Wave™ AP | Datasheet
Wave-AP

U ISP

60 GHz Wave AP

60 GHz, point-to-multipoint (PtMP) base station radio featuring Wave Technology that delivers true duplex Gigabit performance at a 5+ km range, supports up to 16 clients*, and can be used with an AF60 LR functioning as CPE.*

The 60 GHz Wave AP is the first entry in the new Wave AP series designed to provide unparalleled throughput and client capacity, delivering 1+ Gbps throughput rates to up to 16 clients.* Designed to be compatible with AF60 LR and other Wave products, the 60 GHz Wave AP can connect to PtMP links across distances up to 5 km by taking advantage of the extended range offered by its Wave Technology. The 60 GHz Wave AP also features integrated GPS and a built-in Bluetooth management radio to simplify device setup and configuration.

*Current firmware only supports 8 clients, but a future update will expand client capacity to 16.
** The AF60 LR's firmware must be updated to at least Version 3.0.0.

Mechanical

Dimensions	213.8 x 205.3 x 187 mm (8.42 x 8.08 x 7.36")
Weight	1.68 kg (3.7 lb)
Enclosure material	UV stabilized plastic
Mount material	Aluminum alloy
Mounting	Integrated pole mount with fine elevation adjustment
Range of mast diameter	25 to 65 mm (1 to 2.56") on pipe outer diameter
Wind loading	117 N at 200 km/h (26.3 lbf at 125 mph)
Weatherproofing	IPX6

Hardware

Networking interface	10/100/1000 Mbps RJ45 ethernet
Management interface	Ethernet Bluetooth (class 2)
RF connections	Internal
Max. power consumption	22W
Power method	Passive PoE 4-pairs (1, 2+ ; 3, 6-) (4, 5+; 7, 8-) or 2-pairs (4, 5+; 7, 8-)
Power supply	48VDC, 0.65A gigabit PoE adapter (included)
Supported voltage range	48V ±10%
Button	Factory reset
ESD/EMP protection	Air/contact: ± 24kV
Operating temperature	-40 to 60° C (-40 to 140° F)
Operating humidity	5 - 95% noncondensing
Certifications	FCC, IC, CE

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 signals

System

Maximum throughput	1.95 Gbps
Maximum range	5 km
Encryption	WPA2-PSK (AES)

Software

OS	airOS®
Operating mode	PtMP as access point only
Ubiquiti specific features	Integrated 60 GHz radio, discovery protocol, Wave technology
Services	UISP, ping watchdog, NTP client, device discovery
Tools	Antenna alignment, discovery utility, ping, trace route, speed test
Network	Bridge 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

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 MHz *Depends on regulatory region.
Modulation	16QAM, QPSK
Beamwidth	Azimuth FOV: 30° Elevation: 3 dB 3°/6 dB 4°
Electrical downtilt	0°