

**123 Manual, LP-288ai V2.0 TURBO OFDM Compact outdoor radio with throughput booster.  
ENABLE OR DISABLE PWL MODE IN FIRMWARE V2.0.3B5P0T2E1**

LP288aiV23B5\_M123\_ENF01W



**123 Manual, LP-288ai V2.0  
TURBO OFDM Compact Outdoor  
Radio With Throughput Booster.  
ENABLE OR DISABLE  
PWL MODE IN FIRMWARE  
V2.0.3B5P0T2E1**

The firmware has the PWL mode activated by default. In order to be compatible with other firmware versions or equipment under 802.11a standard, you shall change the PWL operation mode which is described in the following document:

**NOTE:** By using the PWL (*Proprietary Wireless Link*) the processing characteristics and the transmission frames that will be sent through the radio link are changed. This is because when activating the PWL the **Small Packet Optimization** function is used, which segments the data flow into smaller frames allowing the increase of the transmission rate. The management of smaller frames requires transmitting and receiving devices compatible with such technology, therefore it is necessary to disable the PWL in case you need to interconnect the LP-288ai with any other device under IEEE 802.11a standard.

For the purpose of this document, the operating system used is Windows XP. In case you have another operating system, please refer to the help section about how to invoke TELNET command or you can use any third party software with that protocol.

## 1

Select **Start, Run**, type **cmd** command, and then click on **OK**, as shown in **Figure 1**.

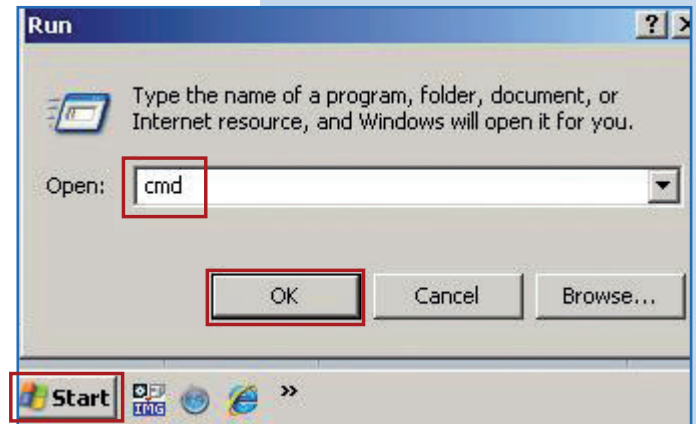


Figure 1

## 2

In the command window type **telnet** followed by the LP-288ai IP, as shown in **Figure 2**.

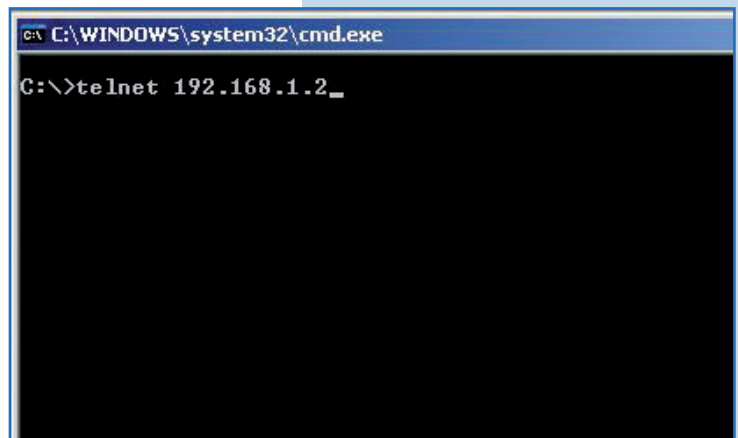
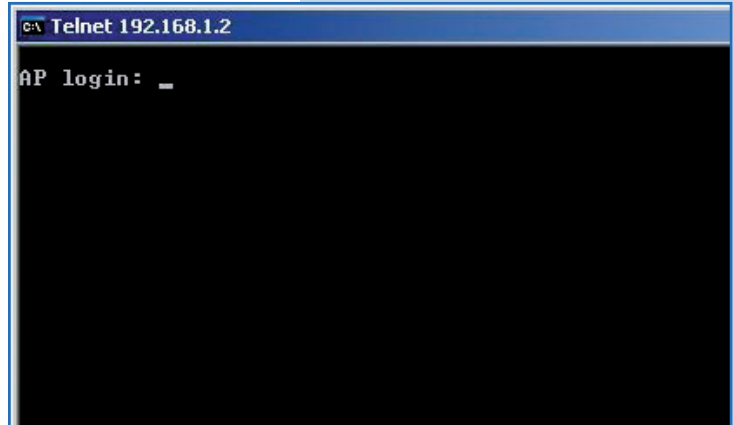


Figure 2

**3**


You will be asked to enter the user name, as shown in **Figure 3**. Type **admin** and press **enter**.

