

1stWAVE Quick Installation Guide AP3+



1ST-AP3-PLUS

Introduction

This product provides multiple applications with AP, AP Bridge and AP Repeater. You may use the Access Point to build up the network between buildings wirelessly. Moreover, this access point supports Wireless Distribution System (WDS) which enables you to extend the wireless network without any wired backbone, large areas are able to be covered and wiring is not necessary.

The product supports both WEP and IEEE 802.1x port-based network access control functions to consolidate the wireless network security. Based on the IEEE 802.1x the product can not only use a Remote RADIUS Server to authenticate the wireless stations, but also utilize a built-in RADIUS Server that allows users being authenticated through the Access Point itself. The product's built-in RADIUS Server can be the authentication server for other wireless devices.

Features

- Complies with the IEEE 802.11b (DSSS) 2.4GHz specification.
- High data rate 11, 5.5, 2 and 1Mbps network speed.
- Seamlessly integrate wireless and wired Ethernet LAN networks.
- Supports building-to-building bridging.
- WDS enables wireless repeater and AP mode work simultaneously.
- Auto rate fallback in case of obstacles or interferences.
- Provide 64/128-bit WEP Data Encryption function to protect the wireless data transmissions.
- Supports IEEE 802.1x, enabling enhanced WLAN security.
- Built-in RADIUS authentication server based on the IEEE 802.1x standard.
- Built-in DHCP server supports auto IP addresses assignment.
- Supports Web-based configuration.

Specifications

- Standards: IEEE 802.11b (Wireless), IEEE 802.3 (Wired)
- Data Rate: 11/5.5/2/1Mbps auto fallback
- Security: 64/128-bit WEP Data Encryption, IEEE 802.1x
- Frequency Band: 2.400~2.4835GHz (Industrial Scientific Medical Band)
- Modulation: CCK@11/5.5Mbps, DQPSK@2Mbps and DBPSK@1Mbps
- Radio Technology: Direct Sequence Spread Spectrum (DSSS)
- Antenna: External detachable dipole antenna (with TNC male connector)
- Connectors: 10Mbps RJ-45 x 1
- Power: 12VDC, 1A
- Transmit Power: 15dBm (Typical)
- LEDs: Power, LAN Link/Activity, Wireless Link/Activity

- Dimension: 33(H) x 188(W) x 135(D) mm
- Temperature:
 - Operating: 32~131°F (0~55°C)
 - Storage: -4~158°F (-20~70°C)
- Humidity: 0-90% (Noncondensing)
- Certification: FCC, CE

Physical Description

Front Panel

On the Access Point's front panel there are LED lights that inform you of the Access Point's current status. Below is an explanation of each LED.

LED	Color	Status	Description
Power	Green	Lit	Power is supplied.
		Off	No Power.
Wireless Link/Activity	Green	Flash	Antenna is transmitting or receiving data.
		Off	Antenna is not transmitting or receiving data.
LAN Link/Activity	Green	Flash	A valid link is established.
		Flickering	Data packets are received.
		Off	No link is established.

Side Panel

Access Point's connection ports are located on the side panel. Below is the description of each connection port.



- Antenna Connector

This round connection is standard TNC male connector where any antennas with TNC connector can connect to the Access Point. The Default-Connector is marked with a red dot. It is the right antenna connector when looking from above.

- DC Adapter Port

Insert the power jack of the power adapter into this port.

- LAN Port (RJ45, 10BaseT)
- Reset

The Reset button allows you to do one of two things.

- 1) If problems occur with your Access Point, press the reset button with a pencil tip (for less than 4 seconds) and the Access Point will re-boot itself, keeping your original configurations.
- 2) If problems persist or you experience extreme problems or you forgot your password, press the reset button for longer than 4 seconds and the Access Point will reset itself to the factory default settings (warning: your original configurations will be replaced with the factory default settings !!)

1. Connect the Wireless LAN Access Point to your router, hub or switch.

Connect one end of standard UTP cable to the Access Point's LAN Port and connect the other end of the cable to a switch, a router or a hub.

Note: If the WDS function is enabled, it is not necessary to connect the Access Point to your wired LAN network. Only one Access Point should be connected to the wired LAN network in the WDS Link network.

2. Connect the AC Power Adapter to the Wireless LAN Access Point's Power Socket.

Only use the power adapter supplied with the Access Point. Using a different adapter may damage the product.

The Hardware Installation is complete.

Getting Started

This Access Point provides web-based configuration tool allowing you to configure from wired or wireless stations.

Follow the instructions below to get started configuration.

From Wired or Wireless Station

Make sure your wired or wireless station is in the same subnet with the Access Point.

The default IP Address and Sub Mask of the Access Point is:

Default IP Address: 192.168.2.1

Default Subnet: 255.255.255.0

Default SSID: default

Default WEP: without

Login: admin

Password: 1234