

Please visit www.novatelwireless.com for the latest information about your MiFi.

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Introduction

This User Guide explains the use of the MiFi Settings browser interface that allows you to configure your MiFi as well as access its many features.

- 1: Getting Started with MiFi Settings
- 2: MiFi Settings
- 3: Reference

Your MiFi 2200

Thank you for purchasing a Novatel Wireless MiFi 2200 Intelligent Mobile Hotspot. This device offers more freedom than ever before. No wires, no cables, no software—configure it through your Web browser.



Help | Logout

Home GPS Password WIFI WWAN Advanced Novatel EVDO Rev.A Dormant

MiFi2200 Mobile Hotspot - Home

Internet Connection ▾

Connection Status:	Dormant	IP Address:	173.128.85.136
Roaming:	No	Mask:	255.255.255.255
Received:	219.68 KB	Gateway:	173.128.85.136
Transmitted:	178.87 KB	DNS:	68.28.58.92
Connected Time:	00:02:41		

[Disconnect](#) [Setup Wizard](#)

WIFI ▶

GPS Local Search ▶

powered by

Getting More Information

This guide describes the MiFi Settings browser interface used for wireless configuration of MiFi. For information about setting up your MiFi with your service provider, device maintenance and care, etc., consult the printed Getting Started Guide that came with your MiFi.

For information about using your MiFi with a USB cable, including the MobiLink Connection Manager software, consult the Getting Started Guide or visit www.novatelwireless.com.

Getting Started with MiFi Settings

MiFi Settings Basics

- ◆ Overview (page 2)
- ◆ Opening the MiFi Settings (page 3)
- ◆ The Home Page (page 5)

Overview

Your MiFi uses a browser interface to configure its settings. The browser interface lets you:

- View the status of aspects of your network.
- Set up wireless security, including MAC filtering, port filtering, and port forwarding.
- Set up a secure temporary hotspot to allow a maximum of five connections to your MiFi without having to share your network name and network key.
- Use GPS technology to search for stores, restaurants, and other locations in your area.

Opening the MiFi Settings

Initial Connection and Setup

Note: The battery should be fully charged before using the MiFi 2200 for the first time.

Tip: The default SSID for your MiFi is MiFi2200 xxxx Secure. Your SSID and Network Key (11-digit number) will be printed on the back of your device. (The 'xxxx' are the last four characters of your MiFi's MAC address.)

When you press the power button:

- The MiFi 2200 comes on and the power button LED lights up.
- A solid green LED indicates the device is in service and ready to connect.

How to Connect to the MiFi 2200

1. Use the WiFi manager on your computer to select your MiFi's **MiFi2200 xxxx Secure** network name (SSID).
2. Click **Connect**.
3. Enter your password (11-digit number) when prompted for a security key.

Tip: The steps to connect to a WiFi network vary depending on your operating system and whether you use the native application or third-party software.

Generally you click an icon (often in the Windows notification area or System Preferences > Network on a Mac) where you can select "View Available Wireless Networks." If you are unfamiliar with wireless networking on your computer, consult the computer help system.

If this is your first time connecting to the MiFi 2200, continue with these steps.

4. From your computer's Web browser, enter ***http://mifi.admin*** into the address window and press the **Enter** or **Return** key.

An onscreen wizard will launch and guide you through activating your MiFi.

5. Enter the default login password “admin” when requested.
6. Follow the directions on the screen.

Important: Be sure to record the new administrative password and any network changes that you make.

7. After you click **Finish**, your MiFi will restart. If your network does not reconnect automatically, reconnect using your WiFi manager.

The MiFi Settings Web Address

When configuring your MiFi using its browser interface, you can use either of these addresses:

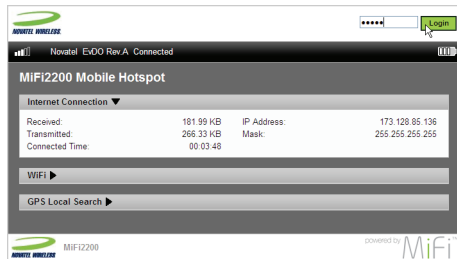
<http://mifi.admin>

-OR-

<http://192.168.1.1>

Open MiFi Settings

1. Open your Web browser and enter **<http://mifi.admin>** into the address window. (If this is the first time you have entered MiFi Settings or if you have used the master reset button, the Initial Setup Wizard will launch.)
2. Type the administrative password into the Login box in the upper right corner and click **Login**.



