

# Wi-Fi 6 Indoor Wireless Ceiling Mount Access Point

WI-AP218AX | WI-AP219AX

## Overview

Wi-Tek Wi-Fi 6 wireless ceiling AP series is specially designed for indoor Wi-Fi coverage. Support 802.3 PoE power supply, local power supply 12V DC. The dual network port design is conducive to the expansion of third-party devices and meets the needs of more networking scenarios. Compatible with 802.11a/b/g/n/ac/ax Wi-Fi protocol, 802.11ax protocol adopts OFDMA, 1024QAM, MU-MIMO, and other key technologies to support faster speed and more user access. In addition, the AP supports cloud management, and users can quickly deploy, configure, remotely manage and operate network-wide equipment, greatly reducing equipment investment costs. Offers fast wireless roaming and wired connectivity, ideal for use in hotels, retail, offices, and more.

## Features

### Ultra-Fast Wi-Fi 6 Speeds

WI-AP218AX up to 1775Mbps high-speed wireless access, WI-AP219AX up to 3550Mbps high-speed wireless access.

### High-Efficiency Wi-Fi 6

By introducing new technologies such as OFDMA, upstream-MU-MIMO, BSS Coloring, and TWT, the system has greatly improved its performance. Compared with Wi-Fi 5, it has four times more bandwidth and concurrent users, with lower latency and more energy saving.

### Cloud Management

Users can conduct the comprehensive remote operation, management, and maintenance of the entire network equipment through the Wi-Tek cloud platform, and can also share the network with a third party for network hosting and collaborative management, to operate and maintain the enterprise network more efficiently.

### Multiple Power Supply Methods

Supports 802.3at PoE and 12V DC local power. Flexible power supply options for different installation environments.

### Fast Roaming

802.11k and 802.11v fast roaming provide seamless switching to the access point with the optimal signal when moving between APs.

### Support Multiple Working Modes

The device supports Fit AP/Fat AP/Repeat/WISP multiple working modes, the configuration is more flexible, the application features are more abundant, and the application scenarios are more extensive.



