

APPLICATION NOTE

APNUS014 Ethernet AIRPACK The easy bridging solution with two AirLink-V2

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PRINCIPLE AND CONCEPT OF ETHERNET AIRPACK

The concept of AIRPACK Ethernet is to provide a secure wireless solution, fast and easy to install, to create a wireless bridge between two Ethernet devices, or between two LANs, simply by programming two Airlink_v2 using the configuration files provided



The proposed configuration is as follows

- 802.11a+n mode (5GHz band)
- Automatic channel selection among channels 36, 40, 44, 48 (HT20)
- SSID acksys
- Security **WPA2**
- AP on 192.168.1.253, Client on 192.168.1.252

BEFORE STARTING

System requirement

- A computer running Windows, with an Ethernet port
- An internet WEB browser
- Two Airlink_V2

Download <u>WaveManager</u> and the file Ethernet_Air-PACK_US.zip from ACKSYS Web site (<u>http://www.acksys.com</u>)

WaveManager is the administration software that will allow you to download in the products the two configuration files contained in the ZIP.

STEP1 CLIENT CONFIGURATION

The default address of the Airlink-v2 is **192.168.1.253**. Set the network interface of your PC to a compatible address, for example **192.168.1.10**

You can then connect one of the Airlink-v2 on your PC and then run WaveManager





Follow the steps below:

COMMUNICATIONS & SYSTEMS	nurc	Mana								
≡	Products Roles	Dashboard Identif	Serial	Firmware	Version	IP Address	Description			_
Product search Product search Product search	AirLink	00001AD3	18266089	Setup Validate product Validate configuration	2 14.5.1	192.168.1.253	User-definable			
Database			b	Details Refresh Delete						
	Role	Radi	o C	Mode	SSIE) RSSI	dBm	Security	BSSID A	ssocia.

- a. Find your device in the **Products** tab
- b. Select it using the right mouse button and click on Details

	PRODUCT DETAILS						
ation P P	Discovery date Last connection Validate I	AirLink S/N 18266089 Monday, February 18, 2019 - 4:03:22 PM Wednesday, February 20, 2019 - 4:46:50 F Product Validate Configuration	IP Address Mask Gateway Group Description M Latitude	192.168.1.253 It (255.255.255.0 Firmwar 0.0.0 Version User-definable Longitude racking Ping	(00001AD39809 2 E2148.AC.1 1 3.14.5.1 2 E2148.AC.1 2		
		Type Lab	el MAC address		Status		
	1	WIFI Wi	Fi 00:09:90:00:E0:78	F	Disable		
	2	LAN L	AN 00:09:90:00:E0:80	0	Uj		
R	oles/Details						

c. On PRODUCT DETAILS menu, click on Configuration file

Configuration File		×
	PRODUCT CONFIGURATION FILE	
Management	From File C:\Ethermet-AirPacK\US config\AIRPACK-CLI-US.bin From Archive Upload to Product Download from Product	

- d. Click on From File
- e. Click on the button and find on your PC the configuration file AIRPACK-CLI-US.bin extracted from the ZIP
- f. Click on Upload to Product
 - **Client** is configured and reboot. The client IP address is now **192.168.1.252**.



STEP 2 AP CONFIGURATION

Disconnect the client from the PC and connect the second Airlink-V2. Repeat steps **a** to **f** from the previous section, using the configuration file **AIRPACK-AP-US.bin**



AP is configured and reboot. The IP address of the AP remains **192.168.1.253**

VERIFICATION

In **WaveManager**, select **Dashboard tab**, and take a look at the status of the Access Point. If all is correct, the Client appears associated to the Access Point

THE OPTIONAL CONFIGURATION

If you wish, you can change some configuration settings such as Wi-Fi channel, SSID or security mode, with the help of **WaveManager**

For example, if you want to change the SSID:

- > For convenience, apply the changes at first on the remote unit.
- > Select the unit in the **Products tab** and click on **Setup**.
- Select **Wi-Fi tab** and make your change (a)
- Click on Apply. (b)

Setup					×
			UP		
Apply	Model	Identification	IP Address	Description	IP Address Wi-Fi Firmware
b	AirLink	00001AD3C17D	192.168.1.252	User-definable	SSID Change Old acksys New Security mode New Key
					Channel
					Old New
					NEW

Once the remote unit is configured don't forget to configure the other device

