

# UM-305AX

## Dual-band 2x2 Wi-Fi 6 Access Point Datasheet



### Features

#### Gigabit Link Speed, New Standard Compliant

UM-305AX supports aggregated link speed of 1800Mbps. It offers 600Mbps in 2.4GHz band and 1200Mbps in 5GHz band. Support for IEEE 802.11ax standard provides best alternative to minimize interference and offer optimal performance to high end user devices.

#### 2x2 Multiple Input and Multiple Output (MU-MIMO)

UM-305AX AP supports both downlink (DL) and uplink (UL) MU-MIMO, allowing efficient utilization of available RF spectrum for data transmission. It helps deliver very high throughput by doubling the link speed of transmitting device as compared to old generation wireless devices. For receiving device, MIMO improves receive sensitivity which translates into high SNR and download throughput.

#### Automatic Provisioning, Plug-and-play

All Indio series APs are self-configurable and pure plug-and-play device. As soon as UM-305AX AP is powered on and connected to the network, it downloads configuration from the cloud or on-premise controller appliance and becomes operational within few minutes. It enables seamless and human intervention free installation experience.

#### Enterprise Level Security and Hotspot 2.0 Compliant

All Indio series APs come with support for enterprise level wireless security including the latest WPA3 standard. UM-305AX supports Passpoint standard for cellular network integration and mobile data offloading. Different level of security and VLAN isolation helps in delivering secured and seamless connectivity services.

**UM-305AX is Indio's entry level dual band Wi-Fi 6 access point. It offers aggregated link speed up to 1800Mbps and can support 128+ users. It is best suited for indoor deployments such as offices, convention centres, shopping malls, restaurants etc. The AP comes with mounting options to support ceiling and wall mounting. UM-305AX can be powered on using both 12V DC power supply as well as standard 802.3at PoE+ supply options.**

Indio UM-305AX AP is the perfect solution for venues that require superior indoor wireless connectivity solution such as offices, co-working spaces, meeting halls, manufacturing hubs etc. High link speed with high number of concurrent user handling capabilities makes it an ideal choice for businesses which have to deal with dense user presence. The access point is especially designed to meet the aesthetic needs of indoor deployments. All Indio series AP come with over-the-air firmware upgrade support and thus customers remain assured about getting new software features and security patches applied through automatic or scheduled upgrades.

### Key Points:

- Comply with latest IEEE 802.11ax/ac/b/g/n standards, 1800Mbps aggregated link speed.
- Dual band, 2x2 MIMO and supports MU-MIMO with DL/UL-OFDMA modulation.
- 2x 10/100/1000Mbps Ethernet ports, supports active IEEE 802.3at 48V PoE standard
- Supports 128+ concurrent users, optimized to deliver high throughput for each device.
- Plug and play, managed by both cloud and on-premise hardware controller appliance.
- Very low power consumption, maximum power drawn is approximately 15W.
- Supports many Wi-Fi programs and certifications such as OpenWiFi, Express Wi-Fi, PM-WANI and Passpoint.

AP Characteristics	
Chipset	MT7621DAT+MT7905N+MT7975DN
Standard	802.11ax/ac/b/g/n
Flash	SPI NOR 16MB
Memory	256 MB
2.4G Frequency	2.4GHz - 2.484GHz
2.4G Wi-Fi standard	802.11b/g/n/ax
5.8G Frequency	5.15GHz~5.850GHz
5.8G Wi-Fi Standard	802.11 a/n/ac/ax
Interface	1*10/100 /1000 RJ45 WAN Port 1*10/100 /1000 RJ45 LAN Port 1*Reset button, press 10 seconds to revert to default setting
Antenna	4dBi internal antenna
Data Rate	1800Mbps
End Users	128+
RF Power	≤ 18dBm
PoE	48V POE+ (IEEE 802.3at)
LED light	System
Power Consumption	≤ 15W
Size	185 mm diameter, 32mm height
Weight	390 gm

Environmental & Physical Data	
Operating Temperature	0°C ~+45°C
Storage Temperature	-20°C ~+70°C
Operating Humidity	10% ~90% non-condensing
Storage Humidity	10%~90% non-condensing
Mounting	Wall/Ceiling Mount