# Specifications

| Products               | WI-AP218AX   | WI-AP219AX  |
|------------------------|--|---|
| Hardware Version       |  |   |
| Wireless Standards     | IEEE 802.11ax/ac wave2/wave1/n/b/g/a   |   |
| Operating Bands        | 2.4GHz & 5GHz  | 2.4GHz & 5GHz   |
| Antenna                | 2.4Ghz:3dBi, 5GHz: 3dBi  | 2.4Ghz:3dBi, 5GHz: 3dBi   |
| Spatial Streams        | 2.4GHz: 2x2 MIMO 5GHz: 2x2 MIMO  | 2.4GHz: 4x4 MIMO 5GHz: 4x4 MIMO   |
| Signal Rate            | Up to 574Mbps at 2.4GHz<br>Up to 1201Mbps at 5GHz  | Up to 1148Mbps at 2.4GHz<br>Up to 2402Mbps at 5GHz  |
| Receiver Sensitivity   | 2.4GHz<br>802.11b:-90dBm@11M<br>-98dBm@1M<br>802.11g: -77dBm@54M<br>-93dBm@6M<br>802.11n Ht20: -72dBm@MCS7<br>-92dBm@MCS0<br>802.11n Ht40: -71dBm@MCS7<br>-90dBm@MCS0<br>802.11ax Ht20: -63dBm@MCS11<br>-93dBm@MCS0<br>802.11ax Ht40: -60dBm@MCS11<br>-91dBm@MCS0<br><br>5GHz<br>802.11a: -77dBm@54M<br>-95dBm@6M<br>802.11n Ht20: -75dBm@MCS7<br>-93dBm@MCS0<br>802.11n Ht40: -72dBm@MCS7<br>-91dBm@MCS0<br>802.11ac Ht20: -74dBm@MCS7<br>-93dBm@MCS0<br>802.11ac Ht40: -72dBm@MCS7<br>-91dBm@MCS0<br>802.11ac Ht80: -62dBm@MCS9<br>-88dBm@MCS0<br>802.11ax Ht20: -63dBm@MCS11<br>-93dBm@MCS0<br>802.11ax Ht40: -60dBm@MCS11<br>-90dBm@MCS0<br>802.11ax Ht80: -56dBm@MCS11<br>-87dBm@MCS0 | 2.4GHz<br>802.11b: -85dBm@11M<br>-92dBm@1M<br>802.11g: -72dBm@54M<br>-90dBm@6M<br>802.11n Ht20: -70dBm@MCS7<br>-88dBm@MCS0<br>802.11n Ht40: -68dBm@MCS7<br>-86dBm@MCS0<br>802.11ax Ht20: -60dBm@MCS11<br>-85dBm@MCS0<br>802.11ax Ht40: -56dBm@MCS11<br>-85dBm@MCS0<br><br>5GHz<br>802.11a: -72dBm@54M<br>-92dBm@6M<br>802.11n Ht20: -70dBm@MCS7<br>-90dBm@MCS0<br>802.11n Ht40: -68dBm@MCS7<br>-88dBm@MCS0<br>802.11ac Ht20: -70dBm@MCS7<br>-90dBm@MCS0<br>802.11ac Ht40: -68dBm@MCS7<br>-88dBm@MCS0<br>802.11ac Ht80: -58dBm@MCS9<br>-85dBm@MCS0<br>802.11ax Ht20: -62dBm@MCS11<br>-88dBm@MCS0<br>802.11ax Ht40: -58dBm@MCS11<br>-86dBm@MCS0<br>802.11ax Ht80: -55dBm@MCS11<br>-84dBm@MCS0 |
| Maximum Transmit Power | <23dbm   | <20dbm  |
| Interface              | (2)10/100/1000M Base-T Ethernet ports  | (2)10/100/1000M/2.5G Base-T Ethernet ports  |
| Power Supply           | DC 12V/2A (Not Included)<br>802.3at PoE Supported  | DC 12V/2A (Not Included)<br>802.3at PoE Supported   |
| Power Consumption      | <16W   | <22W  |
| Installation           | Wall/Ceiling Mounting  | Wall Mounting   |
| External Buttons       | reset button (long press for 8 seconds to restore the factory default configuration)   |   |
| Dimensions             | 198mm * 198mm * 41mm   | 198mm * 198mm * 41mm  |
| Environment            | Operating Temperature:<br>-20°C~55°C<br>Storage Temperature:<br>-40°C~70°C<br>Operating Humidity:<br>5%~95% (non-condensing)<br>Storage Humidity:<br>5%~95% (non-condensing)   | Operating Temperature:<br>-20°C~55°C<br>Storage Temperature:<br>-40°C~70°C<br>Operating Humidity:<br>5%~95% (non-condensing)<br>Storage Humidity:<br>5%~95% (non-condensing)  |

| Software Features            |   |
|------------------------------|---|
| Operating Mode               | Fit AP, Fat AP, Repeater, WISP mode   |
| Wireless Function            | Up to 16 SSIDs  |
|                              | Support SSID hiding, Enable/Disable Wireless Radio  |
|                              | RF Parameter setting  |
| Roaming                      | Support Layer 2 roaming   |
| Wireless Security            | Captive Portal Authentication<br>Static blacklist and whitelist<br>Wireless Isolation Between Clients<br>SSID to VLAN Mapping<br>Support 802.1X<br>WPA/WPA2/PSK/WPA/WPA2-Enterprise |
| Routing                      | Support static IP, DHCP, PPPoE Dial-Up  |
| Management                   | Support local management with web<br>Support remote management with Wi-Tek Cloud platform   |
| Platform Management Features | Automatic RF adjustment via the platform<br>Unified configuration via the platform<br>Unified monitoring via the platform   |



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Technical Support



Cloud Management



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