

# Wi-Fi 6 AX 1800 Gigabit PoE Access Point

## Central Management, Multi function, High Speed

### AirCloud TOP-18AX

airlive®



MTK  
Dual Core

Wi-Fi 6  
AX1800

Central  
Management  
Supported

Seamless  
Roaming

AP/Gateway  
Mode

Support  
OFDMA

2 x Giga  
WAN/LAN

Cloud  
Control

FIT/FAT  
Mode

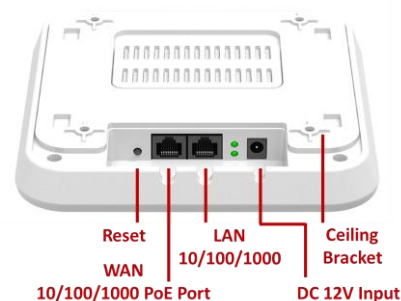
PoE & DC  
input

## Overview

### Multi function High Speed Access Point

The AirLive TOP-18AX is a multi function WiFi6 Access Point which features 1x 1Gbps LAN port and 1x 1Gbps WAN PoE input port. The TOP-18AX supports FIT/FAT Operation mode. Meaning it can work as a standalone access point at home or office, or as an access point which is controlled by an AirLive WLAN Controller like the AirLive WLAN-128GM/64GM for large Enterprises or organizations where central management is preferred.

Choose AP or AP Gateway mode, In AP Gateway mode the TOP-18AX offers the WAN port features like PPPoE and functions like QoS, URL & MAC filtering. In AP mode the TOP-18AX is a standalone default Access Point. The TOP-18AX can also be controlled via AirCloud, Cloud control.



## Features

- WiFi 6 11a/b/g/n/ac/ax compliant
- OFDMA, MU-MIMO
- 2T2R 1800Mbps Wireless High Speed (600Mbps + 1200Mbps)
- 20/40/80Mhz Channel
- Concurrent dual bands
- Seamless Roaming
- 1 x 10/100/1000mbps WAN
- 1 x 10/100/1000mbps LAN
- 802.3af PoE power input (WAN)
- FIT/FAT Operation mode
- AP and AP Gateway Operation Mode
- Cloud Management Support via AirCloud
- AC Controller Support with AirLive WLAN-128GM/64GM
- Up to 8 Multiple SSID
- VLAN Support in AP Mode
- QoS in AP Gateway Mode
- URL/MAC/IP Filtering
- WiFi Timer

### Advanced Management Fit (central management) and Fat (Stand-alone AP) Operation Mode or, Cloud management

The AirLive TOP-18AX offers several different ways to control and operate it.

**Fit mode:** In this mode the Access Point (TOP-18AX) works with an AirLive WLAN Access Controller (WLAN-128GM), the controller is the “brain” of the TOP-18AX Access Point and controls all functions like wireless settings, encryption and more. The Fit mode is used for large enterprise setups where a large number of AP's need to be controlled all at ones. Using the Fit mode in the TOP-18AX and an WLAN Access Controller it will save a lot of the time and difficulties in setup.

**Fat mode:** In this mode the Access Point (TOP-18AX) works as a standalone device with all wireless and encryption functions being setup and controlled within the AP itself. This is more suitable for residents or offices where less AP's are installed. The Fat mode has an AP mode and AP Gateway mode. In Gateway mode the WAN port can be used to connect to a Modem/Router via PPPoE, DHCP or Static IP. In AP Mode the TOP-18AX can be connected to an existing network and work without the WAN port features.

**Cloud Control:** The AirLive TOP-18AX can be controlled via AirCloud, once the AP has been added to the Cloud. It can be controlled from any location. This offers extra benefits when dealing with a large network of Access Points, as local access is not needed, and support can be given from a remote office. Also, multiple levels of control can be given in the Cloud from Admin to only viewer rights. AP's can be added and removed at anytime.



## Wireless Seamless Roaming

Wireless seamless roaming allows devices to switch between different wireless access points without any interruption to their connection. Note that the SSID and wireless password of all the access points should be the same.

It is particularly useful in environments where users need to move around frequently while staying connected to the network, such as in large office buildings, hospitals, and public areas like airports or train stations. To enable seamless roaming, wireless networks use a combination of protocols and technologies, such as 802.11r, 802.11k, and 802.11v, which are supported by the AirCloud ceiling and inwall access points that allow devices to make quick and accurate decisions about which access point to connect to. The overall goal of wireless seamless roaming is to simplify the process of staying connected to a wireless network as the user moves around, without any interruption or loss of connectivity.

Overall, wireless seamless roaming is an important technology that enables users to stay connected to the network while moving around, without any interruption or loss of connectivity. Wireless seamless roaming simplifies the process of maintaining a continuous connection to a wireless network as a device moves from one area to another without any interruption. Here are a few key points to simplify the concept:

**802.11r:** This protocol enables fast handovers between access points by pre-authenticating the device with the next access point before it actually moves there.

**802.11k:** This protocol enables the wireless network to provide more accurate and timely information about the signal strength and capabilities of nearby access points, allowing the device to make better decisions about which access point to connect to.

**802.11v:** This protocol enables the wireless network to provide information about the quality of service (QoS) offered by different access points, allowing the device to choose the best access point based on its needs.



