

UniFi - Wave MLO5

SKU: UBAM-WAVE-MLO5



The Wave MLO5 from Ubiquiti is a high-performance dual 5 GHz Wi-Fi 7-based radio with cutting-edge Multi-Link Operation (MLO) technology, delivering over 5 Gbps throughput. Ideal for long-range integrations, it supports connections up to 100 km and is equipped with 10 GbE and SFP+ ports for high-speed connectivity. Integrated Bluetooth and channel puncturing enhance performance, making it perfect for reliable and efficient networking in congested areas.

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Mechanical

Dimensions	249.3 x 82 x 47.6 mm (9.8 x 3.2 x 1.9")
Weight	575 g (1.3 lb)
Enclosure material	Aluminum alloy, UV-resistant polycarbonate
Mount material	Strap: stainless metal Universal bracket: UV-resistant polycarbonate
Pole mount diameter	5.4 to 50.8 mm (1 to 2") on pipe outer diameter
Weatherproofing	IPX6

Hardware

Processor	Quad-core IPQ5322 at 1.5 GHz
Memory	DDR4 1 GB
Networking interface	(1) 10 GbE RJ45 port (1) 10G SFP+ port
RF connectors	(2) RP-SMA (Waterproof) (1) GPS (Waterproof)
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	54V DC, 0.56A, 10 GbE PoE adapter (Included)
Supported voltage range	44–54V DC 22–27V DC
Max. TX power* 5 GHz	24 dBm *Depends on regulatory region.
MIMO	
5 GHz	(2) 2 x 2
GPS	Yes
Button	(1) Factory reset
LEDs	(1) Power, (1) Ethernet, (1) GPS, (4) signal
Ambient operating temperature	-40 to 60° C (-40 to 140° F)

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Ambient operating humidity
Certifications

5 to 95% noncondensing
FCC, IC, CE

Software

Operating mode

PtP

Services

UISP, ping watchdog, NTP client

Tools

Alignment, speed test, ping, traceroute, discovery, site survey

Network

Bridge mode

Total throughput

5+ Gbps

Max. range*

100 km *Throughput and range values may vary depending on the environmental conditions.

Encryption

WPA3-PSK (AES)

RF

Operating frequency*

5180 – 5320, 5500 – 5700, 5745 – 5825 MHz

*Depends on regulatory region.

Channel bandwidth

Radio 1: 20, 40, 80, 160 MHz

Radio 2: 20, 40, 80, 160, 240 MHz

Modulation

BPSK ($\frac{1}{2}$), QPSK ($\frac{1}{2}$), QPSK ($\frac{3}{4}$), 16QAM ($\frac{1}{2}$), 16QAM ($\frac{3}{4}$), 64QAM (), 64QAM ($\frac{3}{4}$), 64QAM (), 256QAM ($\frac{3}{4}$), 256QAM (), 1024QAM ($\frac{3}{4}$), 1024QAM (), 4096QAM ($\frac{3}{4}$), 4096QAM ()

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