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### Vonets VAP11AC with Fan

# VONETS Dual Band AC1200 WiFi Bridge/Router/Repeater

## INSTRUCTION MANUAL

### Product Overview

The VONETS VAP11AC is a versatile industrial-grade mini dual-band (2.4GHz/5GHz) WiFi device designed to function as a WiFi Bridge, Wireless Repeater, or Router. It facilitates network connectivity for various Ethernet-enabled devices by converting WiFi to wired Ethernet or vice-versa. Its compact design and multiple power supply options make it suitable for diverse applications, including surveillance systems, IoT devices, and extending network coverage.

VAP11AC

**1200Mbps**

# **Dual band WiFi Bridge Repeater/Router**

**Faster speed Less interference**



Image: The VONETS VAP11AC device, highlighting its dual-band 1200Mbps capability as a WiFi Bridge, Repeater, and Router.

## **Key Features**

- **Dual Band WiFi Connectivity:** Supports 2.4GHz (300Mbps) and 5GHz (900Mbps) for a combined theoretical rate of 1200Mbps, offering strong anti-interference and improved transmission rates.
- **Multiple Operating Modes:** Functions as a WiFi Router, WiFi Signal Repeater, WiFi AP Hotspot, or WiFi Bridge (Ethernet to WiFi or WiFi to Ethernet conversion).
- **Wide Voltage Power Supply:** Compatible with DC5V-24V power input, including USB/DC power cable and industrial DC connector options.
- **Smart Cooling Fan:** Features an intelligent automatic start and stop cooling fan for enhanced heat dissipation and stable operation, activating after 5-10 minutes of normal use.
- **Compact Design:** Mini industrial design suitable for various environments.
- **Built-in Antennas:** Equipped with 2T2R dual-band antennas for wireless signal amplification and extended coverage.



Image: Illustration of wireless signal amplification for full house WiFi coverage, demonstrating the device's ability to extend network range.

## What's in the Box

Upon unboxing, please verify that all the following components are included:

- VONETS VAP11AC WiFi Bridge/Repeater/Router Unit
- Ethernet RJ45 Cable
- USB/DC Power Cable
- Industrial DC Connector

