123 Manual, LP-288ai V2.0 TURBO OFDM Compact Outdoor Radio with Throughput Booster. INSTALLATION IN CLIENT MODE WITH FIRMWARE V2.0.3B5P0T2E1.

LP288aiV23B5_M123_ENC01W



123 Manual, LP-288ai V2.0 TURBO OFDM Compact Outdoor Radio With Throughput Booster, INSTALLATION IN CLIENT MODE WITH FIRMWARE V2.0.3B5P0T2E1



IMPORTANT NOTE: The LP-288ai V2.0 equipment with firmware (V2.0.2B5P1) can be connected to equipment with identical firmware only. If you want to interconnect another equipment different from the AP LP-288ai V2.0 with firmware **(V2.0.3B5P0T2E1)** you must substitute the firmware



Check the content of the box, as shown in Figure 1.



2

3

Prepare the cable with the connector, as shown in Figures 2-1, 2-2 and 2-3.



Figure 2-1



Figure 2-2





Connect the cable, as shown in Figure 3.





Figure 5

6

Connect to electric power, as shown in $\ \ {\ \ Figure 6.}$



To Ethernet

Go to the properties of your network card and select Internet Protocol (TCP/IP) and then select Properties, as shown in Figure 7.

the second second		
Connect using:		
intel(R) PR0/	1000 MT Mobile Conne	Configure.
This connection use:	s the following items:	
S NWLink Ne	BIOS	
S NWLink IP	K/SPX/NetBIDS Comp	atible Transport Pro
M To Internet Pro	Recol (TCP/IP)	
3		1-12
Install	L) mimikaii	Properties
Description		
Transmission Cont wide area network across diverse inte	trol Protocol/Internet Protocol/Internet Protocol that provides erconnected networks.	otocol. The default communication
Show icon in noti	fication area when con	nected
Notify me when the	his connection has limite	ed or no connectivit

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Select Use the following IP address and type an IP address in the LP-288ai V2.0 IP range by default; for this example we have selected the 192.168.1.201 address. The LP-288ai V2.0 has the 192.168.1.2 address by default. In Subnet mask type 255.255.255.0 and in Default gateway enter the address of the destination router. In the DNS you shall enter the DNS server, so the corresponding queries will be sent to the same DNS in the web, as shown in Figure 8.

Once you have finished, select **OK** twice.

Figure 8



9

Open the web browser of your preference and type the default address **192.168.1.2**, as shown in Figure 9.

-	-					
Θ	0.	▼ 🙋	http://192.1	168.1.2/		*
File	Edit	View	Favorites	Tools	Help	

Figure 7

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It is important to mention that in this LP-288ai V2.0 configuration, it will be a client of the destination network. You shall take the following diagram as a guide. **Figure 10**. For this version of firmware, the connection will be feasible using a LP-288ai with the same firmware. Please see **Important Note** on page 12.



Figure 10

In this diagram, the destination network is the yellow one. There you have a router that provides Internet connection and it has the addresses delivery enabled in the 192.168.1.x segment, having reserved the addresses remaining from the scope. Such router will only deliver addresses from 100 to 200 and provides Internet connection. The blue segment is the network of your LP-288ai, where the router 100-200 shall have the 192.168.1.3 address.

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12

Open the web browser of your preference and type the default address **192.168.1.2**, as shown in **Figure 11**.



In the window shown in **Figure 12**, the equipment will request a user and a password. The LP-288ai has two user levels, one with all the privileges, which is **super** by default with **super** as password, and another one with fewer privileges with admin as user and **admin** as password. Type **super** in user and password and select **OK**.



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In the window shown in **Figure 13**, select **Basic/ IP Configuration** and change the IP address for 192.163.1.3 for this example. Save changes by selecting **Update**.

