

Dension Wi-Drive

Dension Wi-Drive creates a WiFi hotspot using the internet connection of a 3G USB modem.



Quick start

If you are an advanced user, you can set up your Wi-Drive following these 6 steps:

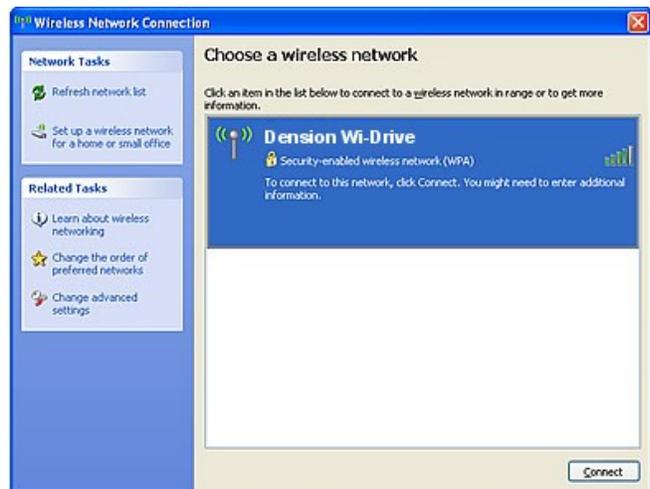
1. Power up Wi-Drive with the 3G modem connected to the lower connector of the double USB port
2. Connect to the WiFi network "*Dension Wi-Drive*"
3. Go to the administration page at the address "*www.wi-drive*"
4. Enter the default administration password: "*admin*"
5. Set up your internet and WiFi preferences
6. Save the settings and reconnect to the WiDrive

1 Setup

Once Wi-Drive is installed in your car, you can begin with setting up its internet connection settings and adjust WiFi parameters.

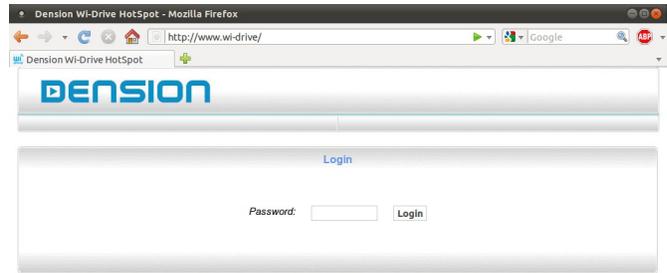
You will need to be in the WiFi range of Wi-Drive and it needs to be powered on (the MOD light should flash slowly in green colour).

1. Using the WiFi connection manager of your computer, connect to the WiFi network "*Dension Wi-Drive*"



2. Open a web browser (e.g. Internet Explorer) on your computer and enter the address "www.widrive" to get to the administration page of the device.

Enter the default administration password "admin" and click the Login button.

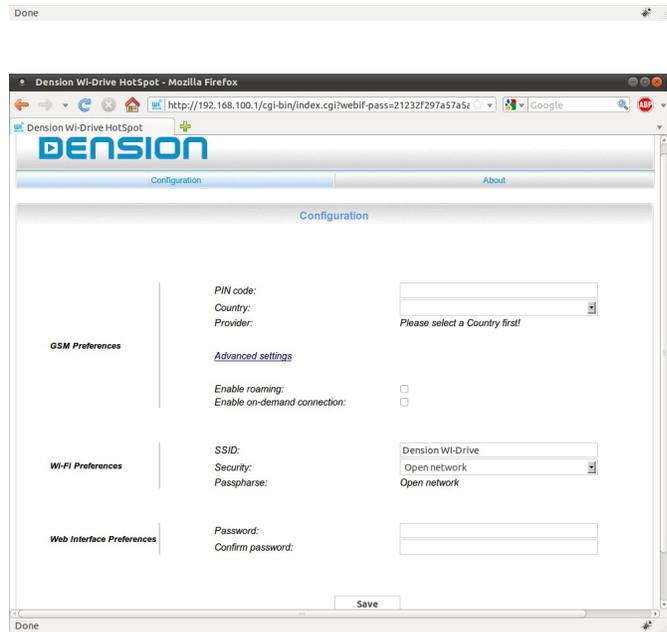


3. You are now on the settings page of your Wi-Drive, where you can set up your internet connection and WiFi preferences.