The Home page will open.

Help | Logout

Home GPS Password WiFi WWAN Advanced Novatel E:DO Rev.A Dormant

MiFi2200 Mobile Hotspot - Home

Internet Connection ▾

Connection Status:	Dormant	IP Address:	173.128.85.136
Roaming:	No	Mask:	255.255.255.255
Received:	219.68 KB	Gateway:	173.128.85.136
Transmitted:	178.87 KB	DNS:	68.28.58.92
Connected Time:	00:02:41		

[Disconnect](#) [Setup Wizard](#)

WiFi ▶

GPS Local Search ▶

MiFi2200 powered by MiFi™

The Home Page

The Home page is the first screen you see after logging in to the browser interface. It is the main point of entry for all your work in the browser interface.

The Menu Bar

The menu bar runs horizontally along the top of the MiFi Settings interface. Besides allowing you to select menu items, the menu bar also displays information about your MiFi's connection strength and battery level.

Help | Logout

Home GPS Password WiFi WWAN Advanced Novatel E:DO Rev.A Dormant

MiFi2200 Mobile Hotspot - Home

Internet Connection ▾

Connection Status:	Dormant	IP Address:	173.128.85.136
Roaming:	No	Mask:	255.255.255.255
Received:	219.68 KB	Gateway:	173.128.85.136
Transmitted:	178.87 KB	DNS:	68.28.58.92
Connected Time:	00:02:41		

[Disconnect](#) [Setup Wizard](#)

WiFi ▶

GPS Local Search ▶

MiFi2200 powered by MiFi™

Home Page Sections

The Home page is divided into three sections that you can expand or collapse. Click the solid black pointer next to the section title to expand or collapse that section.

Internet Connection

Internet Connection ▾			
Connection Status:	Connected	IP Address:	72.62.64.112
Roaming:	No	Mask:	255.255.255.255
Received:	51.67 KB	Gateway:	72.62.64.112
Transmitted:	65.00 KB	DNS:	68.28.58.92
Connected Time:	00:01:10		
Disconnect		Setup Wizard	

The Internet Connection section tells you:

- Your connection status.
- Whether or not you are roaming.
- The number of bytes received and transmitted.
- The duration of the current connection.
- The IP address of and subnet mask for your MiFi.

Connect / Disconnect Button

Use the Connect / Disconnect button to connect or disconnect from the network.

Setup Wizard Button

Use the Setup Wizard button to change the administrative password or your WiFi security settings without navigating the menus.

WiFi

WiFi ▾			
Profile:	Secure	IP Address:	192.168.1.1
Network Name:	MiFi2200 2FFE Secure	Mask:	255.255.255.0
Security:	WPA-TKIP		
Users :	1 / 5		

The WiFi section tells you:

- The profile currently in use.
- The network name (also known as the SSID).
- The security method in use.
- The number of users currently connected to your MiFi.
- The IP address of and subnet mask for the wireless browser interface.

To change WiFi settings, use the WiFi menu. See “WiFi Menu” on page 12.

GPS Local Search

See “GPS Local Search” on page 10.

2

MiFi Settings

GPS

- ◆ GPS Page Sections (page 8)

GPS settings allow you to enable and configure GPS searching for your MiFi.

GPS Page Sections

The GPS page is divided into three sections. You can expand or collapse the third section. Click the solid black pointer next to GPS Local Search to expand that section.

The screenshot shows the Novatel Wireless MiFi web interface. At the top, there is a navigation bar with links for Home, GPS, Password, WiFi, WWAN, and Advanced. The current page is titled "GPS". Below the navigation bar, the "GPS Status" section displays the following information:

GPS status:	Acquired	Latitude:	32.895
Last fix:	10/21/2009 00:18:39pm	Longitude:	-117.201
Horizontal accuracy:	82 ft	Altitude:	272 ft

Below the status section is the "GPS Configuration" section, which includes a checkbox for "Enable GPS" (checked) and a "Search Provider (Web site)" dropdown menu set to "Google". An "Apply" button is located to the right of the dropdown.