Model	TOP-18AX AX1800 Access Point
<b>Device Interface</b> <ul style="list-style-type: none"><li>• <b>Main Chip:</b> MTK, Dual Core MT7621AT</li><li>• <b>Flash:</b>16MB</li><li>• <b>RAM:</b>256MB</li><li>• <b>Ethernet (LAN):</b> 1 x RJ45 10/100/1000mbps</li><li>• <b>WAN (PoE):</b> 1x RJ-45 10/100/1000mbps</li><li>• <b>WiFi:</b> 802.11b/g/n/n/ac/ax 2T2R(2.4Ghz), 802.11a/n/ac/ax 2T2R (5Ghz)</li><li>• <b>Button:</b> Reset x 1</li><li>• <b>Power Input:</b> 1 x 12VDC or 1 x 48V (802.3af PoE)</li><li>• <b>Antenna Connector:</b> Internal Wireless Antenna 4dBi (2.4/5Ghz) MIMO</li></ul>	<b>Management</b> <ul style="list-style-type: none"><li>• Web-UI, Remote Management, WLAN Controller, Cloud Management System AirCloud</li></ul>
<b>WAN</b> <ul style="list-style-type: none"><li>• <b>WAN:</b> PPPoE, DHCP, Static IP, (Bridge (AP Mode))</li></ul>	<b>DDNS</b> <ul style="list-style-type: none"><li>• Oray</li></ul>
<b>WiFi</b> <ul style="list-style-type: none"><li>• <b>Standard:</b> IEEE 802.11a/b/g/n/ac/ax, 2x2, 20/40/80 MHz channels</li><li>• <b>Functions:</b> Multi-SSID 8 (4 per radio), SSID hidden ,SSID isolation, Band Steering, RF power adjustable, Wi-Fi time on/off to save energy</li><li>• <b>Security:</b> WPA/WPA2PSK-TKIPAES, WPA3PSK-TKIPAES</li><li>• <b>Modulation :</b> OFDMA, 1024QAM</li><li>• <b>Seamless Roaming :</b> 802.11k, 802.11v, 802.11r</li><li>• <b>Wi-fi Advanced:</b> Wireless client isolation</li><li>• <b>Wireless Channel</b><ul style="list-style-type: none"><li>• 2.4G:1~13 (CE Channel) (region dependent)</li><li>• 5.8G: 36~48, 36~64,100~140,149~165 (region dependent)</li></ul></li><li>• <b>Wireless TX Power</b> 2.4G: ≤20dbm, 5.8G: ≤18dbm</li></ul>	<b>Max Concurrent users</b> <ul style="list-style-type: none"><li>• 120</li></ul>
<b>Security</b> <ul style="list-style-type: none"><li>• <b>Filter Rule:</b> URL Filter/Mac Filter/IP Filter</li><li>• <b>URL/MAC/IP filtering:</b> White list/Black List.</li></ul>	<b>Parental Control (Gateway Mode)</b> <ul style="list-style-type: none"><li>• Mac Address Filtering, URL Filtering, IP Filtering</li></ul>
<b>DMZ</b> <ul style="list-style-type: none"><li>• DMZ</li></ul>	<b>AP/AP Gateway Mode</b> <ul style="list-style-type: none"><li>• <b>AP:</b> In this mode, the AP Wireless and Cable Interface are bridging together. Without NAT, Firewall and all network related functions.</li><li>• <b>AP Gateway:</b> In this mode, the WAN page is enabled and PPPoE, DHCP or Static IP can be selected. NAT is enabled and PC's in LAN ports share the IP to ISP through WAN port.</li></ul>
<b>Port Forwarding Rule/Range</b> <ul style="list-style-type: none"><li>• TCP/UDP</li></ul>	<b>VPN Pass Through (Gateway Mode)</b> <ul style="list-style-type: none"><li>• IPsec, PPTP, L2TP</li></ul>
<b>VLAN</b> <ul style="list-style-type: none"><li>• VLAN support SSID Max 4 per Band</li></ul>	<b>Data Statistics</b> <ul style="list-style-type: none"><li>• WAN Down Stream, WAN UP Stream</li><li>• WiFi Analyzer (2.4 and 5Ghz)</li></ul>
<b>Cloud</b> <ul style="list-style-type: none"><li>• AirCloud access support in Gateway/AP Mode</li></ul>	<b>Multiple Language</b> <ul style="list-style-type: none"><li>• English/Spanish</li></ul>
<b>FIT/FAT Operation Mode</b> <ul style="list-style-type: none"><li>• FIT Mode: AP works with AC Controller (Enterprise)</li><li>• FAT Mode: AP works standalone (Home use)</li></ul>	<b>ESD Protection</b> <ul style="list-style-type: none"><li>• ±6KV</li></ul>
	<b>Environment</b> <ul style="list-style-type: none"><li>• Operating temperature : -20°C ~ +45°C</li><li>• Storage Temperature : -40°C ~ +70°C</li><li>• Storage Humidity : 5% ~ 95% (non-condensing)</li><li>• Enclosure : ABS fireproof material</li></ul>
	<b>Standard package of switch</b> <ul style="list-style-type: none"><li>• <b>Product size:</b> 16.8 x 16.8 x 3.2 cm(L*W*H)</li><li>• <b>Package size:</b> 24.5 x 23.5 x 7.5 cm(L*W*H)</li><li>• <b>Product Weight/Package Weight</b> W: 0.7KGs; W: TBDKGs</li><li>• <b>Package content:</b> TBD 1 x Access Point,</li></ul>
	<b>Ordering information</b> <ul style="list-style-type: none"><li>• <b>AirLive AirCloud TOP-18AX</b> 11ax 1800Mbps Gigabit PoE Access Point supports FIT/FAT Mode, AP and Gateway Mode Central and Cloud management supported</li></ul>

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