Please consult the description of each setting in the table below, and set them accordingly.

After you are finished, click the Save button.

If you have altered the WiFi preferences (Network name, Security, or Passphrase), you need to re-connect your computer to the new WiFi network.



1.1 Settings

Section	Setting	Description
GSM Preferences		
	PIN code	If the SIM card inserted in your 3G modem requires a PIN code, enter it here
	Country	Select the country where your mobile network operator is in
	Provider	Select your provider from the list, and if available also your data subscription plan (e.g. pre-paid, contract, etc.)
	Advanced Settings	<p>You only need to set this if</p> <ul style="list-style-type: none">• Your provider is not listed in the above selection• You use a non-standard data subscription with custom settings• You have trouble connecting to the internet through Wi-Drive <p>In the above cases, please contact your mobile network operator and ask for these settings (APN, username, password, DNS servers, gateway).</p>
	Enable roaming	Check this box if you also want Wi-Drive to connect to foreign networks. Beware of high data roaming costs.
	Enable on-demand connection	Check this box if you want Wi-Drive to only connect to the internet when there is an actual request from a connected computer. This is useful for time-limited data subscriptions.
Wi-Fi Preferences		
	SSID	The WiFi network name with which Wi-Drive will appear to other WiFi devices
	Security	<p>You can select between</p> <ul style="list-style-type: none">• <i>Open network</i>: In this mode, anyone will be able to connect to Wi-Drive without a password.

- *WPA2 Pre-Shared key:*
Clients will be required to enter the passphrase (password) that you set up

Passphrase The password used to connect to Wi-Drive in WPA2 mode.

Web Interface Preferences

Password, Confirm password The password for the administration page you are at. With this, you can prevent users from changing your settings.

1.2 "About" page

The "About" tab on the administration web page contains information about your Wi-Drive device, like its serial number and software version.

Should you need to contact Technical Support, please include this information in your request.

The page also informs you about your internet connection status.

2 LEDs and Buttons

2.1 LED flashes and their meaning

Wi-Drive indicates its status via the dual-color LED with the label "MOD".

Red	Green	State
Very slow	-	Standby
Fast	Fast	Powering up
-	Solid	Initializing
-	Slow	Ready, no 3G connection
Fast	Fast	Ready, 3G connection established
Slow	-	Software upgrade in progress

2.2 Push button

The push button on the front left side of the device allows two advanced functions:

Length	Function	Usage
Two short presses	System reset	Use this function if Wi-Drive becomes unresponsive in any state
Very long press (>15 secs)	Restore factory defaults	If you forgot the administration password, or you want to restart configuration from the default settings.

3 Operation

If your Wi-Drive is installed and fully set up, it will power up when the ignition of the car is on.

After powering up, it will connect to the internet and you can start using the WiFi hotspot.

When the ignition of the car goes off, Wi-Drive will power down, and stay in a low-power standby mode.

4 Troubleshooting

In case Wi-Drive does not work as expected, check the followings:

Problem	Resolution
Cannot connect to Wi-Drive over Wi-Fi	<ul style="list-style-type: none">• Check whether Wi-Drive is powered on• Check the network settings on your computer• Make sure you did try to connect to Wi-Drives WiFi network and use the correct password• Perform a system reset via the push button• Restore the factory default settings
Cannot connect to the internet via Wi-Drive	<ul style="list-style-type: none">• Ensure that the 3G modem is inserted firmly into the USB connector• Ensure that your GSM Preferences are set up correctly (contact your network operator if necessary)• Check whether Wi-Drive could establish an internet connection (on the About tab of the administration

- page)
- Try to connect to the internet with your 3G modem on a computer to see if it works

5 Firmware Upgrade

The operating system of Wi-Drive (firmware) can be upgraded via connecting a USB disk to one of the USB ports.

