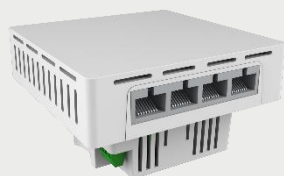# Wi-Fi 6 AX 1800 Gigabit in-Wall PoE Access Point
Including 4 x Gigabit RJ-45 Port

AirCloud inWall-U618AX

airlive®

|				
MTK Dual Core	**Wi-Fi 6 AX1800**	**Central Management Supported**	**Seamless Roaming**	**AP/Gateway Mode**
Support OFDMA	**4 x Gigabit LAN Ports**	**Cloud Control**	**FIT/FAT Mode**	**WAN PoE 802.3af/at input**

Overview

Multi function in-Wall High Speed Access Point

The Airlive inWall-U618AX is a multi function in-Wall WiFi6 Access Point which features 4x 1Gbps Lan port and 1x 1Gbps WAN PoE input port. The inWall-U618AX supports FIT/FAT Operation mode. Meaning it can work as a standalone access point at home or hotel, or as an access point which is controlled by an AirLive WLAN Controller like the AirLive WLAN-128GM/64GM for large Enterprises or organizations were central management is preferred.

Choose AP or AP Gateway mode, In AP Gateway mode the inWall-U618AX offers the WAN port features like PPPoE and functions like QoS, URL & MAC filtering. In AP mode the inWall-U618AX is a standalone default Access Point. The inWall-U618AX can also be controlled via AirCloud, Cloud control.

4 x LAN 10/100/1000

WAN 10/100/1000 PoE Port
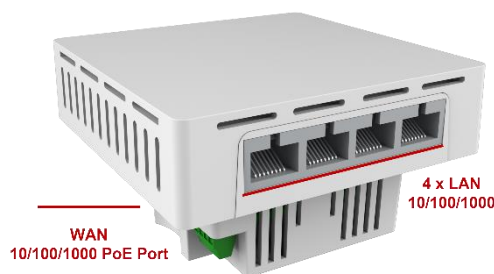
Features

- Wi-Fi 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
- 4 x 10/100/1000mbps LAN
- 802.3af PoE power input (WAN)

- FIT/FAT Operation mode
- In-Wall type, for placement inside a wall socket.
- 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 inWall-U618AX offers several different ways to control and operate it.

Fit mode: In this mode the Access Point (inWall-U618AX) works with an AirLive WLAN Access Controller (WLAN-128GM), the controller is the "brain" of the inWall-U618AX Access Point and controls all functions like wireless settings, encryption and more. The Fit mode is used for large enterprise setups were a large numbers of AP's need to be controlled all at ones. Using the Fit mode in the inWall-U618AX 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 (inWall-U618AX) 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 to connect to a Modem/Router via PPPoE, DHCP or Static IP. In AP Mode the inWall-U618AX can connected to an exciting network and work without the WAN port features.

Cloud Control: The AirLive inWall-U618AX can be controlled via the Cloud, ones 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 direct access is not needed, and support can be giving from a remote office. Also, multiple levels of control can be giving in the Cloud from Admin to only viewer rights. AP's can be added and removed at anytime.
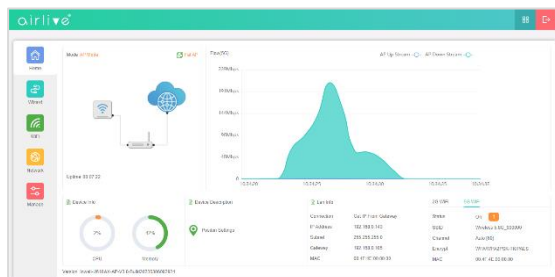
Wireless Seamless Roaming

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 the 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.

Specification

Model	inWall-U618AX AX1800 Access Point

Device Interface

- **Main Chip**: MTK, Dual Core MT7621DAT
- **Flash**:16MB
- **RAM**:256MB
- **Ethernet (LAN)**: 4 x RJ45 10/100/1000mbps
- **WAN (PoE)**: 1x RJ-45 10/100/1000mbps
- **WiFi**: 802.11b/g/n/n/ac/ax 2T2R(2.4Ghz), 802.11a/n/ac/ax 2T2R (5Ghz)
- **Button:** Reset x 1
- **Power Input**: 1 x 48V (802.3af PoE)
- **Antenna Connector**:
  Internal Wireless Antenna 2/4dBi (2.4/5Ghz) MIMO

WAN

- **WAN**: PPPoE, DHCP, Static IP, (Bridge (AP Mode))

WiFi

- **Standard**: IEEE 802.11a/b/g/n/ac/ax, 2x2, 20/40/80 MHz channels.
- **Functions**: Multi-SSID 8 (4 per radio), SSID hidden ,SSID isolation, Band Steering, RF power adjustable, Wi-Fi time on/off to save energy
- **Security**: WPA/WPA2PSK-TKIPAES, WPA3PSK-TKIPAES
- **Modulation :** OFDMA, 1024QAM
- **Seamless Roaming :** 802.11k, 802.11v, 802.11r
- **Wi-fi Advanced**: Wireless client isolation
- **Wireless Channel**
- 2.4G:1~13 (CE Channel) (region dependent)
- 5.8G: 36~48, 36~64,100~140,149~165 (region dependent)
- **Wireless TX Power**
  2.4G: ≤20dbm, 5.8G: ≤19dbm

Security

- **Filter Rule:** URL Filter/Mac Filter/IP Filter
- **URL/MAC/IP filtering**: White list/Black List.

DMZ

- DMZ

Port Forwarding Rule/Range

- TCP/UDP

VLAN

- VLAN support SSID Max 4 per Band

Cloud

- AirCloud access support in Gateway/AP Mode

FIT/FAT Operation Mode

- FIT Mode: AP works with AC Controller (Enterprise)
- FAT Mode: AP works standalone (Home use)

Management

- Web-UI, Remote Management, WLAN Controller, Cloud Management System

DDNS

- Oray

Max Concurrent users

- 256

Parental Control (Gateway Mode)

- Mac Address Filtering, URL Filtering, IP Filtering

AP/AP Gateway Mode

- **AP**: In this mode, the AP Wireless and Cable Interface are bridging together. Without NAT, Firewall and all network related functions.
- **AP Gateway:** 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.

VPN Pass Through (Gateway Mode)

- IPsec, PPTP, L2TP

Data Statistics

- WAN Down Stream, WAN UP Stream
- WiFi Analyzer (2.4 and 5Ghz)

Multiple Language

- English/Spanish

ESD Protection

- ±6KV

Environment

- Operating temperature: -20°C ~ +45°C
- Storage Temperature: -40°C ~ +70°C
- Storage Humidity: 5% ~ 95% (non-condensing)
- Enclosure: ABS fireproof material

Standard package of switch

- **Product size/Package Size**
  8.6 x 8.6 x 4.5 cm/ 12.0 x 11.0 x 6.5 cm
- **Product Weight/Package Weight**
  W: 0.25KGS; W: 0.3KGS
- **Package content**:
  1 x inWall Access Point
- **Carton Size:** 20 x 16 x 15 cm, 20pcs/1ctn
- **Carton Weight:** G.W=6KGS

Ordering information

- **AirLive AirCloud inWall-U618AX**
  11ax 1800Mbps Gigabit inWall PoE Access Point supports FIT/FAT Mode, AP and Gateway Mode Central and AirCloud management supported