
Portable Wi-Fi Router

DWR-330 User Manual



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1 Introduction

DWR-330 is a HSIA Wi-Fi device, working in EV-DO network. This device is a Wi-Fi router. It can provide up to 8 connections to various Wi-Fi devices such as smart phones, laptops, or tablet PCs. This quick guide provides instructions on how to use and get started with the product. For information about connection of services, please consult your service provider.

1.1. Features









- Built-in HSIA modem module
 - Downlink throughput up to 3.1Mbps
 - Uplink throughput up to 1.8Mbps
- WWAN connection
 - CDMA2000 EVDO Rev. A
 - Compatible to CDMA 2000 EVDO Rev 0 and CDMA 2000 1x RTT, IS-95 A/B.
- Wi-Fi 802.11 b/g/n
- Built-in firewall to protect your Internet
- Share internet connection with 8 Wi-Fi devices
- Micro USB interface
- Multi-color LED indicating status of network connection
- Support Microsoft Windows XP / Vista / Windows 7/Windows 8
- Support Linux
- Support Mac OS 10.5/10.6/10.7/10.8/10.9
- Antenna
 - One Internal EVDO main antenna
 - One Internal EVDO diversity antenna
 - One Internal Wi-Fi antenna

1.2. Product Overview

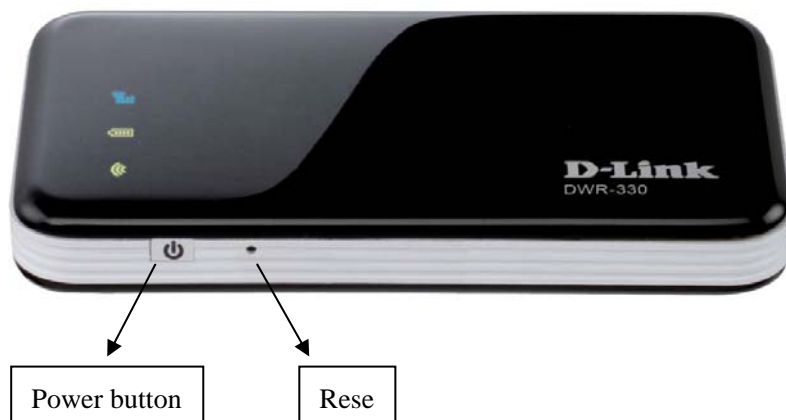
- Appearance



- LED indicator:

indicator	Color	Solid	Blinking	Comment
Wi-Fi 	Green	Router mode	Transmitting	--
Battery 	Red	0%~30% capacity without charger	Less than 30% capacity when charging	--
Battery 	Green	60% to 30% capacity without charger	60%~30% capacity when charging	--
Battery 	Blue	99%~60% capacity without charger; 100% Charging to full;	99%~60% capacity when charging	--
Signal 	off	--	--	standby
Signal 	Red	No Service (Error)	--	--
Signal 	Green	CDMA1X	DATA Transmitting(quick) Connected without DATA(slow)	--
Signal 	Blue	EVDO	DATA Transmitting(quick) Connected without DATA(slow)	--

- Button:



-
- Power button:
Press 3 seconds to turn on or turn off the device
 - Reset: For system reset to default setting (Press 3 seconds)

