LP-288ai, 5.8GHz Band Fractional Bandwidth 5/10/20MHz OFDM Radio, 123 Manual for installation in Client Mode.

LP288ai_M123_ENC01W



LP-288ai, 5.8GHz Band Fractional Bandwidth 5/10/20MHz OFDM Radio, 123 Manual for installation in Client Mode.



By following these instructions you will be able to install your LP-288AI in Client Mode.

Please check package contents shown in figure 1.



Figure 1

2 Please prepare the cable with the connector as shown in figure 2a, 2b and 2c.



Figure 2a

3



Figure 2b



Figure 2c

Connect the cable as shown in figure 3.



4 Connect the **To ODU** output of the PoE injector to your LP-288AI as shown in figure 4.



Connect one of your PC's or Switch's Ethernet ports to the **To Ethernet** input of the PoE injector of the LP-288ai as shown on figure 5.







Connect the DC Power to the PoE's Injector Male Jack as shown in figure 6.



? X Local Area Connection Properties General Advanced Connect using: Intel(R) PR0/1000 MT Mobile Conne Configure. This connection uses the following items ST NWLink NetBIOS WWLink IPX/SPX/NetBIOS Compatible Transport Protection N 7 ALC PAR Install. Uninstal Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communica across diverse interconnected networks. Show icon in notification area when connected Notily me when this connection has limited or no connectivity **OK** Cancel

neral ou can get IP settings assigned is capability. Otherwise, you ne ie appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
O Obtain an IP address autors	atically
Use the following IP addres	£
IP address:	192.168.1.201
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
Obtan DNS error address	automatic ally
Use the following DNS service	er addresser:
Preferred DNS server.	192.168.1.1
Alternate DNS server:	24 36 54
	Advanced

Go to the Properties window of your Network Interface card(NIC): Local Area Connection Properties and select: Internet Protocol, then select: Properties as shown in figure 7.

Figure 7

Figure 6

In the window: **Internet protocol (TCP/IP) Properties** of figure 8, select: **Use the following IP address** and input an IP address in the default IP range of the LP-288ai, in this example we have selected address: 192.168.1.201. The LP-288ai has a default adress of: 192.168.1.2, input in: **Subnet mask**: 255.255.255.0 and in: **Default gateway** the destination router address, in: **DNS** you will have to input your ISP's DNS or the destination router address, the one that provides the Internet service, in order that any queries are routed to the destination network's router.

Once finished, please select: **OK** and then: **Close**

Figure 8

9 It is important to mention that in this configuration of the LP-288ai, it will be a client of the destination network. In figure 11 you can see the actual configuration used as a reference.

In this diagram, the destination network is yellow colored. In it, you have a router that provides Internet service connection and has the delivery of addresses enabled in the 192.168.1.x segment, and number of reserved addresses in the scope. The Router will deliver addresses from the 100th to the 200th only, and it provides the Internet connection. The LP-288ai has the default address 192.168.1.3. in the blue colored network segment .



Figure 9

Open the browser application of your choice and input the default address: 192.168.1.2, please see figure 10.
 Figure 10

🖉 Internet Explorer cannot display the webpage - Windows Internet Exp							
G	0.		http://192.168.1.2/				
File	Edit	View	Favorites	Tools	Help		

```
The LP-288ai will ask that you input a User and a Password. The LP-288ai has two user levels, one with all the privileges named by default: super, whose password is: super and another with less privileges named: admin with a password: admin. Now please input as user: super and a password: super and hit: OK, as shown in configuration in figure 11.
```

Figure 11

Connect to 19	2.168.1.2	? 🛛
R		
The server 192.1 and password. Warning: This ser password be servi without a secure	68.1.2 at Secure Realm requi rver is requesting that your us t in an insecure manner (basic connection).	res a username sername and authentication
User name:	g super	*
Password:		
	Remember my passw	ord Cancel

12 In this example, in the window shown in figure 12, please select: IP Configuration and change the IP address to 192.168.1.3

