

## Overview

The MikroTik wsAP ac lite is a compact, in-wall dual-band wireless access point designed for hospitality and public networks such as hotels, malls, hospitals, and airports. It provides reliable dual concurrent 2.4 GHz and 5 GHz Wi-Fi coverage supporting 802.11ac and legacy standards. The device features three Ethernet ports including PoE-in for easy installation, a USB port for charging, and a passthrough telephone jack for cable management. Its discreet design fits standard wall sockets blending seamlessly into any environment. This makes wsAP ac lite ideal for high-density environments requiring stable, high-speed wireless connectivity.

## QUICK SPEC

FIGURE 1: APPEARANCE OF wsAP ac lite



TABLE 1: Quick Specs

SKU	wsAP ac lite
Backplane speed	
Throughput	433 Mbps on 5 GHz 300 Mbps on 2.4 GHz
Ports	3x 10/100 Ethernet ports
Dimensions (W x H x D)	112 mm x 126 mm x 30 mm



Product Details



FIGURE 2: FRONT PANEL OF wsAP ac lite



FIGURE 3: BACK PANEL OF wsAP ac lite





wsAP ac lite AP provides these features:

**1. Dual Concurrent 2.4 GHz and 5 GHz WiFi Coverage**

The wsAP ac lite supports simultaneous dual-band wireless operation, allowing it to serve devices on both 2.4 GHz and 5 GHz frequencies. This ensures compatibility with a wide range of client devices and helps reduce wireless interference in crowded environments by distributing traffic across two bands.

**2. Three 10/100 Ethernet Ports**

The device includes one PoE-in port for power and network connectivity and two additional LAN ports for connecting wired devices directly. This setup allows flexible network segmentation, enables wired device connections, and simplifies cabling in hospitality or enterprise environments.

**3. QCA9531 Single-Core 650 MHz CPU and 64 MB RAM**

The efficient MIPSBE CPU paired with adequate RAM handles wireless traffic and device management smoothly, making it suitable for medium-density deployment scenarios like hotels, hospitals, and shopping centers.

**4. USB 2.0 Port for Charging and Storage**

The USB port enables charging of mobile devices or connecting external storage devices, adding utility beyond standard access point roles, particularly in hospitality settings where convenience is key.

**5. Pass-Through RJ11 Telephone Jack**

Designed for hotel environments, this feature allows connection of desk phones directly through the AP, simplifying wiring and improving space management in guest rooms.

**6. Compact Wall Socket Design (112 x 126 x 30 mm)**

The AP fits discreetly into standard wall power outlets, minimizing visual impact while providing reliable wireless coverage throughout indoor areas such as guest rooms, lobbies, and hallways.

**7. Power over Ethernet (PoE) Support**

It is compatible with 802.3af/at PoE standards, the device can be powered and connected through a single Ethernet cable, easing installation and reducing the need for separate power supplies.

**8. RouterOS with License Level 4**

It provides advanced networking features including firewall, VPN, hotspot, and QoS management for robust security and customizable wireless service.

**9. Wide Operating Temperature Range (-40°C to +60°C)**

It ensures reliable performance in various environmental conditions, suitable for indoor spaces with varied temperature control.



## SPECIFICATION



wsAP ac lite SPECIFICATION	
Model	wsAP ac lite
Architecture	MIPSBE
CPU	QCA9531
CPU core count	1
CPU nominal frequency	650 MHz
Switch chip model	QCA9531
Dimensions	112 x 126 x 30 mm
RouterOS license	4
Operating System	RouterOS
Size of RAM	64MB
Storage size	16MB
Storage type	FLASH
MTBF	Approximately 100'000 hours at 25°C
Tested ambient temperature	-40°C to 60°C
Wireless 2.4 GHz Max data rate	300 Mbit/s
Wireless 2.4 GHz number of chains	2
Wireless 2.4 GHz standards	802.11b/g/n
Antenna gain dBi for 2.4 GHz	1.5
Wireless 2.4 GHz chip model	QCA9531
Wireless 2.4 GHz generation	Wi-Fi 4
Wireless 5 GHz Max data rate	433 Mbit/s
Wireless 5 GHz number of chains	1
Wireless 5 GHz standards	802.11a/n/ac
Antenna gain dBi for 5 GHz	3
Wireless 5 GHz chip model	QCA-9887
Wireless 5 GHz generation	Wi-Fi 5
WiFi speed	AC750
10/100 Ethernet ports	3
Number of USB ports	1
USB Power Reset	Yes
USB slot type	USB type A
Max USB current (A)	0.5
Number of DC inputs	1 (PoE-IN)
Max power consumption	20 W
Max power consumption without attachments	6 W
PoE in	802.3af/at
Cooling type	Passive
PoE in input Voltage	18-57 V
PoE-out ports	Ether3

PoE out	Passive PoE	
Low voltage PoE-Out current limit	420 mA	
Max total out (A)	420 mA	
Wireless specifications		
2.4 GHz	Transmit (dBm )	Receive Sensitivity
<ul style="list-style-type: none"> <li>• 1MBit/s</li> <li>• 11MBit/s</li> <li>• 6MBit/s</li> <li>• 54MBit/s</li> <li>• MCS0</li> <li>• MCS7</li> </ul>	<ul style="list-style-type: none"> <li>• 22</li> <li>• 22</li> <li>• 20</li> <li>• 18</li> <li>• 20</li> <li>• 16</li> </ul>	<ul style="list-style-type: none"> <li>-96</li> <li>-89</li> <li>-93</li> <li>-74</li> <li>-93</li> <li>-71</li> </ul>
Wireless specifications		
5 GHz	Transmit (dBm )	Receive Sensitivity
<ul style="list-style-type: none"> <li>• 6MBit/s</li> <li>• 54MBit/s</li> <li>• MCS0</li> <li>• MCS7</li> <li>• MCS9</li> </ul>	<ul style="list-style-type: none"> <li>• 23</li> <li>• 20</li> <li>• 23</li> <li>• 19</li> <li>• 16</li> </ul>	<ul style="list-style-type: none"> <li>-93</li> <li>-75</li> <li>-93</li> <li>-71</li> <li>-63</li> </ul>
Mode Button	Yes	
Certification	CE, FCC, IC, EAC, ROHS	



## Why Insight Infosys.com

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