RF Characteristics	
Antenna Type	Internal
Antenna Gain	4dBi
Max. Transmit Power (EIRP)	22dBm
Min. Receiver Sensitivity	-93dBm
Frequency Modulation	1024 QAM
Link Rate	1800Mbps

Regulatory Domains & Supported Channels	
Americas (US)	2.4GHz: Channels 1 – 11 5GHz: Channels 36-64, 100-144, 149-165
European Union	2.4GHz: Channels 1 – 13 5GHz: Channels 36-64, 100-144
Taiwan	2.4GHz: Channels 1 – 11 5GHz: Channels 56-64, 100-144, 149-165
Japan	2.4GHz: Channels 1 – 13,14 5GHz: Channels 36-64, 100-144
Israel	2.4GHz: Channels 1 – 13 5GHz: Channels 36-64
Rest of the world	2.4GHz: Channels 1 – 13 5GHz: Channels 36-64, 100-144, 149-165

Wireless	
Wi-Fi Standards	802.11ax/ac/b/g/n; 802.11kvr
Link Speed	2.4GHz: 600Mbps; 5GHz: 1200Mbps
MIMO/Spatial Streams	2.4GHz (2x2:2); 5GHz(2x2:2)
Wireless Security	Open, WPA-PSK/TKIP, WPA2-PSK/TKIP/CCMP/AES, WAP2-EAP/802.1x WPA3
Modulation	OFDM - 1024QAM OFDMA - MU-MIMO, DL/UL
Frequency band	2.4GHz - 2.484GHz 5.15GHz~5.85GHz

Ordering Information	
Part No.	UM-305AX

Certifications	
EN 60950-1	Safety
CE	Compliant
FCC	Compliant
WPC	Yes
OpenWiFi	Yes
Passpoint	No

Software	
Standard Version	Bandwidth: 20Mhz, 20/40Mhz, 80Mhz
Operation Mode	Gateway, Wireless AP, Repeater, WISP
SSID No.	4 SSID for 2.4G, 4SSID for 5.8G
Factory Default Setting	Yes
Centralized Management by AP Controller	Yes
Firewall	DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
Protocols	IPv4/v6, DHCP, ARP, IGMP

Networking	
Management Platform	UniBox (on-premise) WiOS (Cloud) Standalone
IP	IPv4 / IPv6
VLAN	802.1q (static and dynamic using Radius) Port based
802.1x	Authentication and Supplicant
Tunnels	L2TP GRE
Policy	ACL Rate Limiting MAC Login

Controller Software	
Installation	UniBox (on-premise) WiOS (Cloud) Standalone
Network Management	WLAN Controller, WLAN Cloud Controller Firmware Management
Authentication	RADIUS authentication, 802.1x
Rate Limiting	Per Client, Per SSID, Dynamic Rate Limiting MAC, Authentication MAC Filtering, Firewall
Guest Portals	Click-through, Data Capture, SMS/OTP, Payment Gateway, Social-Media, Voucher, Username/Password
Troubleshooting	syslog, ping, traceroute etc.
SNMP	No
Time Sync	NTP
Data Offload	No
Client Presence / Location API	No

Radio Resource Management	
Channel Management	Auto-Channel Selection, Fast Roaming
Density Management	Band Steering, Transmit Power Control, User Load Balancing
QoS	Per SSID QoS, Per- Device QoS, Airtime Fairness

Performance Capacity	
Peak Data Rates	2.4GHz: 600Mbps; 5GHz: 1800Mbps
Client Capacity	100+
SSID	4 per radio

Accessories (optional)	
UM-PoE-24W	802.3af/at 24W GPoE Injector
UM-DC-12V	12V/2A DC Power Supply
UM-Bracket	Wall/Ceiling mount Bracket (included)