Figure 13

	Basic ->IP Configuration Update	1
	IP Mode: Static IP C Dynamic IP (DHCP Client)	
Basic	DHCP Relay: Disable C Enable	
Site Survey		
Administration		_
Operation Mode		
Remote Master List	IP Address: 192 . 168 . 1 . 3	
Statistics	Subnet Mask: 255 . 255 . 255 . 0	
SNTP Setting	Default Gateway Address: 0 .0 .0 .0	
Advanced	Domain Name Server IP Address: 0 .0 .0 .0	
Radio Setting		
Security Setting		-
MAC Addr Control		
Protocol Filter		
SNMP Configuration		
Miscellaneous		
Qos Setting		
Vian Setting		
system Log		

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Once you have saved the changes, select **Reboot** in the window shown in **Figure 14** so they will be effective.

ey will be		Basic -> IP Configuration Update Reboot
,	THE NATURAL ENDICE IN SETWORNUND	Participa Plana alta di faraharan da dala affant
		Keminder. Please reboot for changes to take effect
	Basic	
	Site Survey	IP Mode: Static IP C Dynamic IP (DHCP Client)
	Administration	DHCP Relay: C Disable C Enable
	IP Configuration	
	Operation Mode	
	Remote Master List	
	Statistics	IP Address: 192 . 168 . 1 . 3
	SNTP Setting	Subnet Mask: 255 . 255 . 0
	Advanced	Default Gateway Address: 0 0 0 0
Figure 14	Radio Setting	
5	Security Setting	Domain Name Server IP Address: 0 , 0 , 0 , 0
	MAC Addr Control	
	Protocol Filter	
	SNMP Configuration	
	Miscellaneous	
	Qos Setting	
	Vlan Setting	
	System Log	

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The equipment will indicate is rebooting and applying the changes, as shown in **Figure 15**.





In the window shown in Figure 18, select **Basic/Operation Mode** and then **Slave**. Enter the destination network **SSID**. In this LanPro LP-288ai example, put the channel of the destination AP in **Radio Frequency**. If you do not know it, you can select **SmartSelect**. **Disable WDS** option. Select **Update** to save changes.

B, select	🕒 🕙 🔻 🙋 http://192.168.1.3/			
/e. Enter	File Edit View Favorites Tools	Help		
s LanPro	🙀 Favorites 🏾 🍎 http://192.168.1.3	ł		
estination		Basic ->Operation Mode	B Update	Reboot
know it, 9 S option.	Basic Site Survey Administration IP Configuration Operation Mode Remote Master List Statistics	Operation Mode: SSID: Multiple SSID: RF Bandwidth: Wireless Mode: Radio Frequency:	Master Slave LanPro LP-288ai Configure 20MHz SGHz 54Mbps (802.11a) 5260MHz (Channel 52)	Suppress SSID: 🗖
	SNTP Setting Advanced Radio Setting	Enable Small Packets Optimization: WDS:	Master/Slave must also enable Small Pad communicate property.	kets Optimization to
	Security Setting MAC Addr Control Protocol Filter SNMP Configuration	Advanced Settings: Distance: RTS Timeout:	Within 1Km	
Figure 18	Miscellaneous Qos Setting Vian Setting System Log		Notes: For directional antenna, please adjust the antenna to gain better performance. Antenna Adjust	
	Status System Status Association Status MAC Learning Table			



The equipment will save the changes, but they won't be effective unless you reboot the equipment. To do so, select **Reboot** as shown in **Figure 19**. It is important to mention that the equipment can be configured to connect with the destination AP using **Remote MAC**. We recommend you to read the 123 Point to Point, Point to Multi-point (PtP/PtmP) modes manual (Document: LP288aiV22B5_M123_END01).



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The equipment will indicate it is rebooting and applying the changes, as shown in **Figure 20**.



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In the screen shown in **Figure 21**, select **Security Setting**. In **Security Mode** select the encryption mode. Remember you must enter the same encryption the destination AP has.





In the screen shown in **Figure 22** you shall enter the corresponding encryption phrase. Select **Update** to save changes. Remember it has to be the same encryption phrase of the AP.