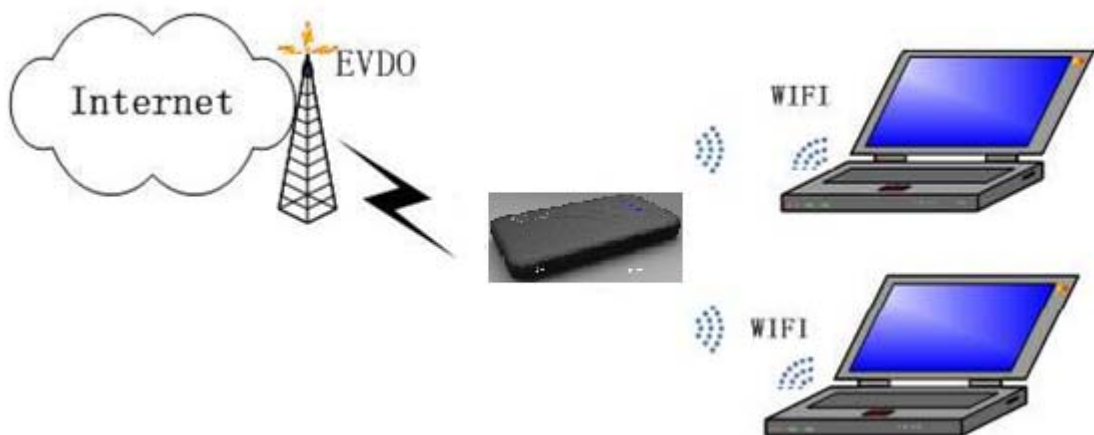
- Micro USB port:

Charging via a USB cable.



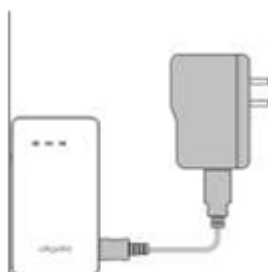
- Router mode

Please refer to the illustration below for Wi-Fi Router mode. The HSIA Mobile Router can provide up to 8 Wi-Fi connections for various Wi-Fi devices to share the HSIA mobile broadband service.



- Battery charging by computer or USB adapter

Method 1: Connect device to the USB adapter with USB cable and plug power adaptor into an appropriate wall outlet



Method 2: Connect device with PC USB port by the USB cable.



2. Connect to the internet

The Wi-Fi Router mode can provide 8 Wi-Fi connections to share the HSPA mobile broadband.

2.1 Wi-Fi Router mode

The product is used standalone and computers are connected to with Wi-Fi link and in turn connect to Internet via HSPA network. The Battery is used in this case, and charging can be provided by one of the computer USB port or with separated charger.

Step 1. Put the battery in the device.

Step 2. Push the power button 3 seconds.

Step 3. Join the Wi-Fi network.

Step 4. Open the web browser and enter 192.168.0.1 in the address bar.

Step 5. Enter **admin** in user name & password Field.

Step 6. Click **WLAN** -> **WLAN Basic Settings** on the left menu and select **WPA2-PSK** for the encryption type, and set **WPA KEY** in 8-63 alphanumeric characters.

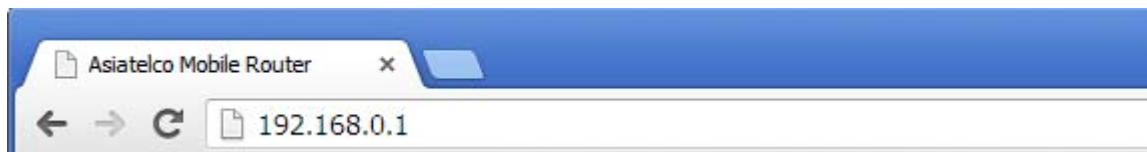
Step 7. Join the Wi-Fi network again with your password.

***WIFI Channel 12 & Channel 13 is not available in final product. The hardware is disabled inside.

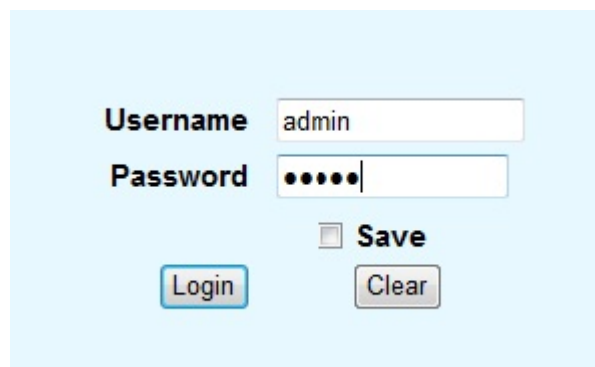
3. Router Web-based settings

DWR330 has built-in web page interface for users to configure router settings. Before you start using web browser to configure the Router, please make your client device is connecting to it.

