LP-289ai 123 Manual for PtP and PtMP Modes setup.

LP289ai_M123_ENF02W



LP-289ai 123 Manual for PtP and PtMP Modes setup.



The following instructions will let you configure your LP-289ai in PtP and PtMP Modes.

1

It is highly recommended to draw a detailed configuration diagram like the example shown in figure 1, in which 3 equipment in a PtMP connection will serve as a guide for you to their configuration, please remember that each equipment has a unique MAC address that you will require later when setting up this type of configuration.



2

After executing the installation 123 Manual(B01) please proceed to configure it by first connecting the cable coming from the LP-289ai to the PoE injector port named: **To Odu** as shown in figure 2.



Connect a cable now from the PoE port: **To Ethernet** to the Connect power to the PoE as shown in figure 4. Switch or PC as shown in figure 3.



Figure 3

4

6





5

In figure 5 go to your NIC card properties and select: Internet Protocol, select: Properties.

	Advanced		
Conne	ct using:		
-	ntel(R) PR0/100	0 MT Mobile Conne	Configure
This co	nnection uses th	e following items:	
2 2 2	NWLink IPX/S	PX/NetBIOS Comp of [TCP/IP]	atible Transport Prot
	terta 1	Television	Burnetine
-	nstal.	Umritistal	Properties
1000	emission Control	Protocol/Internet Protocol Internet Protocol Internet Protocol Internet Provides	rotocol. The default communication
Tran wide acro	ss diverse interco	A RIDGIOG DOCTORIA.	

In the window shown in figure 6, select: **Use the following** IP address and next input an IP address in the default range of the LP-289ai. In this example, we have selected address 192.168.1.201, the LP-289ai has a default address of 192.168.1.1, input now in: Subnet mask 255.255.255.0 and in the: **Default gateway** the destination router address; in the: DNS you should input your Service provider's DNS or the destination router's IP address which will provide you with internet service, this will permit any queries to reach the router of the destination network.

Lacal Area Committee Properties	Internet Protocol (TCP/IP) Pr	operfles		
leveral Advanced	General			
Connect using ImplicitedRijPR0/1000 MT Mobile Conne Cont	You can get IP settings assigned this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network, supports of to ask your network administrator for		
This connection uses the following items:	O Obtain an IP address autom	alically		
Y"NwLink NetBIOS	O Use the following IP address	Concernance of the second s		
While IPUSPUNEBIDS Compatible Transport Sector and Distance (TCD SP)	IP address:	192 . 168 . 1 . 201		
at a manual morocol (ICP/M)	Subret mark:	255.255.255.0		
 Internal Unional Provide 	Detault gateway:	192.160.1.1		
Description	Converting server address	addresses ally		
Transmission Control Protocol/Internet Photocol. The d	Use the following DNS server addresses:			
actions diverse interconnected networks.	Preferred DNS server.	192.168.1.1		
Show icon in notification area when connected	Alternate DNS server			
 noncy we when this convection has insted or no conv 		Advanced		
1 - 10 - 11	h	OK Cancel		



Open your preferred browser and input the default address: 192.168.1.1, please see figure 7.



In the validation window of figure 8 select: **Continue to this website**.





9

In the window of figure 9 input in: **Name**: the word: **admin** and the in the: **password**: the word: **password**.

	802.11a 54 <i>Mbps</i>
	High Speed Access Point
Name	admin
Password	•••••
1	Login now

In the window shown in figure 10, in the **Wireless Setup** menú proceed to select: **Basic Settings**, in: **Operation mode** select: **Wireless Bridge** then select: **Apply**, remember to verify the working frequency in which they must work.

802.11a	Wireless LAN	
VUZ. 112 Status I a topost a tobornation a convections a conv	Woreless LAN Settings Operating bindle Workess Mode Channel Freesency Data Nate Output Freesen Station Mode Flow Control Control by AP Uptim Speed Limit (5-5527)	Concernent for the formation Dest The Concernent Dest C
Wireless Setup		
» VARVLAN Settings		

Figure 10

11)

In the window shown in figure 11, in the **Wireless setup** menú, proceed to select: **WDS Settings**, input in the: **Remote Mac Address** the Mac addresses of the destination equipment as shown, please refer to the diagram of figure 1. It is very important to input the MAC addresses in a correct manner because not doing so will impede communication between them. Once finished hit: **Apply**.



Figure 11

12

In the window shown in figure 12, please establish the WDS connection security. In order to do this, select: **VAP/VLAN Settings in the menu: Wireless Setup**, then select: **wds_profile** and then: **Edit.**

Status					
a latermation					
a Contractiona	Becarty Profe	ins for Youx, Stations Adapter, WDS and loss	Building mode		
+ Bubbbca	1 1111111	Profile Name	14D	Secure	Earth
a lange and	1 1000138	or Port 1	Thereses	Deer Solers	
System Setup	100000000	W_POWE	(feature)	Daver Bjachern	
Basic Settings	100000000	AF, Profied	Seattle .	Open Bytoleni	
· P Settings	1000000000	of Postal	This area	Carer Burners	
 BADIUS Suttings 	10000124	M_Foliet	(COMPANY)	Dave Spring .	100
# HTTP Redroct	1100154	W.futiet.	Towney.	Open System	
a fermal Settings	1 3	W Frant	Noveman .	Dave Bistern	
a Virtual Server	24	or point	Withold .	Caren Business	
a Load Balance	a second second	en pole	This is a second second	Daran Musikers	
Wireless Setup	6	ada.godia			
a Basic Settings	N PERSONAL PROPERTY AND INCOME.	aded and any product	-		
> VAPISAN Settraph	The second se		East 1		
a Access Control	1				

In this example we will generate the Keys and Encryption mode we will use. In order to do this, please go to the window shown in figure 13. In: **Data encription** select: **WEP 64 bits**, input the Passphrase and select: **Generate keys**. This will generate the keys in the LP-289ai, then, select Key 1 and select: **Enable** and then: **Apply**.

