## 123 Fast Installation Guide The LP-1520ai Radio by LanPro in WDS Mode

LP1520ai\_M123\_ENB01W



# 123 Fast Installation Guide The LP-1520ai Radio by LanPro in WDS Mode

#### This fast installation guide will help you easily install your device.

#### Please check the box contents and physical installation as shown in this list:

- LP-1520ai Radio.
- LP-PoE150 PoE Power Injector.
- AC power cable.

#### Physical connection

- Please connect the UTP cable carrying the Data and Power to the Radio port coming from the PoE Injector port labeled Power+Data.
- Connect a 568a or 568b Cat 5e patchcord from the LP-PoE150 port labeled: DATA to the Switch. In case you want to configure it from a computer, please use a cross-connect cable.

#### Logic configuration

3.1 Please go to your network card properties as shown in figure 1 and configure the IP Protocol to obtain the IP address automatically as shown in figure 2.

eneral Advanced	General Alternate Configuration
Connect using: Imp Inte(R) PR0/1000 MT Mobile Conne Configure	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
This connection uses the following items:	Obtain an IP address automatically
ST NWLink IPX/SPX/NetBIOS Compatible Transport Prot	O Use the following IP address:
AEGIS Protocol (IEEE 802.1x) v3.0.0.8	IP address:
'S" Internet Protocol (TCP/IP)	Subnet mask:
< >	Default gateway:
Install Uninstall Properties	
Description	<ul> <li>Obtain DNS server address automatically</li> </ul>
Transmission Control Protocol/Internet Protocol. The default	O Use the following DNS server addresses:
across diverse interconnected networks.	Preferred DNS server:
	Alternate DNS server:
Show icon in notification area when connected	
Trongy the where one connector risk initiated of the connectivity	Advanced

Figure 1

Figure 2

3.2 Please open the browser of your preference and search the following IP address: 192.168.1.254 as shown in figure 3. The configuration window will pop-up. No User or Password will be needed at this time. Note: remember to select a new user name and password in order that no one else can Access the configuration of the equipment.

C WLAN	AP WebUI - Windows Internet Exp	plorer	
$\odot$	▼ € 192.168.1.254		~
* *	C WLAN AP WebUI		
		Figure 3	

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3.3 You should now define the mode of functionality:

- WDS: when you want to setup a link between two(2) or more points (PtP or PtMP).
- WDS+Client: when you want to create a link between two(2) or more points (PtP or PtMP) and accept cliente connections.
- AP: the AP mode is used to extend your current LAN to a WLAN.
- Client: Mode in which the AP will be a Client of a WLAN to join to geographically separated LANs or as a Client of a WLAN in which a WLAN Network card doesn't have enough coverage.

3.4 In the window shown in figure 4, you must disable the DHCP service and change the IP address. For doing this, please select the option: TCP/IP Settings, LAN Interface, change the IP address as per your convenience, select DHCP and Disabled. Select Apply Changes to confirm the changes.

SLANPRO	LP-1520ai High Power AP.	www.lan.PRODUCTS.COM
Site contents: Setup Wizard Operation Mode Wireless Basic Settings Advanced Settings Advanced Settings Access Control WDS settings Site Survey WDS settings WDS	LAN Interface Setup         This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP addresss, subnet mask, DHCP, etc         IP Address:       192 168 1254         Subnet Mask:       255 255 255 0         Default Gatemay:       30,0.0         DHCP:       Server         Disabled       - 192 168 1 200         Show Client       Client         Domain Name:       Disabled         S02.1d Spanning Tree:       Disabled         Oppopp00000000       00000000000	www.un.products.com
	Apply Changes Reset	

Figure 4

3.5 Please go to your NIC card as shown in figure 5 and then in figure 6 configure the IP protocol so that the IP address is within the equipment range. In this example, the address must lie inside the segment 192.168.1.x. where x must be different to 254 because it is the IP address of the LP-1520ai.

Connect using:	You can get IP settings assigned this capability. Otherwise, you ne the appropriate IP settings.	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	
This connection uses the following items:	Obtain an IP address auton	natically	
*** NWLink IPX/SPX/NetBIOS Compatible Transport Prot	<ul> <li>Use the following IP address</li> </ul>	s:	
AEGIS Protocol (IEEE 802.1x) v3.0.0.8	IP address:	192.168.1.1	
'3" Internet Protocol (TCP/IP)	Subnet mask:	255 . 255 . 255 . 0	
< >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Default gateway:	192.168.1.254	
Install Uninstall Properties	O Obtain DNS server address	automatically	
Transmission Control Protocol/Internet Protocol. The default	O Use the following DNS serv	ver addresses:	
wide area network protocol that provides communication across diverse interconnected networks.	Preferred DNS server:	192.168.1.254	
Show icon in notification area when connected	Alternate DNS server:		
Notify me when this connection has limited or no connectivity		Advanced.	