For detailed instructions, consult the Release Notes that came with your firmware upgrade package.

6 Default settings

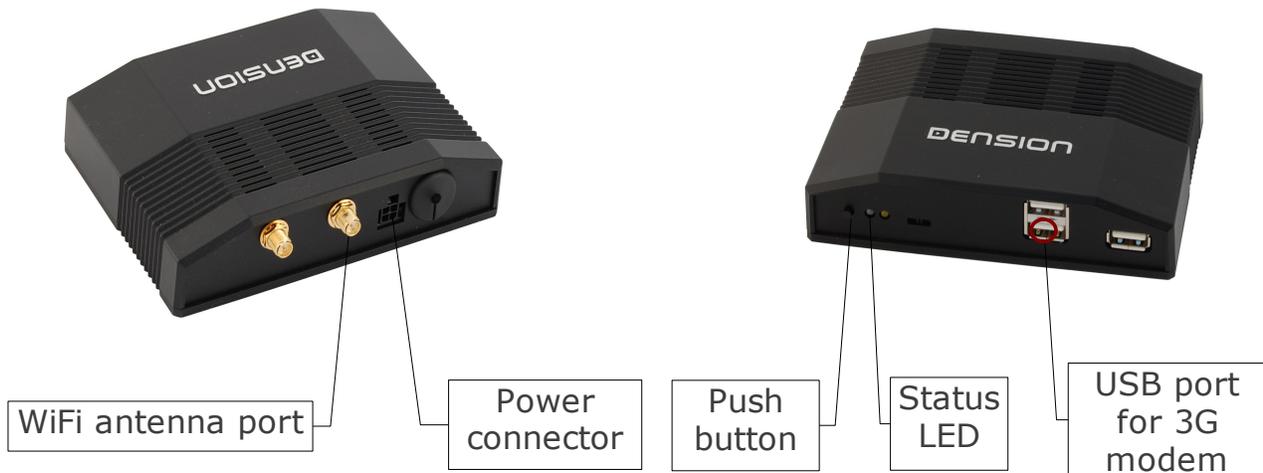
WiFi network name (SSID)	"Dension Wi-Drive" (open network)
Administration page	www.widrive (192.168.100.1)
Administration password	"admin"

7 Technical specifications

Operating Voltage	10.7 - 16V
Active Current	max. 400mA + 3G modem use (~400mA) @ 12V
Standby Current	100 uA
Maximum USB supply	1.5 Amp @ 5V
Operating temperature	-20 ~ +60 C
WiFi operating distance	~10 meters w/o antenna, ~30 meters with antenna Coverage depends on installation and environment
WiFi maximum users	6

8 Installation

8.1 *Wi-Drive connectors*



All non-described ports, connectors and switches are not used, and should remain unconnected.

Wi-Drive can be installed in two ways:

8.2 *Plug & Play*

For a plug and play connection follow these steps:

1. Connect the cigarette lighter cable to the power connector of Wi-Drive
2. Connect the USB 3G modem to the lower connector of the double USB port
3. Connect the cigarette lighter adapter to the socket in your car
4. Follow the **Setup** guide in chapter 1

Note:

For a plug and play installation, connecting a WiFi antenna is not necessary. Wi-Drive will still be able to operate within a 10 meter range.

8.3 Fixed installation

If you want to have a fixed installation, with Wi-Drive possibly hidden, follow these steps:

1. Connect the wire power wire harness to the cars electrical system.
The red wire needs to be connected to constant +12V with a supply of 1 Amps at least.
2. Connect the USB 3G modem to the lower connector of the double USB port
3. Connect the power wire harness connector to Wi-Drive
4. Follow the **Setup** guide in chapter 1

Hint: You can increase 3G reception quality if you place the 3G modem near to a window, or other non-covered area. Use a good quality standard USB extension cable.