Basic -> IP Configuration (Update) REBOOT				
IP Mode: DHCP Relay:	⊙ Sta ⊙ Dis	itic IP Iable	O Dynan O Enabl	nic IP (DHCP Client) e
IP Address:	192	. 168	.1	.3
Subnet Hask	255	. 255	. 255	.0
Default Gateway Address:	0	.0	.0	.0
	Basic -> IP Configuration IP Mode: DHCP Relay: IP Address: Subset Hask: Default Gateway Address:	Basic -> IP Configuration Update IP Mode: ③ Sta DHCP Relay: ④ De IP Address: 192 Subset Hask: 255 Default Gateway Address: 0	Basic -> IP Configuration Update IP Mode: Static IP DHCP Relay:	Basic -> IP Configuration Update IP Mode: Static IP Dynam DHCP Relay: Disable Enable IP Address: 192 .168 .1 Subnet Mask: 255 .255 .255 Default Gateway Address: 0 .0 .0

Please select : **Update** in the window shown in figure 13 in order to save the changes. 13

Figure 12

Once changes are saved, select : **Reboot** in the same window of figure 14.

	Basic -> IP Configuration	Jpdate REBOOT	SLANPRO	Basic -> IP Configuration	Update)	REBOOT
Basic Site Survey Administration IP Configuration	Reminder: Please reboot for changes to take effect IP Mode: Statc IP Djnamic IP (DHCP Client) DHCP Relay: Disable DEnable		Basic Site Survey Administration IP Configuration Operation Mode	Remander: Pleas IP Mode: DHCP Relay:	static IP Oisable	O Dynamic IP (DHCP Client)
Advanced Radio Setting Socurity Setting MAC Addr Control Protocol Filter SIMIP Configuration Miscellaneous	IP Address: Subnet Hask: Default Gateway Address:	192 .168 .1 .3 255 .255 .255 .0 0 .0 .0 .0	Advanced Radio Setting Security Setting MAC Addr Control Protocol Filter SMIXP Configuration Miscellaneous	IP Address: Subnet Hask: Default Gateway Address:	192 .168 .1 .3 255 .255 .255 .0 0 .0 .0 .0	
	Figure	13		Figure	14	
14 The equipart of the mindow	uipment will indicat rebooting and appli shown in figure 1!	e you to wait the completion cation of the changes in the $\overline{5}$.	SLANPRO Basic Site Survey Administration © Configuration	R	ebootin	
			Operation mode			ng
		Figure 15	Advanced Radio Setting Security Setting MAC Addr Control Protocol Filter SMBIP Configuration Miscellareous Gos Setting System Log	PI If the browser fails to a	ease wait	ng

Figure 16



16 The equipment will ask again for the user and password, input as User: super and password: super then select: OK.



Basic -> Operation Mode (Update) REBOOT SLANPRO iden Please reboot for changes to take effect Basic Site Survey de: 🔿 Access Point 💿 Client 🔿 Wireless Bridge Administration **IP Configuration** SSID: Lanpro 288ai Suppress SSID: Operation Mode 5GHz 54Mbps (802.11a) -Advanced 5540MHz (Channel 108) M Radio Setting WDS: O Enable O Disable Security Setting port: O Enable @ Disable MAC Addr Control **Protocol Filter** SMMP Configuration Advanced Settings Miscellaneous ote AP MAC List **Qos Setting** Figure 19 Remote AP HAC 1: 00:00:00:00:00:00 4 Km and above . System Log Remote AP HAC 2: 00:00:00:00:00:00 Status Remote AP MAC 3: 00:00:00:00:00:00 For directional antenna, please System Status adjust the antenna to gain better Notes: All '00:00:00:00:00 'means all SLANPRO Basic Site Survey Administration Rebooting **IP Configuration** Operation Mode Advanced Please wait ... Radio Setting Security Setting MAC Addr Control 29. Figure 20 **Protocol Filter** SNMP Configuration If the browser fails to auto-redirect, please use the left navigator Miscellaneous **Oos Setting** System Log

In the window shown in figure 18, select: Operation Mode, then select: Client, input now the SSID of the destination network, in this example of the LP-288ai, in: Radio Frequency input th channel of the destination AP. If you don't know it, please select: SmartSelect, disable option: WDS, you could use it if other equipment support it, as an example two LP-288ai, select: Update to save the changes.