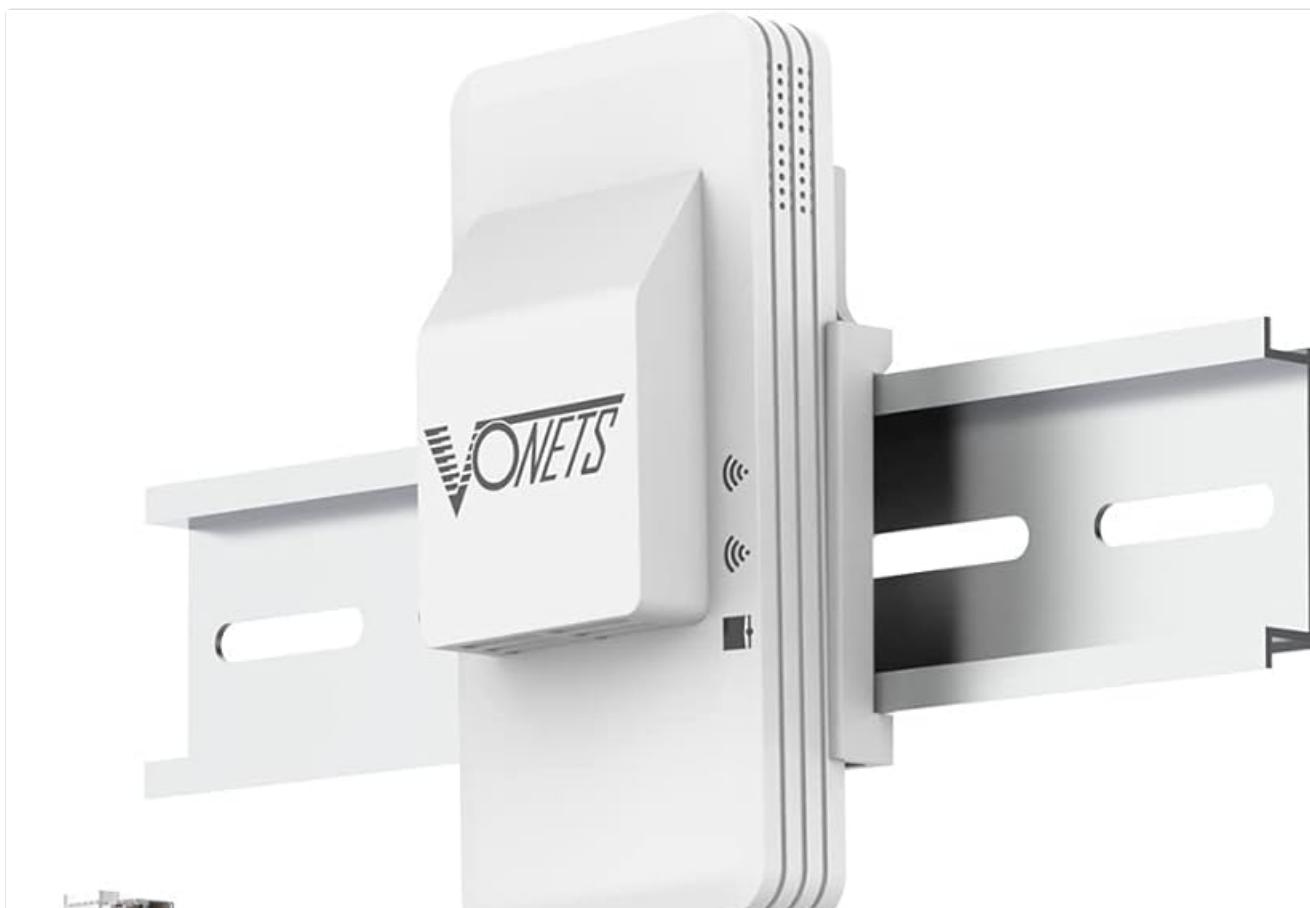




Image: The VONETS VAP11AC device shown with its accompanying Ethernet cable, USB power cable, and industrial DC connector.

## Setup and Installation

This section provides general guidance for setting up your VAP11AC device. For detailed configuration steps, please refer to the official configuration video or the comprehensive user manual provided by VONETS.

- 1. Power Connection:** Connect the device to a power source using the provided USB/DC power cable or industrial DC connector. The device supports wide voltage input from DC5V to 24V.
- 2. Initial Connection:** For initial configuration, it is recommended to connect the VAP11AC directly to your computer's Ethernet port using the supplied RJ45 cable.

3. **Accessing Configuration Interface:** Once powered on and connected, access the device's web-based configuration interface via a web browser. The default IP address and login credentials can typically be found on the product packaging or in the quick start guide.
4. **Mode Selection:** Select your desired operating mode (Bridge, Repeater, Router, or AP) within the configuration interface.
5. **Network Configuration:** Follow the on-screen prompts to configure network settings specific to your chosen mode, such as WiFi network selection, password entry, or IP settings.

## 1200Mbps transmission rate Wide bandwidth and fast speed

Wide power input   Transparent transmission

Two-stage overvoltage protection

Measured 200 meters high-definition video transmission, Video surveillance partner

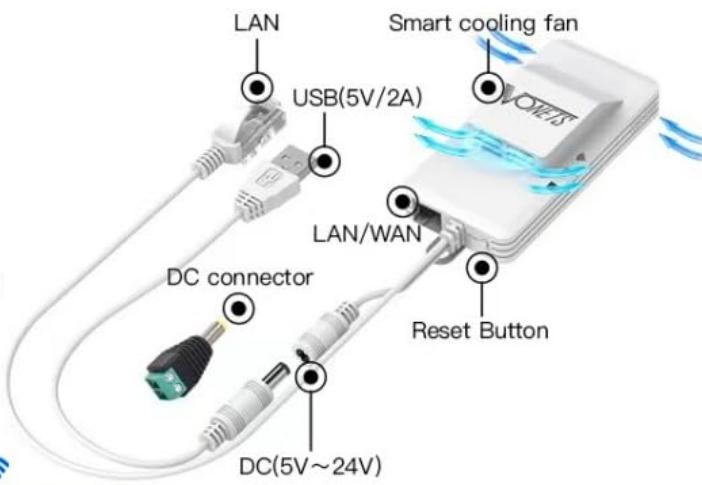


Image: Diagram illustrating the various ports and connections on the VONETS VAP11AC, including LAN, USB, DC input, and the reset button.