The default IP address is “**192.168.0.1**”, and you may use any web browser, such as Microsoft Internet Explorer, Firefox, Safari, Google Chrome and Opera, to perform following configurations. Please open your preferred web browser and enter the IP address **192.168.0.1** in the address bar. And press **Enter**.



When following window appears, enter user name and password and click **OK** to enter the configuration page. The default user name and password are **admin**.



A login form with a light blue background. It contains two input fields: 'Username' with the text 'admin' and 'Password' with six dots. Below the password field is a checkbox labeled 'Save'. At the bottom are two buttons: 'Login' and 'Clear'.

3.1 Status

1) Status

After entering the correct IP address and loading to the first web-page, you will see the Status page. It is the default page for device.

Internet

Connection Status: Connected	Preferred Mode: EVDO
Received Packets: 902KB	IP: 101.82.65.104
Transmitted Packets: 41KB	Subnet Mask: 255.255.255.255
Connection Time: 49s	Gateway: 101.82.65.104
Signal Strength: 	DNS: 101.82.65.104
Connect Button: <input type="button" value="Disconnect"/>	Battery Power: 

Wireless

Wireless Mode: 802.11b/g/n	IP: 192.168.0.1
Security Type: Open	Subnet Mask: 255.255.255.0
SSID: DWR330_4FA086	MAC Address: 00:0B:6C:4F:A0:F6
Channel: 11	DHCP Server: Enable
IP Range: 192.168.0.2~192.168.0.10	

- **Connect:** Press "Connect" button to connect to the internet.
- **Disconnect:** Press "Disconnect" button to disconnect the internet.

Note: Connect and Disconnect button will brighten clickable when you set Connection Mode to Manual.

2) DHCP Client List

It shows IP/IP Type/Hostname/MAC address for each associated network client connected to this device.

DHCP Client List

IP	IP Type	Hostname	MAC Address
192.168.0.2	DHCP	DELL-PC	70:1A:04:3C:0B:E2

- **Refresh:** Refresh the Client list.

3.2 Dial up

1) Mobile Connection




Mobile Connection

Connection Mode:

Apply

- **Automatic:** The mobile network connection is always maintained.
- **Manual:** You have to open "Status-> Status" web setting page and click the "Connect" button manually to connect to network.

2) Profile Management



Profile Management

Dial Number:

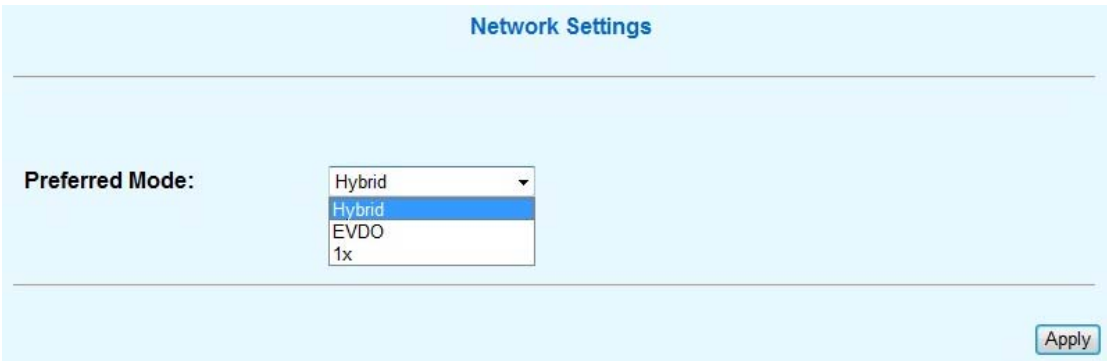
Username:

Password:

Apply

- **Dial Number, Username and Password:** You can check **Dial Number, Username** and **Password** here.

