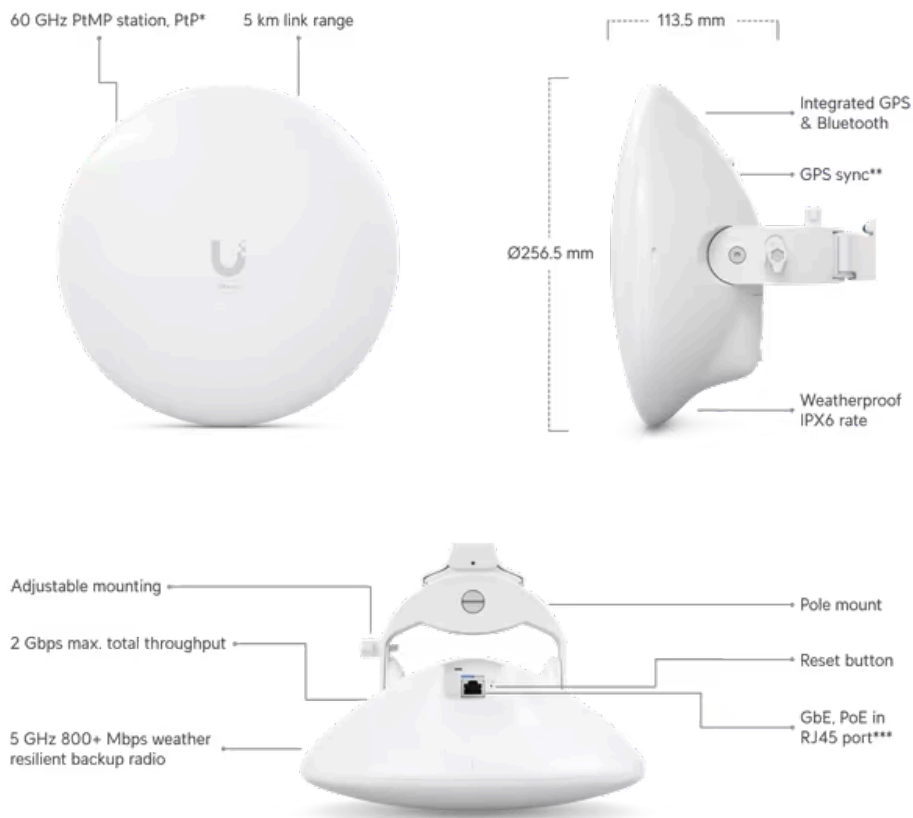
Wave-Nano-US

Datasheet

Marketing Images

Accessories

Installation Guide



*FW version 3.2.0 and later.

**For devices operating in PtP AP mode with FW version 3.3.0 or 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 Material	Aluminum alloy, UV stabilized polycarbonate
Mount Material	Aluminum alloy, UV stabilized polycarbonate
Mounting	Pole Mount
Pole Mount Diameter	25 to 63.5 mm (1 to 2.5") ⓘ
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	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
Supported Voltage Range	44-54V DC 22-27V DC
Power Supply	48V DC, 0.65A gigabit PoE adapter (Included)
GPS	✓
Buttons	(1) Factory reset
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
Link	White: 5 GHz link Blue: 60 GHz link
Ambient Operating Temperature	-40 to 60° C (-40 to 140° F)
Ambient Operating Humidity	5 to 95% noncondensing
NDAA Compliant	✓
Certifications	FCC, IC, CE
^ Software	
Operating Modes	PtP PtMP Station ⓘ
Ubiquiti Specific Features	
Discovery Protocol	✓
Traffic Shaping with Burst Support	✓ ⓘ
Services	
UISP	✓
Ping Watchdog	✓
NTP Client	✓
SNMP	✓
Tools	
Cable Test	✓ ⓘ
Wave AI	✓
Wave Technology	✓
Utilities	
Antenna Alignment	✓
Ping	✓
Site Survey	✓ ⓘ
Speed Test	✓
Traceroute	✓

Network	Bridge/Router mode ⓘ
Application Requirements	
UISP	Version 1.4.5 and later
^ System	
Total Throughput	2 Gbps
Max. Range	5+ km (3.1 mi)
Encryption	WPA2-PSK (AES)
^ Radio Frequency	
Operating Frequency	
Worldwide	57-71 GHz ⓘ
Channel Bandwidth	2160, 1080, 540 MHz ⓘ
Operating Channels	58320, 59400, 60480, 61560, 62640, 63720, 64800, 65880, 66960, 68040, 69120, 70200, 70560 MHz ⓘ
Modulation	16QAM, QPSK
Antenna Gain	41 dBi
Polarization	Vertically-Linear
Beamwidth	Azimuth: 3 dB 1.4° Elevation: 3 dB 1.4°
^ Radio Frequency (Back-Up)	
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 ⓘ
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

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