Figure 5

Figure 6

Please open your browser and place the address: 192.168.1.254. Then, the configuration window will pop-up. No User or Password will be needed at this time. Note: remember to select a new user name and password in order that no one else can Access the configuration of the equipment.



### Configuration of the different modes

### 4.1 In figure 8,

Mode: WDS: Select option: Basic Settings, also select: Mode WDS, the desired channel number. Note: It is important to mention that in PtP and PtMP links the channel must be common to all of them. Once changes have been selected, select: Apply Changes to save the changes made.

SLANPRO	LP-1520ai High Power AP.	WWWLAN-PRODUCTS.COM
Site contents: Setup Wizard Operation Mode Wireless Advanced Setup wireless base Security Access Control WDS settings Site Survey VPS LAN Interface WANN Interface Firewall Management.	Wireless Basic Settings This page is used to configure the parameters for wireless LAN clients which may connect to prover Access Point. Here you may change wireless encryption settings as well as wireless network parameters. Configuration Disable Wireless LAN Interface Band: 24 GHz (B-G)  WDS WDS WIDS Limba Strucchre SSID: (P-1520a) Channel Number: SSID: (P-1520a) Channel Number: Saseciated Clients: Show Active Clients Saseciated Clients: Same Universal Repeater Mode (Acting as AP and client simultaneouly) SSD of Extended Interface:	WWWWWWFROULDS.COM
	Apply Changes Reset	



4.2 As shown in figure 9, an Alert will pop-up to notify you that in WDS mode the WPS will be disabled, then select **OK**.

SLANPRO		LP-1520ai High Power AP.	www.an-products.com
Site contents: Setup Wizard Operation Mode Wireless Basic Settings	Wireless Basic S This page is used to configure your Access Point. Here you m network parameters.	Settings the parameters for wireless LAN clients which may o ay change wireless encryption settings as well as wi	onnect to reless
Security Windows Inte     Access C     WDS set     Site Surve     WDS	rnet Explorer mode cannot be supported by WPS. ntinue with the new setting?	Use this configuration will cause WPS be disabled. Are you	u sure you want
WAN Interface WAN Interface	SSID: LP-1 Channel Number: 11	ok Cancel	
Management	Associated Clients:	Show Active Clients	
	SSID of Extended Interface: Apply Changes	ter Mode (Acting as AP and client simultaneouty)	

Figure 9

4.3 Wait for changes confirmation.

4.4 Now select option WDS Settings as shown in figure 10, enable option WDS, add each Mac Address with a short description, this refers to the AP's to which this AP is going to communicate with, remember they must be in the same channel. Select: Apply changes to register the changes. Repeat this operation for each AP in which you want to use this mode.

SLANPRO	LP-1520ai High Power AP.	WWWLAN-PRODUCTS.COM
Site contents: Setup Wizad Operation Mode Wireless Basic Settings Security Security Security Security Security Security Security Security COP/IP Settings LAN Interface	WDS Settings Wirders Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS. <b>Table WDS</b> Add WDS AP: MAC Address ODeO4c818622 Comment Edificio 1 Apply Changes Reset Set Security Show Statistics	
WAN Interface	Current WDS AP List:	
Status Statistics DDNS Time Zone Setting Denial-of-Service	MAC Address Comment Select Delete Selected Delete All Reset	
<ul> <li>Log</li> <li>Upgrade Firmware</li> <li>Save/Reload Setting</li> <li>Password</li> </ul>		

Figure 10

4.5 In figure 11 please select option: **Set security** and configure the desired encryption option:





4.6 Once the encryption mode is selected in the window shown in figure 12 and other options are input, select: **Apply Changes.** 



Figure 12

4.7 Once the equipment has been configured, you must place an Access password as shown in figure 13. In order to perform this, please select option: Management, password and placing the selected ones, please select **Apply changes**.

SLANPRO	LP-1520ai High Power AP.	WWLAN-PRODUCTS.COM
Site contents: Solup Wizard Operation Mode Wireless Basic Settings Advanced Settings Security Access Control WDS settings CAN Interface WAN Interface WAN Interface Firewall Status Statistics DONS Time Zone Setting Denial-of-Service Log Upgrade Firmware Sawe/Reload Setting	Password Setup This page is used to set the account to access the web server of Access Point. Empty user name and password will disable the protection. User Name: New Password: Confirmed Password: Apply Changes Reset	

Figure 13

#### Notes

For antenna alignment, you must have a line of sight with the other radio antenna. The aperture of this antenna is about 45 degrees in the horizontal plane. There are applications in which a distance of 6 Km have been achieved with excellent results.

This radio can be fixed to a post or a wall, taking care of positioning it in a manner that the cable enters from the bottom.