WAVE-LR

Ubiquiti UISP 60GHz/5GHz Long range PtMP CPE

Product Overview

Ubiquiti UISP 60GHz/5GHz Long range PtMP CPE, WAVE-LR, 1x GbE RJ45 Port, airOS, PtMP station operating mode, 2 Gbps total Throughput, 8+ km Maximum range, 46 dBi antenna gain







Specifications

Overview:

UISP Wave Long-Range
SKU: Wave-LR-EU
60 GHz PtMP station powered by Wave Technology.

Can connect to a Wave AP and deliver 2 Gbps total throughput (1 Gbps duplex). The Wave Long-Range is equipped with a high-performance 5GHz backup radio to ensure uninterrupted connection and a Bluetooth radio to simplify setup via the UISP Mobile app.

- 5 GHz backup radio
- Link range: up to 8 km
- Router mode support
- Integrated GPS antenna

- Link planning support via ISP Design Center

Specifications:

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Specifications	
Product Code	WAVE-LR
Mechanical	
Dimensions	Ø424.4 x 166.2 mm (Ø16.7 x 6.5")
Weight	Without mount: 2.59 kg (5.7 lb)
	With mount: 3.79 kg (8.4 lb)
Enclosure material	UV stabilized plastic
Mount material	Galvanized steel
Pole mount diameter	25 to 76.2 mm (1 to 3") on pipe outer diameter
Wind loading	286 N at 200 km/h (64.3 lbf at 125 mph)
Weatherproofing	IPX6
Hardware	
Processor	Dual ARM Cortex -A53 cores at 1 GHz
Memory	DDR3L 512 MB
Networking interface	(1) GbE RJ45 port
Max. power consumption	18W
Power method	48V DC passive PoE 4-pairs (1, 2+, 3, 6-) (4, 5+, 7, 8-) or 2-pairs (4, 5+, 7, 8-)
	24V DC passive PoE 4-pairs (1, 2+, 3, 6-) (4, 5+, 7, 8-)
Power supply	48V DC, 0.65A gigabit PoE adapter (included)
	Can be powered by a UISP Router or UISP Switch
GPS	Yes
Button	Factory reset
LEDs	Power, Ethernet, GPS, link
Operating temperature	-40 to 60 degrees C (-40 to 140 degrees F)
Operating humidity	5 to 95% noncondensing
Certifications	FCC, IC, CE
Software	
OS	airOS
Operating mode	PtMP station
Ubiquiti specific features	Wave AI, discovery protocol
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	8+ km
Encryption	WPA2-PSK (AES)
RF	
Operating frequency	57 to 71 GHz
	*Depends on regulatory region.
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	46 dBi
Azimuth and elevation beamwidth	3 dB: 0.8 degrees
	6 dB: 1.1 degrees
Back-Up RF	
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
	*Depends on regulatory region.
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	22 dBi
Polarization	Dual-linear
Cross-pol isolation	20 dB
Azimuth and elevation beamwidth	3 dB: 8 to 10 degrees
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
Links	White: 5GHz link
	Blue: 60GHz link

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/WAVE-LR-Ubiquiti-UISP-60GHz-5GHz-Long-range-PtMP-CPE-p-280606.php

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