A terminal window titled 'Telnet 192.168.1.2' with a black background and white text. The prompt 'AP login: \_' is displayed, where the underscore indicates the cursor position.

```
C:\> Telnet 192.168.1.2
AP login: _
```

**Figure 3****4**

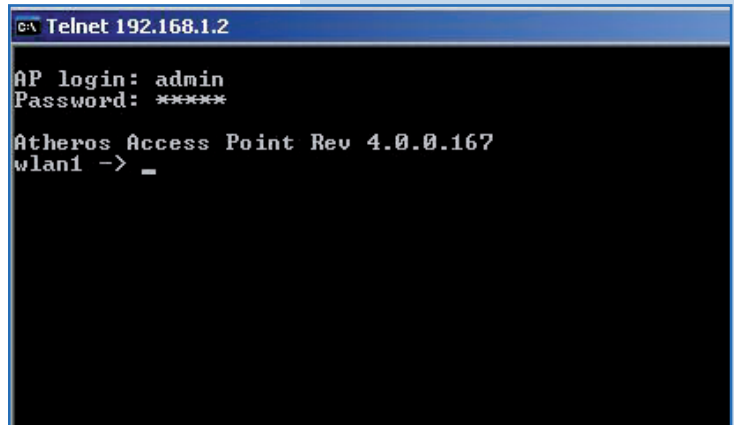
You will be asked to enter the password. Type **admin** and press **enter**, as shown in **Figure 4**.

A terminal window titled 'Telnet 192.168.1.2' with a black background and white text. The prompts 'AP login: admin' and 'Password: \*\*\*\*\*' are displayed, with the asterisks representing the masked password.

```
C:\> Telnet 192.168.1.2
AP login: admin
Password: *****
```

**Figure 4****5**

The welcome screen to the configuration via telnet will be displayed, as shown in **Figure 5**.

A terminal window titled 'Telnet 192.168.1.2' with a black background and white text. It shows the login prompts from the previous step, followed by the device's welcome message and the configuration prompt.

```
C:\> Telnet 192.168.1.2
AP login: admin
Password: *****
Atheros Access Point Rev 4.0.0.167
wlan1 -> _
```

**Figure 5**

## 6

Enter **get pwl** command for PWL status query, as shown in **Figure 6** and press **enter**.

Figure 6

```
C:\ Telnet 192.168.1.2
AP login: admin
Password: *****
Atheros Access Point Rev 4.0.0.167
wlan1 -> get pwl_
```

## 7

You may verify if PWL is enabled or not. In **Figure 7** it is enabled.

Figure 7

```
C:\ Telnet 192.168.1.2
AP login: admin
Password: *****
Atheros Access Point Rev 4.0.0.167
wlan1 -> get pwl
Proprietary Wireless Link [Enabled]
PWL ID [32]
wlan1 -> _
```

## 8

To disable PWL type **set pwl dis** command, as shown in **Figure 8** and press enter. In case you want to enable it you shall type **set pwl en** command.

Figure 8

```
C:\ Telnet 192.168.1.2
AP login: admin
Password: *****
Atheros Access Point Rev 4.0.0.167
wlan1 -> get pwl
Proprietary Wireless Link [Enabled]
PWL ID [32]
wlan1 -> set pwl dis
```

## 9

You will be notified that the PWL is disabled or enabled as the case may be, as shown in **Figure 9**.

Figure 9

```
C:\ Telnet 192.168.1.2
AP login: admin
Password: *****

Atheros Access Point Rev 4.0.0.167
wlan1 -> get pwl
Proprietary Wireless Link [Enabled]
PWL ID [32]
wlan1 -> set pwl dis
Proprietary Wireless Link is Disabled
wlan1 -> _
```

## 10

Type **re** command, as shown in **Figure 10** and press **enter**.

Figure 10

```
C:\ Telnet 192.168.1.2
AP login: admin
Password: *****

Atheros Access Point Rev 4.0.0.167
wlan1 -> get pwl
Proprietary Wireless Link [Enabled]
PWL ID [32]
wlan1 -> set pwl dis
Proprietary Wireless Link is Disabled
wlan1 -> re_
```

## 11

You will be asked if you want to confirm changes, as shown in **Figure 11**. Type **Y** and press **enter**.

Figure 11

```
C:\ Telnet 192.168.1.2
AP login: admin
Password: *****

Atheros Access Point Rev 4.0.0.167
wlan1 -> get pwl
Proprietary Wireless Link [Enabled]
PWL ID [32]
wlan1 -> set pwl dis
Proprietary Wireless Link is Disabled
wlan1 -> re
Do you want to save the current configuration [y]:
```

**12**

The equipment will save changes and reset, which finishes telnet session, as shown in **Figure 12**.

**Figure 12**

```
C:\ Command Prompt

AP login: admin
Password: *****

Atheros Access Point Rev 4.0.0.167
wlan1 -> get pwl
Proprietary Wireless Link [Enabled]
PWL ID [32]
wlan1 -> set pwl dis
Proprietary Wireless Link is Disabled
wlan1 -> re
Do you want to save the current configuration [y]: y
copying file /fl/apcfg -> /fl/apcfg.bak
Copy OK: 10337 bytes copied
apCfgFileVerify : INFO - [/fl/apcfg] is OK.
Reboot called at rebootCmdHandler:7720
Rebooting AP...

Connection to host lost.

C:\>
```

**13**

In **Figure 13** the procedure for enabling PWL is shown (in case you want to do it).

**Figure 13**

```
C:\ Command Prompt

AP login: admin
Password: *****

Atheros Access Point Rev 4.0.0.167
wlan1 -> pwl
Unknown command: pwl
Type "help" for a list of valid commands.
wlan1 -> get pwl
Proprietary Wireless Link [Disabled]
PWL ID [32]
wlan1 -> set pwl en
Proprietary Wireless Link is Enabled
wlan1 -> re
Do you want to save the current configuration [y]: y
copying file /fl/apcfg -> /fl/apcfg.bak
Copy OK: 10338 bytes copied
apCfgFileVerify : INFO - [/fl/apcfg] is OK.
Reboot called at rebootCmdHandler:7720
Rebooting AP...

Connection to host lost.

C:\>
```