Ubiquiti UISP Wave-LR – Datasheet

Mechanical Specifications

Dimensions	Ø424.4 × 166.2 mm (Ø16.7 × 6.5")
Weight	Without mount: 2.6 kg (5.7 lb); With mount: 3.8 kg (8.4 lb)
Enclosure	UV-stabilized plastic
Mount	Stainless steel, pole-compatible (25–76.2 mm)
Wind loading	286 N at 200 km/h (64.3 lbf at 125 mph); weatherproof IPX6

Hardware Specifications

Processor	Dual-core ARM Cortex-A53 @ 1 GHz
Memory	512 MB DDR3L
Ports	(1) GbE RJ45, PoE-powered
Max power consumption	20 W
Power	Passive PoE (4-pair & 2-pair for 44–54 V & 22–27 V DC ranges)
Included PoE adapter	48 V DC, 0.65 A gigabit

Extras	GPS and factory-reset button, Bluetooth setup

60 GHz Radio Specifications

Frequency	57–71 GHz (region-dependent)
Channel bandwidth	2160/1080/540 MHz (*via FW ≥ 3.3.0)
Throughput	Up to 2 Gbps (1 Gbps duplex)
Max Range	PtP ≤8 km, PtMP ≤15 km (*FW ≥ 3.2.0)
Antenna	46 dBi, vertically polarized, beamwidth Azimuth/Elevation ≈ 1°
Modulation	16QAM, QPSK
Encryption	WPA2-PSK (AES)

Backup 5 GHz Wi-Fi 6 Radio

Standard	802.11ax
Frequency	5150–5875 MHz
Bandwidths	20/40/80 MHz
TX Power	27 dBm
Antenna	22 dBi dual-linear, beamwidth ~8°, 20 dB cross-pol isolation
Modulation	Supports up to 1024QAM

Software & System

Operating mode	PtMP station; PtP supported (*FW ≥ 3.2.0)
UISP Compatibility	App v1.4.5+; Automated setup & monitoring
Wave AI & Tools	Antenna alignment, discovery, speed/ping/traceroute, cable/site test
System Mode	Bridge by default; Router in PtMP station mode

LED Indicators

LEDs	Power, Ethernet, GPS, Link (5 GHz/60 GHz indicated via color)
Statuses	Boot, UISP connect status, locate, firmware upgrade statuses

Environmental & Compliance

Operating Temp/Humidity	−40 to 60 °C; 5–95% non-condensing
Certifications	FCC, IC, CE; NDAA Compliant
Weatherproof	IPX6 — fully outdoor-ready