## Operating Modes

The VAP11AC supports several operating modes to suit different networking needs:

### 1. WiFi Bridge Mode

In Bridge mode, the device acts as a wireless Ethernet adapter, converting a WiFi signal into a wired Ethernet connection. This is ideal for connecting wired devices (e.g., DVRs, surveillance cameras, desktop PCs, printers) to a wireless network without requiring them to have built-in WiFi capabilities.



Image: Diagram showing the VAP11AC in WiFi Bridge mode, connecting a wired computer to a wireless router.

## 2. WiFi Repeater Mode

As a Repeater, the VAP11AC extends the range of an existing WiFi network. It receives the wireless signal from your main router and re-transmits it, effectively expanding your WiFi coverage to areas with weak or no signal.



Image: Diagram illustrating the VAP11AC in WiFi Repeater mode, extending the wireless signal within a house.

## 3. WiFi Router Mode

In Router mode, the VAP11AC can establish a new wireless network. This mode is suitable for scenarios where you need to share an internet connection (e.g., from a modem) wirelessly to multiple devices.



Image: Diagram showing the VAP11AC configured as a WiFi Router, providing internet access to various devices.

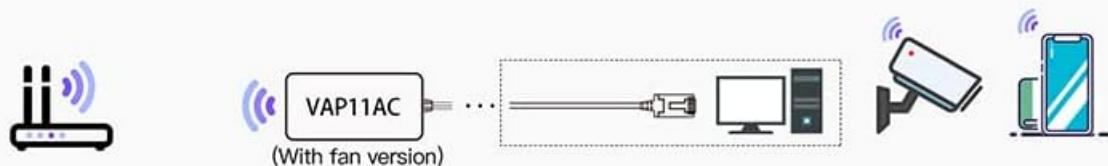
## 4. AP (Access Point) Mode

AP mode allows the VAP11AC to convert a wired network connection into a wireless access point. This is useful for adding wireless capabilities to an existing wired network, enabling wireless devices to connect to the internet without dialing.

#### Application 1

## Repeater/Bridge Application

Expand existing WiFi network, easily realize network expansion, and convert WiFi to RJ45 network cable, connect a computer and attendance machine to the network, and used for desktop computers, printers, surveillance videos, attendance machines, etc.



#### Application 2

## AP Application

AP application implements wireless access function of wired network. Suitable for the scene where the network cable is connected to the computer and can access the Internet without dialing.



#### Application 3

## Router Mode

Routing mode implements wireless access function for dial-up access. Suitable for scenes that require dial-up access.



Image: Comprehensive diagram illustrating Repeater/Bridge Application, AP Application, and Router Mode, showing how the VAP11AC integrates into different network setups.

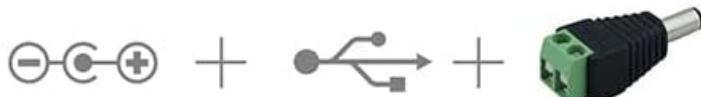
## Power Supply Options

The VAP11AC offers flexible power input options to accommodate various installation environments:

- **DC 5V-24V Input:** The device supports a wide voltage range, typically powered by 5V/2A or 12V/1A.
- **USB Power:** Can be powered via a standard USB port using the provided USB/DC power cable.
- **Industrial DC Connector:** An industrial DC connector is included for more robust power connections in industrial or specialized settings.

The device features two-stage automatic overvoltage protection, with an upper limit of 27V, ensuring stable and safe operation.

**Three kinds of power supply methods**  
User can use DC power or USB or Industrial wiring power supply



Wide voltage power supply DC5V–24V



Image: Visual representation of the three power supply methods: DC barrel jack, USB, and industrial wiring terminal.

## Smart Cooling Fan Operation

The VAP11AC is equipped with a smart cooling fan designed to manage heat dissipation efficiently. Due to its mini

size and high power capabilities, the device generates heat during operation. The integrated fan automatically starts and stops as needed to maintain optimal operating temperature and ensure stable performance.

- The fan typically activates after 5-10 minutes of continuous normal operation.
- This intelligent control helps prevent overheating and prolongs the device's lifespan.

