



# Indoor Dual-Band AX3000 Ceiling Mount WIFI 6 WIRELESS ACCESS POINT

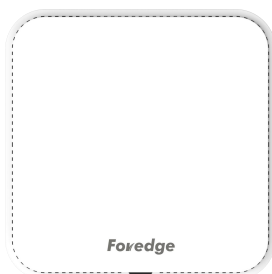
## W618AP V2

### Product Brochure

Shenzhen Fengrunda Technology Co., Ltd

## Product Introduction:

- W618AP V2 Wi-Fi6 3000M dual-band panel AP is a high-performance ceiling AP specially launched by FengrunDa for small and medium-sized offices, commercial complexes, hotels , and other scenarios. The device supports 802.11a/b/g/n/acWave1/aCWave2/ax protocols, can work in 2.4GHz and 5GHz frequency bands at the same time, supports MU-MIMO dual-stream technology; supports 802.3at standard PoE and local 12V DC power supply; built-in omnidirectional antenna, in an unobstructed environment, it can cover a circular area with a radius of 35 meters; supports Wi-Fi6160M bandwidth. The whole machine provides an access rate of 2976Mbps, and Gigabit wireless speed makes performance no longer a bottleneck.
- It supports various installation methods such as placement, ceiling mounting, wall mounting, and hugging, which improves the versatility of installation. At the same time, the bracket adopts push -type installation, which simplifies the installation steps, reduces the installation difficulty, and greatly improves the installation experience of the equipment.
- Users can manage devices locally or remotely through APOLLO cloud platform , FengrunDa APP , device WEB, etc., and can also share and host the network to others for collaborative management, thus achieving simpler, easier to use, safer and more convenient enterprise network operation and maintenance.



## Key Features:

### High-Speed Dual-Band Wireless:

The device supports 2.4GHz and 5GHz dual-band communications, supports Wi-Fi 6160M bandwidth, and provides an access rate of up to 2976Mbps for the entire device. It can provide the terminal with a 5GHz frequency band with less interference, wider channels, and faster speeds, providing a high-speed wireless network experience.

### Smart Roaming :

Support 802.11K/V /R protocol, solve roaming stickiness, improve roaming signal strength, shorten roaming switching time, reduce packet loss rate , and provide users with a seamless coverage network environment.

### Wireless load balancing:

- Support client-based load balancing. When an access point is overloaded, load balancing can enable the terminal to connect to other access points, enhancing network reliability and network experience.
- Supports load balancing based on transmission rate to ensure that all user devices can obtain sufficient bandwidth, reduce the problem of large network delays and low rates for other users caused by excessive bandwidth occupied by some access points, and optimize user experience;

## Key Features:

### RF Tuning :

- By identifying channel interference, optimizing spectrum usage, reducing signal interference, and improving overall network performance;
- Support 5G- first spectrum navigation, allowing devices to preferentially connect to 5G frequency bands with less interference and larger bandwidth ;
- Dynamically adjust the transmit power to reduce coverage interference caused by excessive AP power; optimize the transmit power to ensure wide network coverage and sufficient signal strength.
- In high-density wireless device environments such as office buildings, schools, and conference centers, RF tuning can optimize the connections of a large number of devices and maintain good network performance.

## Specifications:

### Hardware specifications:

Model Name		W618AP V2
Standards and protocols	wireless	5GHz: IEEE 802.11ax, IEEE 802.11ac, IEEE 802.11n, IEEE 802.11a 2.4GHz: IEEE 802.11ax, IEEE 802.11ac, IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
	wired	IEEE802.3i, IEEE802.3u, IEEE802.3ab
Operating frequency		2.4 GHz & 5 GHz
Signal rate		2.4 GHz : up to 573.5 Mbps 5 GHz : Up to 2402 Mbps
Modulation		IEEE 802.11b: CCK, QPSK, BPSK IEEE 11g/a: OFDM IEEE 11n: QPSK, BPSK, 16-QAM, 64-QAM IEEE 11ac : BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM IEEE 11ax : BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM
Transmit power		2.4 GHz : $\leq 22$ dBm 5 GHz : $\leq 21$ dBm
Maximum supported wireless access		256
Indicator Lights		System lights
interface		1 10/100/1000 Mbps upstream LAN port ( RJ 45) 1 10/100/1000 Mbps Downstream LAN port ( RJ 45)
button		1*Reset button
antenna		2 single-band 2.4G 1.9 dBi Built-in omnidirectional antenna; 2 single-band 5G 2.7 dBi Built-in omnidirectional antenna
power supply		Support IEEE 802. at standard PoE input and DC 12V/1.5A
Maximum power consumption		< 15W
Product size		86mm*86mm*42.8mm (height of the part outside the wall is 10.8mm)
Work Environment		Normal operating temperature: -10°C to 40°C

# Specifications:

## Software Specifications - WEB :

Main modules	Function
Condition Monitoring	Device Status
	Terminal List
	Wireless Services
Network Configuration	LAN Settings
Wireless Management	WIFI Basic Settings
	WIFI ADVANCED SETTINGS
	Access Control
Senior Management	Network diagnostic tools
	Hardware Acceleration
System Management	Configuration Management
	Account Management
	System Upgrade
	Time settings
	System log

# Specifications:

## Software Specifications - System:

Main modules	Function
802.11ax	802.11ax
	11AX switch
	Support 1024-QAM
	Support OFDMA , add subcarrier
	Support OFDMA , multiple access technology
	DL MU MIMO
	UL MU MIMO
	SR spatial multiplexing technology
roaming	802.11K
	802.11V
	802.11R
	Roaming Threshold Adjustment
Wireless Security	Static whitelist
	Static Blacklist
	Access Authentication
	Encryption mode ( WAP-PSK/WAP2-PSK/WPA-WAP2-PSK )
AP Portal	One-click authentication
	SMS authentication
	Account and password authentication
	User Management
	Blacklist and whitelist settings

# Specifications:

## Software Specifications - System:

Main modules	Function
WLAN QoS	WMM
	Fair Scheduling
	User-based wireless speed limit
User Experience	Kick weak signal users offline
	Support STA RSSI access threshold
	Automatic channel selection
	Radio access number limit
RF characteristics	RF Tuning
	Automatic channel adjustment
	Automatic power adjustment
	STAs have priority access to the 5G frequency band
	Beamforming
	Timer switch RF
Load Balancing	Client-based load balancing
	Load balancing based on wireless transmission rate
Value-added technology	LLDP



## Networking applications:

