123 Manual, LP-1521 Broadband AP Router. Configuration of Bandwidth Control

LP1521_M123_ENQ01W



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



Figure 1

2

Screw the antenna, as shown in Figure 2.



Figure 2

3

Connect to electric power, as shown in Figure 3.



Figure 3

Connect your PC to a LAN port of the LP-1521, as shown in **Figure 4.**



Figure 4

Figure 5

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Go to the properties of your network card and select **Internet Protocol** / **Properties**, as shown in **Figure 5**.

Intel(R) PRD/1000 MT Mobile Conne Configure is connection uses the following items: Transport Protocol (TCP/IP) Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. Show icon in notification area when connected	neral Advanced		
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	Show icon in notificati	on area when con	nected
Notify me when this connection has limited or no connectivity		onnection has limite	ed or no connectivity
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Select **Use the following IP address** and type an IP address in the LP-1521 IP range by default; for this example we have selected the **192.168.1.201**. The LP-1521 has the 192.168.1.254 address by default. In **Subnet mask** type **255.255.255.0**, in **Default gateway** the address of the destination router, in **DNS** you shall enter your provider DNS or the destination router IP providing the Internet service, so the corresponding queries are sent to the router of the destination network, as shown in **Figure 6**.

Once you have finished, select \mathbf{OK} twice.



Open the web browser of your preference and type the default address **192.168.1.25**4, as shown in Figure 7.

Figure 8

Figure 9

🖉 WLAN Bro	adband Router - Windows Internet Explorer	
00-	http://192.168.1.254/home.asp	v 😣
😭 Favorites	C WLAN Broadband Router	
		Figure 7

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Depending on the version and configuration, your equipment will request your administration credentials. Proceed to enter them and select **OK**, as shown in **Figure 8.** By default, the LP-1521 has **admin** and **password** as user and password respectively.



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Select the option **Management/QoS**, as shown in **Figure 9**.



At the top of the screen you will configure the speed of your service provider. To enable QoS functionality, select the box **Enable QoS**, as shown in **Figure 10**.



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Proceed to configure the bandwidth of your service provider. In the box **ISP Bandwidth: Download** type the download speed of the provider. In **Upload** type the upload speed. Enter the maximum speed offered by your provider for asynchronous links, as shown in **Figure 11.** Remember that this option does not increase the bandwidth of your provider; this is a reference value for the rules to be defined in the LP-1521.

Figure 11

Figure 12

		WWWLAN-PRODUCTS.0
Site contents: Status Status Setup Wizard Operation Mode Wreless TCP/IP Settings Firewall VPN Setting Marageorem Dons Denial-of-Service Log Upgrade Firmware Save/Reload Setting Password WatchDog QoS Logout	Quality of Service First, assign total downstream and upstream that you applied from ISP. Second, set up the specific in guarantee downstream, upstream and priority and display current settings in the table. Image: The second set up the specific in guarantee downstream, upstream and priority and display current settings in the table. Image: The second set up the specific in guarantee downstream, upstream and priority and display current settings in the table. Image: The second set up the specific in guarantee downstream in the second set up the specific in the table. Image: The second set up the second set up the specific in the table. Image: The second set up the second set up the specific in the table. Image: The second set up the second set up the second set up the specific in the table. Image: The second set up the second set up the second set up the specific in the table. Image: The second set up th	elect

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Configure the bandwidth for all the undefined traffic in the control rules (for the traffic that fails to comply the rules is regulated by this control). Type the download speed in the field **Undef IP Bandwidth: Download** and the upload speed in **Upload**, as shown in **Figure 12**.

SLANPRO	LP 1521 High Power AP	I-PRODUCTS.COM
Site contents: Status Status Status Setup Wizard Operation Mode TCP/IP Settings Frewall DONS Dons Dons Dons Dons Dons Dons Save/Reload Setting WatchDog Qos Logout	Puality of Service iist, assign total downstream and upstream that you applied from ISP. Second, set up the specific ip address' anantee downstream, upstream and priority and display current settings in the table. Image: Second set up the specific ip address' and the second set up the specific ip address' and the second set up the specific ip address' and the second set up the specific ip address' and the second set up the specific ip address' and the second set up the specific ip address' and the second set up the specific ip address' and the second set up the specific ip address' and the second set up the specific ip address' addres	



Save and apply the changes by selecting the option **Apply Changes**, as shown in **Figure 13.**



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In the screen you will see that the changes were applied. Select **OK**, as shown in **Figure 14**.



Now proceed to configure your bandwidth rules for the users connecting to the LP-1521. To do this, fill the information of the fields in the section **Bandwidth Control.** In **IP Address Range** you shall type the IPs range to which the rule will be applied; in this example we use the address **192.168.1.100** to **192.168.1.200**. Next, enter the bandwidth to be assigned in the field **Guarantee Bandwidth**, in **Download** type the download speed and in **Upload** the upload speed, as shown in **Figure 15**. Remember that the speed is limited by your link speed and this bandwidth will depend on the traffic it has.

SLANPRO LP 1521 Hig	h Power AP
Site contents: Status Setup Wizad Oparation Mode Wireless TCP/IP Settings Friewall VPN Setting Manageotary DONS Log Upgrade Firmware Saword WatchDog Dogs Log Upgrade Firmware Saword WatchDog Dogs Log Upgrade Firmware Saword WatchDog Dogs Log Upgrade Firmware Saword WatchDog Dogs Log Upgrade Firmware Saword WatchDog Dogs Log Upgrade Firmware Saword WatchDog Cos Log Upgrade Firmware Saword WatchDog Cos Log Upgrade Firmware Saword WatchDog Cos Log Upgrade Firmware Saword Mathematic Download Saword WatchDog Cos Log Upgrade Firmware Saword Mathematic Download Saword Mathematic Download Saw	WWWLAN-PRODUCTS.COM t you applied from ISP. Second, set up the specific ip address' ad display current settings in the table. load 1024 KB's s Upload 128 KB's Prioriny Select

Figure 15



Additionally, you may assign the priority for the rules. Set the priority for the group of total IPs as **Low** in the field **Priority** (in this example), and select **Apply Changes**, as shown in **Figure 16**.



17)

Note how the rule was added, as shown in **Figure 17.** You may eliminate it and make a new one in the option **Delete Selected**, which eliminates the selected rules, or **Delete All**, which eliminates all the rules.

Figure 17

Figure 18

SLANPRO		LP 152	21 High P	ower AP		www.lan-products.
Site contents: Status Status Operation Mode Wireless LAN Interface Kanagement DONS TIME Zone Setting Wanagement DONS TIME Zone Setting Dons Dons Dons Dons SaveReload Setting Password Vaschoog QoS Log Management	Quality of First, assign total d guarantee downstu ISP Bandwidt: Dr Undef IP Bandwidt Apply Chang Bandwidt Control IP Address Range Guarantee Bandwi Priority: High Apply Chang	Service downstream and u ream, upstream and muload 1024 h: Download 512 res Resel	pstream that you a d priority and displ KB/s Upload [KB/s Upload KB/s Upload	pplied from ISP. Sec ay current settings : 1024 KB/s ad 128 KB/s load KB	iond, set up the sp in the table.	vecific ip address'
Logon	Current Bandwidth	Control Table:	Downstream			
	From IP Addr	To IP Addr	(KB/s)	Upstream(KB/s)	Priority	Select
	192.168.1.100	192.168.1.200	512	128	Low	
	Delete Selec	ted Dele	te All Res	et		

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Now we will make a rule to give more priority to an IP (192.168.1.190). Complete the fields and select **Apply Changes,** as shown in **Figure 18.** Remember that several rules for the same IP cannot be made.

			oner /u		WWWILAN-PROD
Quality of	Service				
First, assign total guarantee downst	downstream and u ream, upstream and	ostream that you a I priority and disp	pplied from ISP. Seco lay current settings ir	ond, set up the sp a the table.	ecific ip address'
₩ Enable QoS					
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Undef IP Bandwidt	th: Download 512	KB/s Uplo	ad 128 KB/s		
Apply Chanc	es Reset				
		-			
Bandwith Control					
IP Address Pauge	192 168 1 90	192 168 1 90	1		
IF Address Kange	102.100.1.00	004	1004		
Guarantee Bandwi	idth: Download	U24 KB/s Up	load 1024 KB/	5	
Priority: High	•				
Apply Chang	ges Reset				
Current Bandwidth	h Control Table:				No.
From IP Addr	To IP Addr	Downstream (KB/s)	Upstream(KB/s)	Priority	Select
	Quality of First, assign total guarantee downst F tauble QoS ISP Bandwidth: D Undef IP Bandwidth: D Undef IP Bandwidth: D Bandwidth Control IP Address Ranged Guarantee Bandw Priority: High Apply Chang Current Bandwidt	Quality of Service First, assign total downstream and up guarantee downstream, upstream and First, assign total downstream and First, assign total downstream and First, assign total downstream and Bandwidth: Download 1024 Undef IP Bandwidth: Download 1024 Bandwith Control IP Address Range: 192.168.190 Guarantee Bandwidth: Download 1 Priority: High T Apply Changes Reset Current Bandwidth Control Table: From IP Address Tan IP Address	Quality of Service First, assign total downstream and upstream that you a guarantee downstream, upstream and priority and disp F Enable QoS ISP Bandwidth: Download 1024 KB's Upload Under IP Bandwidth: Download 512 KB's Upload Apply Changes Reset Bandwith Control Bandwith Control IP Address Range: 192 168 1.90 192 168 1.90 Guarantee Bandwidth: Download 1024 KB's Up Priority: High V Apply Changes Reset Current Bandwidth: Download 1024 KB's Up	Quality of Service First, assign total downstream and upstream that you applied from JSP. Second guarantee downstream, upstream and priority and display current settings in the second seco	Quality of Service First, assign total downstream and upstream that you applied from ISP. Second, set up the sp guarantee downstream, upstream and priority and display current settings in the table. Image: Second set up the sp guarantee downstream, upstream and priority and display current Bandwidth: Download 1024 KB's Upload 1024 KB's Image: Second set up the sp guarantee Bandwidth: Download 1024 KB's Upload 128 KB's Bandwidth Control Image: Second set up the sp guarantee Bandwidth: Download 1024 KB's Upload 1024 KB's Priority: High Apply Changes Reset Current Bandwidth: Download 1024 KB's Upload 1024 KB's Priority: High Apply Changes Reset Current Bandwidth: Download 1024 KB's Upload 1024 KB's Priority: High Apply Changes Reset Current Bandwidth Control Table: Town D Adde Tab Adde Downstream Targen(KB/dt) Priorit

Note how the added rules appear, as shown in **Figure 19.**

			STORE THE		WWW.LAN-F
Site contents: Status Status Operation Mode Wirreless LAN Interface WAN Int	Quality of Service First, assign total downstream and u guarantee downstream, upstream an F Enable QoS ISP Bandwidth: Download 1024 Undef IP Bandwidth: Download Apply Changes Bandwidth-Control IP Address Range: Guarantee Bandwidth: Download Priority: High Apply Changes	pstream that you a d priority and displ KB/s Upload 1 Z KB/s Uploa L KB/s Up KB/s Up	applied from ISP. Secco lay current settings in 1024 KB/s ad 1128 KB/s load KB/	ond, set up the sp the table.	ecific ip address'
	Current Bandwidth Control Table:	Downstream	Enstmann (V.D.(s)	Pulaultu	Salaat
	102 168 1 100 102 168 1 200	(KB/s)	120	Low	-
	- 100 Martin		120	LOW	3 10

Figure 19