## Typical Applications

The versatility of the VAP11AC makes it suitable for a wide range of applications, particularly where wired network access is challenging or wireless extension is required:

- **Surveillance Systems:** Connect DVRs and IP cameras wirelessly to your network.
- **Industrial Automation:** Integrate electronic scales, attendance machines, and other IoT devices into a wireless network.
- **Office & Home Networking:** Provide network access to desktop computers, printers, and other wired devices in locations without Ethernet drops.
- **Remote Connectivity:** Ideal for scenarios like connecting devices in garages, warehouses, or outdoor areas where running Ethernet cables is impractical.

# Wireless Monitoring Application Diagram

The best solution of remote video surveillance by using VAP11AC(With fan version) **point to point** or **multipoint wireless connectivity**

## Video surveillance applications

Solution one Camera---Bridge---Recorder---Monitor



Solution Two Camera 1,2,3---Bridge

Bridge---Recorder---Monitor



Solution Three

Camera 1,2,3---Switch-Bridge

Bridge---Recorder---Monitor



Image: Diagram illustrating various wireless monitoring application solutions, including point-to-point and multipoint wireless connectivity for surveillance cameras and DVRs.



Image: A collage of various devices that can be connected using the VAP11AC, including IoT gateways, electronic scales, printers, PCs, monitoring cameras, and medical instruments.

## Specifications

Attribute	Detail
Product Model	VAP11AC with Fan
Product Dimensions	3.7 x 1.77 x 0.59 inches
Item Weight	2.82 ounces
Wireless Communication Standard	5 GHz Radio Frequency, 802.11a/b/g/n/ac, 2.4 GHz Radio Frequency
Data Transfer Rate	900 Megabits Per Second (5GHz), 300 Megabits Per Second (2.4GHz)
Frequency Band Class	Dual-Band
Special Features	WiFi to Ethernet, Bridge/Repeater Mode, Access Point Mode, Ethernet to WiFi bridge, Smart Cooling Fan
Power Supply	DC5V-24V (typical 5V/2A or 12V/1A)
Manufacturer	Shenzhen HouTian Network Communication Technology Co., Ltd.
Country of Origin	China

## 1200Mbps Transmission rate

### Dual frequency concurrency

### Faster speed Less interference

11AC dual band technology, provide 300Mbps (2.4G) and 900Mbps (5G), support 2.4GHz and 5GHz Wireless transmission protocol, the transmission rate and stability of the wireless connection will be faster and more stable and effectively avoid signal interference in the frequency band.



Image: Diagram illustrating the 1200Mbps dual-frequency concurrency, showing 300Mbps for 2.4GHz and 900Mbps for 5.8GHz bands.

## Troubleshooting

If you encounter issues with your VONETS VAP11AC, consider the following common troubleshooting steps:

- No Power/Indicator Lights Off:** Ensure the power cable is securely connected and the power source (USB port or DC adapter) is functional. Try a different power source if available.
- Cannot Access Configuration Page:**
  - Verify your computer is directly connected to the VAP11AC via Ethernet.
  - Check your computer's IP settings to ensure it's on the same subnet as the device's default IP (e.g., 192.168.254.x if device is 192.168.254.254).
  - Try resetting the device to factory defaults (refer to the manual for reset button location and procedure).
- No Internet Connection in Bridge/Repeater Mode:**

- Confirm the VAP11AC is successfully connected to your main router's WiFi network. Check the WiFi connection status lights.
- Ensure the WiFi password entered during configuration is correct.
- Check the signal strength between the VAP11AC and your main router. Relocate the device if the signal is weak.

- **Slow Speed/Intermittent Connection:**

- Minimize physical obstructions (walls, large appliances) between the VAP11AC and your main router/connected devices.
- Consider interference from other 2.4GHz or 5GHz devices.
- Ensure the smart cooling fan is operating correctly to prevent performance degradation due to heat.

For more specific issues or advanced configurations, please consult the detailed user manual or the official configuration video. You can also contact VONETS customer support for assistance.

## Warranty and Support

VONETS products are designed for reliability and performance. For information regarding product warranty, please refer to the documentation included with your purchase or visit the official VONETS website.

For technical support, configuration assistance, or any inquiries, please contact VONETS customer support:

**Email:** [skyfoxcn@vip.163.com](mailto:skyfoxcn@vip.163.com)

**Official Website:** [www.vonets.com](http://www.vonets.com)

When contacting support, please have your product model (VAP11AC with Fan) and any relevant purchase information ready.