Figure 18

The equipment will save the changes, but they will not take effect until you reboot it. In order to do it, please select: **Reboot**, it is important to mention that you can configure the equipment in a way that it only connects to the destination AP, by using the Remote MAC, we recommend you read the 123 Manual on how to set the LP-288ai in Point to Point mode, (document: LP288AI_M123_SPD01w.pdf).

The progress of the rebooting operation will be shown in the window of figure 20. 18 In the window shown in figure 21, select: **Click here**

Figure 21



In the window shown in figure 22, select: Security setting, and in: Security mode, select the encryption mode, remember to select the same mode used by the destination AP.

Figure 22



Select the type of cyphering and the encryption mode of your destination AP, yo will have to input the corresponding encryption phrase and then select: Update as shown in figure 23.

Figure 23

Figure 24

SLANPRO	Advanced -> Security	etting Update	REBOOT
Basic Site Survey Administration	Seconty Node:	WPA2_PSK ¥	
IP Configuration Operation Mode	PassPhrases	01234567890	
Advanced	Cipher Type:	TKIP 💌	
Radio Setting Security Setting			
MAC Addr Control			
SHMP Configuration			

21 Once changes have been saved, please select: **Reboot** in the window shown in figure 24 for the changes to take effect. As shown in figure 24.

Advanced -> Security Setting (Update) REBOO SLANPRO Reminder: Please reboot for changes to take effect Basic Site Survey Administration Security Mode: WPA2_PSK **IP Configuration** Operation Mode Advanced PassPhrase: 01234567890 Radio Setting Cipher Type: TKIP 👻 Security Setting MAC Addr Control Protocol Fitter SNMP Configuration



System is Up

Click here

Reminder: Please reboot for changes to take effect

Rebooting

Please wait ...

If the brower fails to auto-redirect, please use the left nevigetor

System is Up

Click here

TxI

74

User Name: (super

User Name:

Passa

HAC Address

State

al 61

Excelent(-27d8m)

super

.....

Password: (.....

REBOOT

REBOOT

SLANPRO 27 The equipment will ask again the User and Password if Basic you are authenticated as **admin**, input the value you Site Survey changed and select: OK, then select: click here. in Administration IP Configuration the window shown in figure 30. Operation Mode Figure 30 Advanced Radio Setting Security Setting Procceed to change the password of the user: **super**, Super User -> Super User (Update) SLANPRO in order to be able to make this change you must be Basic authenticated as super user, now select option: super Site Survey user and input a new password, then select : update Administration IP Configuration (see figure 31) Operation Mode Figure 31 Advanced Super User -> Super User (Update) SLANPRO 29 For the change to take effect, please select: Reboot in the window shown in figure 32. Basic Site Survey Administration Figure 32 **IP** Configuration Operation Mode Advanced SLANPRO 30 Watch now the progression of the reboot function, Basic Site Sorvey please see figure 33. Administration **IP** Configuration Operation filode Advanced Figure 33 Radio Settino Security Setting MAC Addr Control Protocol Filter **SNMP** Configuration **Miscellaneou** SLANPRO 31 In the window shown in figure 34, please select: Click here Basic Site Survey The equipment will ask you to input the new user and Administration **IP Configuration** password, input the new values to proceed and select: **Operation Mode** ОК Advanced Figure 34 **Radio Setting** Security Setting MAC Addr Control Status -> Association Status SLANPRO To check the status of the connection, select: Status Basic ID Association and observe the signal in the Signal Site Survey 1 00:18:5C:00:03:33 associated Administration IP Configuration Strength value, as shown in Figure 35, this value will Operation Mode depend on the distance and link quality. Advanced Radio Setting Security Setting MAC Addr Contro rotocol Filt Figure 35 Configuration Miscel Qos Setti em Loc Status

Tx Rate

\$4000

18

Association Status