SLANPRO	Advanced ->Security Setting Update	Reboot
Basic	Security Mode: WPA2_PSK	
Administration		
IP Configuration	PassPhrase: 01234567890	
Operation Mode	and the second se	
Remote Master List		
Statistics		
SNTP Setting		
Advanced		
Radio Setting		
Security Setting		
MAC Addr Control		
Protocol Filter		
SNMP Configuration		
Miscellaneous		
Qos Setting		
Vian Setting		
System Log		

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Once you have saved the changes, you must select **Reboot** so the changes will be effective, as shown in **Figure 23**.

ust select	👷 Favorites 🛛 🏉 http://192.168.1.3	
shown in	SLANPRO	Advanced ->Security Setting Update Reboot Reminder: Please reboot for changes to take effect
	Basic Site Survey Administration	Security Mode: WPA2_PSK -
	IP Configuration Operation Mode Remote Master List Statistics SNTP Setting	PassPhrase: 01234567890 Cipher Type: TKIP 💌
	Advanced Radio Setting	
Figure 23	Security Setting MAC Addr Control Protocol Filter	
	Miscellaneous Qos Setting Vian Setting	
	System Log	



The equipment will indicate is rebooting and applying the changes, as shown in **Figure 24**.



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To verify the connectivity, run the Ping command in a command window toward the equipment IP it is connecting, in this case 192.163.1.2. To do so, select **Start** o **inicio**, select **Run** o **ejecutar**, as shown in **Figures 25-1** and **25-2**. Type the **cmd** command in the corresponding field and select **OK**.

Printers and Faxes	Run	<u>? x</u>
Help and Support	Type the name Internet resource	of a program, folder, document, or ce, and Windows will open it for you.
<u>R</u> un	Open: cmd	<u> </u>
Opens a program, folder, docur	0	K Cancel Browse
Figure 25-1		E: 0E 0
	Help and Support Search Run Opens a program, folder, docur	Help and Support Search Run Opens a program, folder, docur

Type the **Ping** command followed by the IP of the destination equipment, in this case **192.163.1.2**. Press **Enter** and you will see the answer of the destination equipment, as shown in **Figures 26-1** and **26-2**. In case you do not get an answer from the AP, check the channel, encryption, and phrase data which are described in steps **18**, **21**, and **22**.



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Important recommendation (optional):

Proceed to change the passwords of the **admin** and **super** users of your equipment. To change **admin** password, select **Administration** and type the new password on the corresponding field, then select **Update**, as shown in **Figure 27**.

A		
admin		
••••		
	••••	aunini •••••



Proceed to change the password of user named **super**. Remember you have to be authenticated as user **super** to make this change. Select **Super User** option and type the new password, select **Update**, as shown in **Figure 30**.

cated as	SLANPRO	Super User ->Super User Update	Reboot
er liser	THE NATURAL ENDICE IN SETWORKING		
date, as	Basic	User Name: super	
	Site Survey	Provinced Taxana	
	Administration	Password:	
	IP Configuration		
	Operation Mode		
	Remote Master List		
	Statistics		
	SNTP Setting		
	Advanced		
	Radio Setting		
	Security Setting		
	MAC Addr Control		
	Protocol Filter		
	SNMP Configuration		
	Miscellaneous		
	Qos Setting		
	Vlan Setting		
iguro 20	System Log		
igure 30	Status		
	System Status		
	Association Status		
	MAC Learning Table		
	Super user		
	Super User		
	Firmware Upgrade		
	Firmware Version		
	License Key		



IMPORTANT NOTE:

For the V2.0.2B5P1 firmware version, the clients can only be LP-288ai of this firmware version. If your AP is not en LP-288ai with V2.0.3B5P0T2E1 firmware, you shall use the V2.0.3B5P0T2E1 firmware version in the LP-288ai client, or disabel the PWL according to the document LP288aiV23B5_M123_ENF01W.PDF, which can read in the webpage www.lanpro.com in teh Support section.