3) Network Settings



Network Settings

Preferred Mode:

Apply

- **Preferred Mode:** You can select network mode: Hybrid/EVDO/1x, then press **<Apply>** to save the setting.

3.3 WLAN

1) WLAN Basic Settings

WLAN Basic Settings

If Encryption mode is set to WEP or TKIP, a wireless network adapter working in 802.11n only mode may fail to access the Mobile WiFi.

SSID:

Broadcast SSID:

Security Type:

WPA Algorithms:

WPA Key:
(8-63 character)

Show key

- **SSID:** Service Set Identifier. The SSID of device appears in the wireless network. You can assign an ID up to 32 characters here.
- **Broadcast SSID:** It is enabled by default, and anyone can see this device in the wireless network. If it is disabled, any network client wants to connect to this device has to enter the correct SSID manually from a client before the client accesses the Wi-Fi.
- **Security Type:** We highly recommend you to select one of the encryption types to secure your wireless connection when using this device. Please make sure your Wi-Fi client device can support the encryption mode you selected.
- **Open:** Open System authentication. If this mode is selected, clients can access the Wi-Fi without entering any security key.
- **WEP:** Wired Equivalent Privacy. To access the Wi-Fi, clients must enter the Wired Equivalent Privacy (WEP) key that matches the key set on the web UI.
- **WPA-PSK:** This data encryption method uses a random 256-bit key.
- **WPA2-PSK:** This is the second version of WPA-PSK and is more secure than WPA-PSK.
- **WPA/WPA2 Mixed:** Both WPA-PSK and WPA2-PSK encryption modes are supported. Clients can access the Wi-Fi in WPA-PSK or WPA2-PSK mode.

Note: - The Default Security type is WPA2-PSK.the default key is “1234567890”.

2) Advanced Settings

WLAN Advanced Settings

Channel: AUTO

Wireless Mode: 802.11b/g/n

Power Save: Level 3 (Default)

Apply Cancel

- **Channel:** You can change the Wi-Fi radio channel in this drop-down menu.
- **Wireless Mode:**
 - **802.11b:** Only clients that support the 802.11b standard are allowed to access the **Mobile Wi-Fi**. The maximum rate for wireless transmission is 11 Mbit/s.
 - **802.11g:** Only clients that support the 802.11g standard are allowed to access the **Mobile Wi-Fi**. The maximum rate for wireless transmission is 54 Mbit/s.
 - **802.11b/g:** Clients that support the 802.11b or 802.11g standard are allowed to access the **Mobile Wi-Fi**.
 - **802.11b/g/n:** Clients that support the 802.11b or 802.11g or 802.11n standard.

3) WLAN MAC Filter

The MAC address filter function is for access control from the wireless network.

WLAN MAC Filter

Set MAC address filtering mode in the WLAN MAC Filter drop-down list box.

(1) Disable: Disable the WLAN MAC filter.
(2) Allow: Allow a client to connect to the device using the WLAN if the client's MAC address exists in the MAC Address list.
(3) Deny: Deny a client's connection to the device using the WLAN if the client's MAC address exists in the MAC Address list.

MAC Filter Enable: Disable

No	MAC
1	2
3	4
5	6
7	8
9	10

Apply Cancel

- **MAC Filter Enable:**
 - **Disable:** Select **Disable** to disable the function of filtering MAC addresses.
 - **Allow:** If the MAC address of a client is listed in MAC Address, the client is allowed to connect to the device over the Wi-Fi.
 - **Deny:** If the MAC address of a client is listed in MAC Address, the client is prohibited from connecting to the Wi-Fi over the Wi-Fi.
- **MAC Address List:** After enabling the MAC filter function, please enter each MAC address which is allowed to access this Wi-Fi router.

4) DHCP

DHCP

DHCP Server:

IP:

Subnet Mask:

IP Range: ~

Lease time: min

- **DHCP Server:** The device could be used as a DHCP server and assign IP address to the network client in your wireless network. The default is "Enable".
- **IP:** The IP address for administrator to log in the web setting page.
- **Subnet mask:** The subnet mask of this device is 255.255.255.0.
- **IP Range:** Specify the range of IP address that DHCP server can assign to the network client.
- **Lease time:** Enter a lease time in this place.

