How to setup 2 x Jensen 11n routers in repeater mode (WDS)

1. **Before you start**
2. **Setup**
3. **Test your setup**

1. edition - Oktober 2009

1 Before you start

This guide show goes trough the repeater setup for two Jensen 11n routers. By follow this guide you will be able to use your second 11n router to expand router wireless network.

1. On the label of your 11n router (found on the bottom side), you will se the MAC adress of your router. Please write this down on a peace of paper. LAN MAC adress is the same as WLAN MAC adress as we will refer to during setup.

In this example we have the following setup :
(Remember to use your own MAC adress. The MAC adresses from this example will not work.)

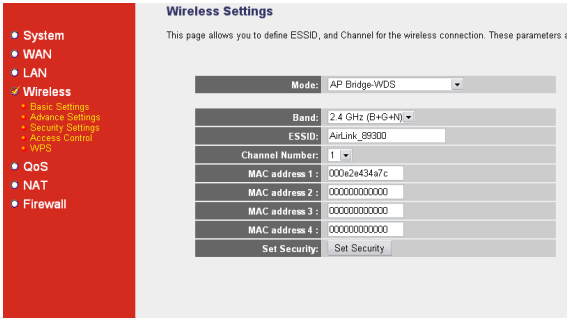
Router 1 (main router)
Main router is the router that are connected to the internett.
Ip adress : 192.168.0.1 (standard)
DHCP server : enabled
SSID : AirLink_89300
WLAN MAC : 000E2EE60435 (example)
Channel : 1
Encryption = disabled.

Router 2
IP adress : 192.168.0.2
DHCP server : Disabled
SSID : AirLink_89300
WLAN MAC : 000E2E434A7C (example)
Channel : 1
Encryption = disabled

In this example we don't use encryption, so if you have a encrypted network, please make sure you use same encryption on both units.

2 Setup of router 2

Connect your computer to router 2 and log in with this adress :
http://192.168.0.1
Standard username is ”**admin**” and password is ”**1234**”.

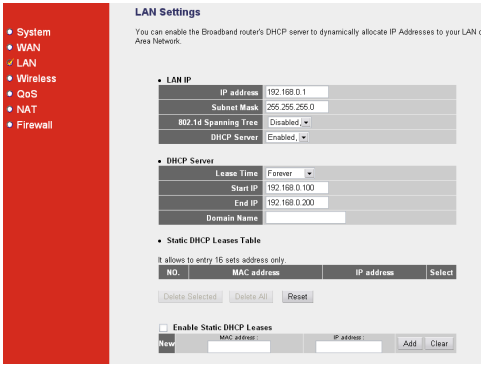


Click **General Setup** -> **Wireless** -> **Basic settings**.

Do the following settings :
Mode = AP Bridge+WDS
SSID = AirLink_89300
Channel = 1

In MAC adress 1 field, you must enter LAN MAC adress for router 1.

Click **Apply** and **Continue** to save settings.



Choose **General Setup -> LAN**.

Change IPadress to :
192.168.0.2.

Make sure DHCP server is set to **Disabled**.

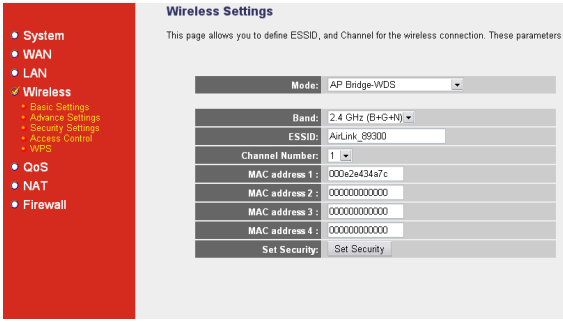
Click **Apply** and **Apply** to save settings. The router will now reboot.

Wait 30 seconds and then disconnect computer from router 2.

PS! If you wish to use another channel than 1, please make sure that both router use the same channel. If set to different channels the two routers will not communicate with each other.

2 Setup of router 1 (main router)

Connect your computer to router 1 and log in with this adress :
http://192.168.0.1
Standard username is ”**admin**” and password is ”**1234**”.



Click **General Setup** -> **Wireless** -> **Basic settings**.

Do the following settings :
Mode = AP Bridge+WDS
SSID = AirLink_89300
Channel = 1

In MAC adress 1 field, you must enter LAN MAC adress for router 2.

Click **Apply** and **Continue** to save settings.

PS! If you wish to use another channel than 1, please make sure that both router use the same channel. If set to different channels the two routers will not communicate with each other.

The WDS repeater is now completed.

On next page you can test to see if the two routers have contact with each other.

3 Test your setup

To do this final test make sure the two routers is connected to power, and then place router 2 near to router 1.

Connect your computer to your wireless network (AirLink_89300).

Click**Start** -> **Run**, Enter **Command** and click **OK**. (Windows XP)
Click **Start** -> **Programs** -> **Accessories** -> **Dos Prompt**. (Vista / 7)

To test if your computer have contact with router 2 :
Enter **ping 192.168.0.2** and click **Enter**.
If you have contact, you will get four lines telling :
"Reply from 192.168.0.2…"

To test if your computer have contact with router 2 :
Enter **ping 192.168.0.1** and click **Enter**.
If you have contact, you will get four lines telling :
"Reply from 192.168.0.1…"

If you get answer (reply from…) from both router it means the WDS setup is working. The final step is placing router 2 where you want to expand your wireless network. Please note that router 2 needs a good signal from router 1 in order to work properly.

Summary :

This settings need to be set on both routers :

*** Equal channel**
*** Equal SSID (network name)**
*** Equal encryption type and code (If used)**
*** Different IP adresses (ex. 192.168.0.1 and 192.168.0.2)**
*** MAC adress from opposite router.**
*** DHCP server on router 2 must be disabled.**