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

LP288aiV23B5_M123_ENB01W



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Important information: For the LP-288ai V2.0 equipment with firmware V2.0.2B5P1 it is only possible to connect other equipment with identical firmware. If you want to connect other equipment different from the LP-288ai V2.0 AP with firmware V2.0.2B5P1, you shall replace the firmware by the version V2.0.1B2P4 **OR DISABLE PWL MODE ACCORDING TO THE DOCUMENT LP288aiV23B5_M123_ENFO1W**.

1

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

Figure 2-3

Connect the cable, as shown in Figure 3.





Connect the LP-288ai to the POE, as shown in Figure 4.



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Connect your PC or switch to the POE of your LP-288ai, as shown in $\ensuremath{\mbox{Figure 5}}$.



Figure 5

Figure 4

6

Connect to electric power, as it is shown in Figure 6.



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

Connect using:	
Intel(R) PR0/1000 MT Mobile Conne	Configure,
This connection uses the following items:	
ST NWLink NetBIOS	1 1
ST NWLink IPX/SPX/NetBIOS Compatible	e Transport Pro
Internet Protocol (TCP/IP)	
<	1-12
Install.	Properties
Description	
Description Transmission Control Protocol/Internet Protor wide area network protocol that provides cor across diverse interconnected networks.	col. The default nmunication
Description Transmission Control Protocol/Internet Protor wide area network protocol that provides cor across diverse interconnected networks. Show icon in notification area when connec	col. The default nmunication ted
Description Transmission Control Protocol/Internet Protor wide area network protocol that provides cor across diverse interconnected networks. Show icon in notification area when connec Notify me when this connection has limited of	col. The default nmunication ted ir no connectivit

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Select **Use the following IP address** and type an IP address in the LP-288ai IP range by default; for this example we have selected the 192.168.1.201 address. The LP-288ai 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**.

lnternet Explorer cannot display the webpage - Windows Internet Explorer						
G	0.	-	http://192.1	168.1.2/		~
File	Edit	View	Favorites	Tools	Help	
						Figure 0

Figure 7

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**, as shown in **Figure 10**.



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Select **Basic/Operation Mode**. Select **Master**, enter the name of your wireless network in **SSID** field. Uncheck **Suppress SSID** option if you want the AP not to be hidden. Select the channel in **Radio frequency** field (See Appendix 1), adjust the link distance in **Distance** (See Appendix 2), and select **Update**, as shown in **Figure 11**.



EANPRO with Throughput Boo	Manual - LP-288 oster - Installatio	8ai V2.0 TURBO OFDM Compact Outdoor Rac on in AP mode with firmware V2.0.3B5P0T2	lic E 1
12			
The equipment will save the changes, but they won't	G 🕘 💌 🖻 herpri/192.169.1.2/nd	des tes	
become effective until the equipment be rebooted. To do so	File Lot view Pavorites 100is		
soloct Deboot as shown in Figure 12	Customes Customer 1210		_
select Rebuot , as shown in Figure 12 .	SLANPRO	Basic ->Djuratuui Hold Lusane	
Figure 12	Basic Site Survey Administration IP Configuration Operation fielde Remote Uaster List Statistics	Operation Mode: © Haster C Slave SSID: [LanPro_LP-208ai Suppress SSID: [RF Bandwidth: [20MHz] Wineless Node: [SGHz 54Mbps (802.11a) Radio Frequency: [S260MHz (Channel S2)]	
13 Next, a screen to indicate that the equipment is rebooting	🔐 Favorites 🖉 http://192.166.1.2/m	index. Nov	
will be displayed, as shown in Figure 13.	SLANPRO		

Select Advanced / Security Setting. In Security Mode select the encryption mode. For security reasons we suggest WPA2 PSK mode as shown in Figure 14. Remember that for this firmware it is only accepted the connection of another LP288ai. Please check the Important information on pages 2 or 10.





Important suggestion (optional):

Proceed to change the password of the users **admin** and **super** of your equipment.

To change the password of the user **admin**, select **Basic/Administration** and type the new password in the **password** box, then select **Update**, as shown in **Figure 18**.

onites 🔏 http://192.168.1.2/	10.00	
SLANPRO	Basic ->Administration	Reboot
Basic State Survey Administration IP Confliguration Operation Mode Remote Manter List Statistica	Device flame: User flame: Possword:	
Advanced Radio Sottling Sociatify Sotting MAC Addr Centrol Protocol Filler Misscallaneous doe Sottling Vian Sotting		



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Proceed to change the password of the user **super**. Remember you have to be authenticated as user **super** to make this change. Select **Super User/Super User** option and type the new password, select **Update**, as shown in **Figure 21**.



To make the changes effective, you must select **Reboot** as shown in **Figure 22**.

eboot as 🛛	🍃 Favorites 🛛 🌈 http://192.168.1.2,	i		
	SLANPRO	Super User ->Supe	r User Update Reminder: Please reboot for changes to t	Reboot
	Basic			
	Site Survey			
	Administration	User Name:	super	
	IP Configuration	Password:		
	Operation Mode		A	
	Remote Master List			
	Statistics			
	SNTP Setting			
	Advanced			
	Radio Setting			
	Security Setting			
	MAC Addr Control			
Figure 22	Protocol Filter			
	SNMP Configuration			
	Miscellaneous			
	Qos Setting			
	Vian Setting			
	System Log			

You may see the equipment is rebooting on the screen, as shown in **Figure 23**.



The equipment will request your user and password once again. Enter the value you changed and select **OK**, as shown in **Figure 24**.

vord once as shown	Connect to 192.	168.1.2
	7	45
	The server 192.1 and password. Warning: This se	.68.1.2 at Secure Realm requires a username rver is requesting that your username and
	without a secure	connection).
Figure 24	User name:	🖸 super 💌
	Password:	•••••
		Remember my password
		OK Cancel

IMPORTANT NOTE:

For the V2.03B5P0T2E1 firmware version, the clients can only be LP-288ai of this firmware version, unless the PWL is disabled according to the document LP288aiV23B5_M123_ENF01W.PDF.

If you want other type of clients to connect to this AP, you shall use the previous firmware version V2.0.3B2P1 or disable the PWL according to the document LP288aiV23B5_M123_ENF01W.PDF.

Appendix 1: Consider that the correct selection of the frequency channel is a vital factor for your wireless network performance. The LP-288ai equipment operates in the ISM 5 GHz frequency band and it has more frequency channels which do NOT overlap each other (because of the spacing in frequency among channels). However, there is the possibility that where you are installing your wireless network other transmission sources in the 5 GHz band exist. As a consequence, the signal of your wireless network can be interfered by other devices if they operate in the same frequency channel in the 5 GHz band. To avoid this, you can make a network survey through the **Site Survey** option and detect which frequency channels are being used in the site. The idea is to select or configure your LP-288ai in the frequency channel that you see clear or not used. In the unlikely event that all the channels are busy, it is recommended to use the frequency channel which transmission power is the lowest in the site.

Appendix 2: In step 11, **Advanced Settings** / **Operation Mode**, there are several options for the **Distance** parameter. This one allows the user to select the approximate distance between the *AP* device and the *Slave* device (or between *AP* devices). In case you select the proper distance, the LP-288ai will handle the latency on a long distance path. This allows to reduce the error rate and increase the transmission speed.