3.4 System

1) Device information

Device Information	
Device name:	DWR330
IMSI:	31000000001259
Hardware version:	A1
Software version:	1.00
Web UI version:	1.00
MEID:	A100003EE00003
WAN IP Address:	112.108.101.20

2) Modify Password

Modify Password

Username:

Password:

- **Password:** The default username and password are "admin". You can change username and password here to login setting page.

3) Restore Defaults

Restore Defaults

Click the button below to restore device to its factory settings

- **Restore Default:** Press this button to restore to factory default settings.

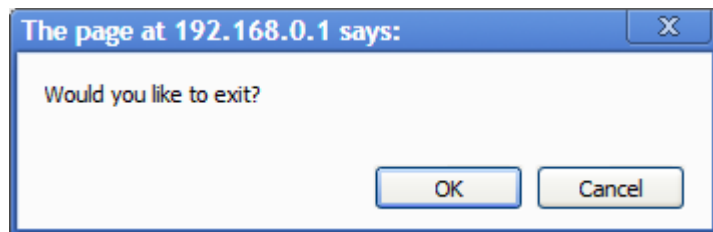
4) Reboot

Reboot

Click the button below to restart the device.

- **Reboot:** Restart your Device.

5) Logout



- **Logout:** Click logout button and confirm to login out.

4 Troubleshooting

1. Why can't I access to the web setting page in HSIA Router mode?

Ans:

1. Please check if the LED is illuminating.
2. Please make sure if you Clients has connected to device.
3. The default IP address is 192.168.0.1, please make sure you have typed it correctly in your web browser. If you have change the Login IP Address and forgotten it, please restore device to the default.
4. If the DHCP service is not enabled and the clients are set to obtain IP addresses dynamically, the clients cannot access the Internet. In this case, enable the DHCP service. For details, see "DHCP-DHCP Server".

2. How to restore to default router settings?

Ans: Find a pinpoint and stab into "Reset" hole for 3 seconds.

OR

1. Please connect to **Mobile WIFI Router** and log in the router web setting page, the default IP address is <http://192.168.0.1>.
2. Open the page for "System-> Restore Defaults" and click on "Restore" button.

3. Why the Signal LED is illuminating in RED?

Ans: Please make sure you are in a location covered by communication networks.

4. Why Clients Cannot Access the Internet Properly?

1. Please check if the LED is illuminating.
2. Please make sure if you Clients has connected to device.
3. Check if the PPP user name and password are correct.

5. Why can't I see SSID appears in the wireless network?

Ans:

1. Please make sure your device is start correctly.
2. Please check the web setting page and make sure you have select the "Enabled" radio button to enable the "Broadcast SSID".

6. Why multi-Network IP Address Conflict Occurs?

When multiple types of Internet connections are used simultaneously on the client, such as physical network adapter and Wi-Fi, inserting the Mobile WiFi into the client may result in IP address conflict across multiple networks. Please disable other network devices or disconnect other Internet connections from the client, and then restart the client.

5 FCC announcement

FCC Compliance:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

***This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radio Frequency (RF) Energy

This phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the United States. During SAR testing, this device is set to transmit at its highest certified power level in all tested frequency bands, and placed in positions that simulate RF exposure in usage near the body with the separation of 10 mm. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The exposure standard for wireless devices employs a unit of measurement known as

the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. This device is compliance with SAR for general population /uncontrolled exposure limits in ANSI/IEEE C95.1-1992 , and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: KA2WR330A1 . For this device, the highest reported SAR value for usage near the body is 1.281 W/kg. While there may be differences between the SAR levels of various product and at various positions, they all meet the government requirement. SAR compliance for body-worn operation is based on a separation distance of 10 mm between the unit and the human body. Carry this device at least 10 mm away from your body to ensure RF exposure level compliant or lower to the reported level.