Access Point Deployments

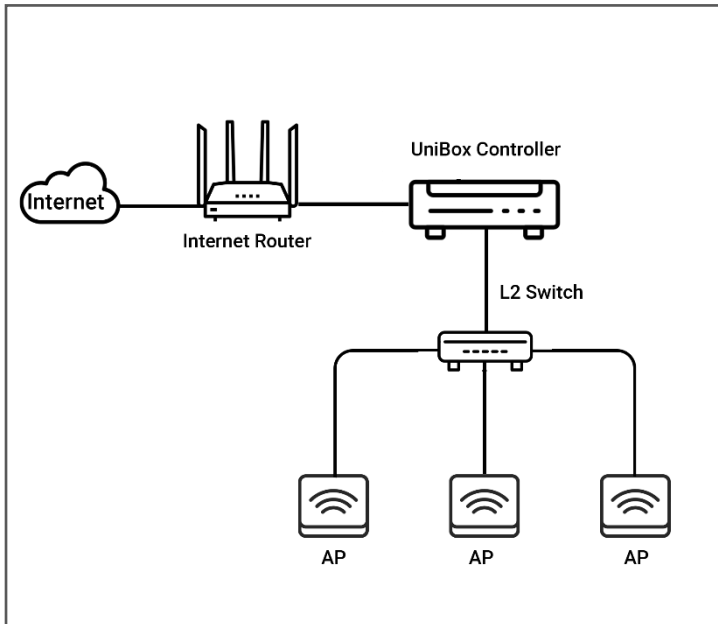


Figure 1. Indio access point with Indio's UniBox on-premise controller. (Enterprise/Venue deployment)

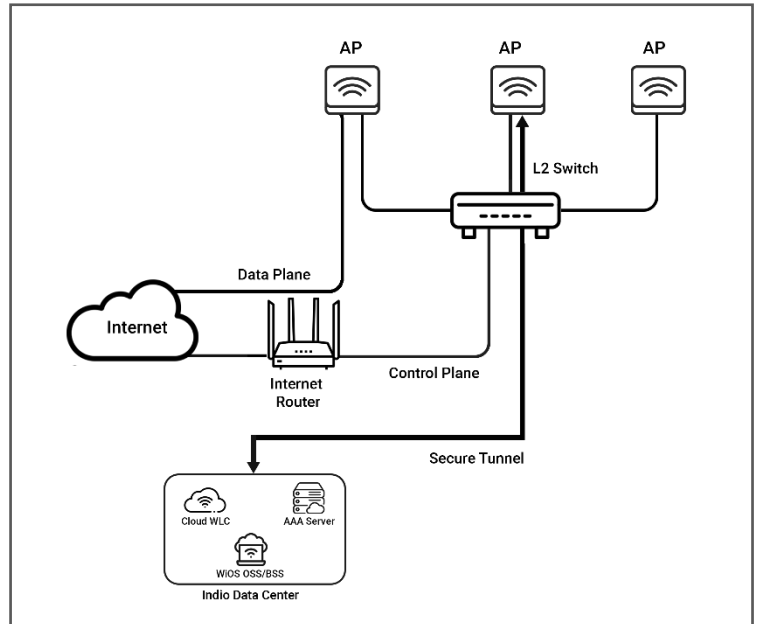


Figure 2. Indio access point with Indio's WiOS cloud controller. (Enterprise/Venue)