Status	Security Profile for	r WDS Configuration
a Information		
# Connections	Network Authentications	Caret Dysteet (1)
a Statistice	Data Encryption	64 bits WEP
System Setup	Paraterna Rizzkietes	Generate Keye
Basic Settings	Bart () LISERACIAF	17-1
IP Settings	Int C MITCHIEF	
RADIUS Settings	AND CONTRACTOR	
 HTTP Redrect 	100000	
Firewall Settings	ANTE CO DISTANTION	
Writed Server		Enable C Decable
Load Balance		
Wireless Setup		Dack Appy Cancel
» Basic Settings		
a VAPVLAN Settings		
» Accese Control		
a WDS Settings		

Figure 13

14

In this case a message window will pop-up indicating that all keys apply to all the security profiles. Please see figure 14, then select: **OK.**

Message	from webpage		2
Q)	NOTE: All the profiles sh respective profiles.	are the same set of keys0key1~key4), except the default key	index can be different in

Figure 14

15

As shown in figure 1, we will proceed to connect the second LP-289ai and repeat steps 7 to 14, taking in mind the MAC addresses used in the diagram of figure 1. Remember to input the MAC addresses of the equipment you wish to communicate to. Additionally, please change the IP address as per the diagram by going to figure 15, in the menu: **System Setup**, select: **IP Settings**, change the IP and select: **Apply**, the equipment will reboot and you will have to use the new IP to access it (This step should be done before establishing connection between them).

Figure 15

802.11a		
Swingps	Configure AP as a	
High Speer Access Poler	🖸 Bridge with Static P. 🔗	
[= Logout]	O Router	
Status	Epanning Tree	· Enable · Disable
a information	VC494(802.10)	C Erable C Disable
+ Connections	Management VLAN ID	A
o Statistics	IP Address	192 168 1.2
System Setup	IP Subnet Wask	255.255.255.0
e Basic Settings	Default Gateway	8008
all Settings	Prenary DRIS Server	0000
RADIUS Settings	Secondary DN/S Server	0000
#HTTP Redrect		
#Firewall Settings		Apply Cancel Retest
Wrtual Server		

16

Now we will proceed to connect the third LP-289 by repeating steps 7 to 14, and taking into account the MAC addresses shown in the diagram of **figure 1**. Remember to input the MAC Addresses of the equipment that are to be communicated. Additionally, you must change the IP address as per the diagram of figure 1. In order to do this, go to the same window shown in figure 15, being there, go to menu: **System Setup**, select: **IP Settings**, change the IP for the third one and select: **Apply**, the equipment will reboot and you will have to access it with the new IP address, do this before establishing the communication between the equipment.

Wait for 30 seconds and verify the connectivity between the equipment. In order to do this, you can:

- а Send a PING to any of the destination equipment, Command Prompt - ping 197,168.1.1 -t - 🗆 × (See figure 17 a). >piny 192.168.1.1 -t 192.168.1.1 with datas
 - Figure 17 a
- Enter the LP-289ai and in the window shown in figure 17b, check the option: Connections, verify that all the LPb 289ai are connected:

	Status	Connections				
	s Connections					
	A Clatatics	Bridge ID	BAC Address	IP Address	RSSI (dDm)	Statura
	P-MINING	1	00.77:11:01:11:55	192.168.1.1	-15	ACTIVE
	System Setup	143	00:27:11:01:11:30	102.104.1.3	300	ACTIVE
Figure 17 b	# Basic Settings			Refresh		
In the window shown in figure 17 Test and verify the status of the co	c, enter in: Link nnection.	Status Josephilian Josephilian	Link Test Las NC Las		EN FTULBURG B B D D D D D D D D D D D D D D D D D	Remote Report Local Fishers Bitter Bitter Bitter Bitter Bitter
18	Figure 17 c	s Link Text				
If any of the equipment fails to con	nect, please verify	y that:				
a Tha MA	C addressess ar	re correct.				
b The end	cryption keys are	correct.				



С

It is recommended to change the administration password of your equipment, we remind you to save it in a safe place because loosing it implies opening the equipment so as to the reset it to factory values and losing the warranty.

In order to change the password, select option: **change password** in the menu: **Management**, as shown in the window of figure 19.

System Setup	
Basic Settings	Change Password
P Settings	
RADIUS Settings	Construction 1
HTTP Redirect	Current Paraword
Firewall Settings	New Password
Virtual Server	Repeat New Password
Load Balance	Restore Default Pasaword O Yes O No
Wireless Setup	Annual Connect
a Basic Settings	(carcar)
a VAP/VLAN Settings	
» Access Control	
A WDS Settings	
a Advanced Settings	
Tools	
» Site Survey	
» Link Test	
Management Change Password	

Figure 19

20

In the window of figure 20, input the old password in: **Current Password** and the new password in: **New Password**, repeat it in: **Repeat New Password** and select: **Apply**.

System Setup		CONSIGNATION OF THE OWNER	No. of the local distance of the				
Basic Settings	Ch	Change Password					
IP Settings							
RADIUS Settings	20100						
# HTTP Redirect	Current	New Password	Constitution of the second sec				
EFirewall Settings	New Pa						
Virtual Server	Repeat	New Password					
Load Balance	Restore	Detault Passwor	O Yes O No				
Wireless Setup		Anoly	Cancel				
a Basic Settings		rappy					
a VAP/VLAN Settings							
a Access Control							
n WDS Settings							
a Advanced Settings							
Tools							
» Site Survey							
a Link Test							
Management							
Change Password							