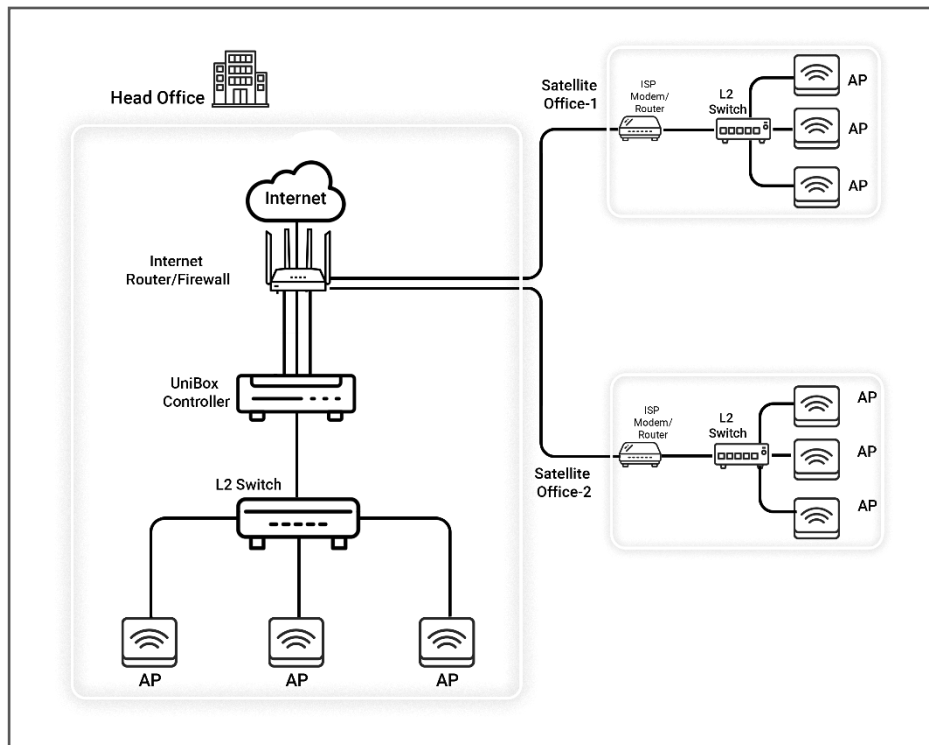
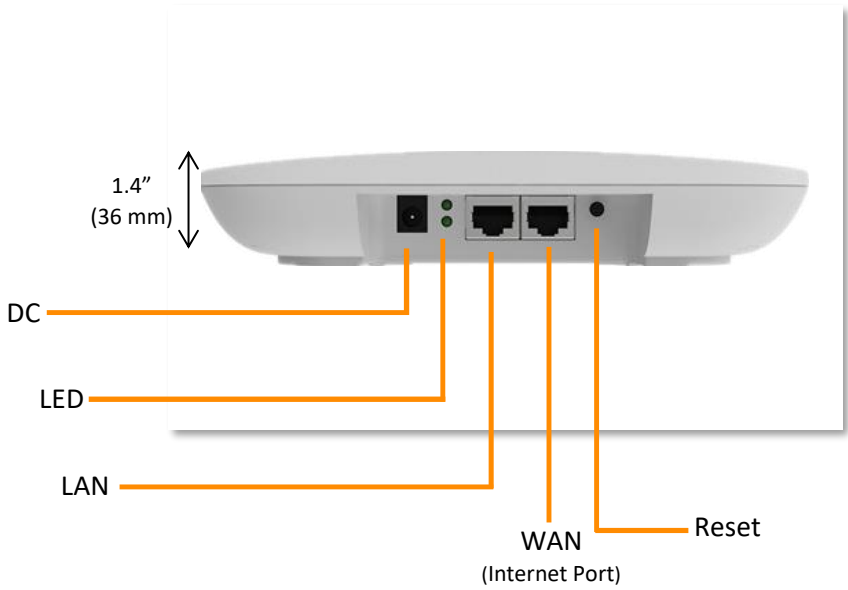
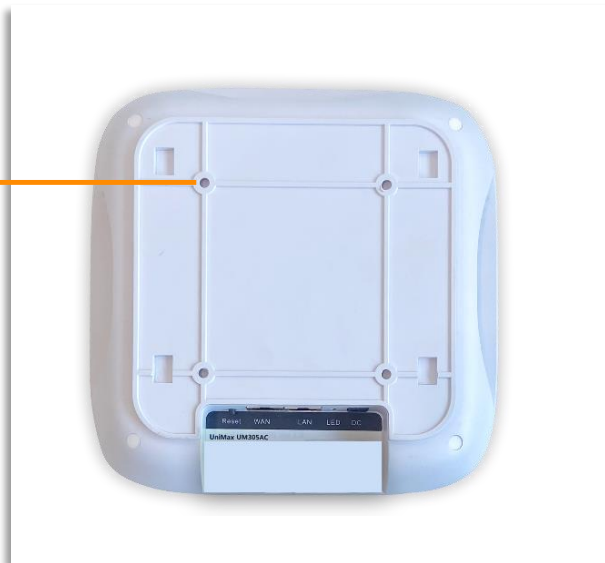


Figure 3. Indio access point with central controller. (Distributed deployment)



365g  
(0.804lbs)

Wall mounting  
keyholes



With over two decades of experience, we have worked closely in the wireless space essentially serving over 25+ million users till date. At Indio, we have seen disruptions in the tech sphere and worked alongside them. We solve problems where we see them, we evolve, innovate and adapt. That's why, we constantly craft newer products and solutions to make your life easier. 'Simplifying connectivity' is a principle we hold dear, and we plan on bringing it to everyone, everywhere. With a strong presence in over three important geographies, being Asia, the Middle East and America, we are always available for quick and responsive customer support.

For more information visit- [www.indionetworks.com](http://www.indionetworks.com)

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