At the bottom of the configuration section is the "GPS Local Search" section, which is currently collapsed. A solid black pointer is visible next to the section title, indicating that it can be expanded.

The footer of the page includes the Novatel Wireless logo, the model number "MIF12200", and the text "powered by MiFi".

GPS Status

GPS Status			
GPS status:	Acquired	Latitude:	32.895
Last fix:	10/21/2009 00:18:39pm	Longitude:	-117.201
Horizontal accuracy:	82 ft	Altitude:	272 ft

Once a location fix has been made, the GPS Status section of the GPS page gives you the following information:

- Last fix — date and time of last fix
- Horizontal accuracy — a measure of how close an estimate of a GPS position is to the true location
- Latitude
- Longitude
- Altitude

GPS Configuration

GPS Configuration	
<input checked="" type="checkbox"/> Enable GPS	
Search Provider (Web site)	Google <input type="button" value="Apply"/>

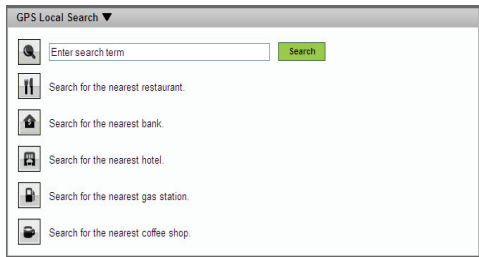
Use this section to configure the GPS settings.

1. Select the check box to turn on GPS.
2. In the Search provider list, click a search provider.
3. Click **Yes** to accept the GPS privacy agreement.
4. Click **Apply** to confirm the settings.

GPS Local Search

Once the GPS status changes from “Searching” to “Acquired,” you can search for restaurants, banks, hotels, gas stations, coffee shops or a specific address.

- ▶ Click the button next to the type of business you want to search for.
 - or –
- ▶ Enter a business name or an address in the search box and click **Search**.



Tip: If the GPS status does not change to Acquired, try moving the device close to a window or outdoors.

Password Settings

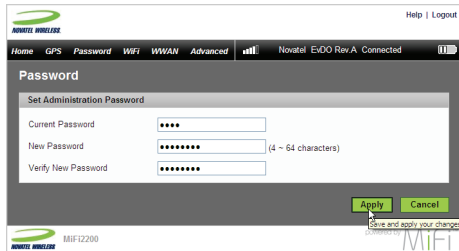
- ◆ Create a New Administrative Password (page 11)

Password settings allow you to change the administrative password that gives access to the browser interface.

Important: Record your administrative password. If you forget it, you will have to reset your MiFi before you can use the MiFi Settings interface again.

Create a New Administrative Password

1. Type your current password in the Current Password box.
2. Type the new password (must have 4 to 64 characters) in the New Password box and then again in the Verify New Password box.
3. Click **Apply**.



The screenshot shows the Novatel MiFi administrative interface. At the top, there is a navigation bar with 'Home', 'GPS', 'Password', 'WiFi', 'WWAN', and 'Advanced' tabs. The 'Password' tab is selected. Below the navigation bar, the page title is 'Password'. The main content area is titled 'Set Administration Password' and contains three input fields: 'Current Password' (with 4 dots), 'New Password' (with 6 dots and a note '(4 ~ 64 characters)'), and 'Verify New Password' (with 6 dots). At the bottom right of the form, there are two buttons: 'Apply' and 'Cancel'. A tooltip points to the 'Apply' button with the text 'Click and apply your changes'. The Novatel logo and 'MIFI2200' are visible at the bottom left, and the 'MIFI' logo is at the bottom right.

WiFi Menu

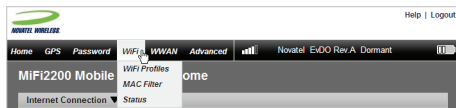
- ◆ WiFi Menu (page 12)

The WiFi menu allows you to work with profiles, set up a temporary hotspot, set MAC filters, and view status information for the WiFi network.

WiFi Menu

The WiFi menu has three components:

- **WiFi Profiles** — to view or change settings for your secure profile or to set up a temporary hotspot.
- **MAC Filter** — to allow only certain devices to connect to your MiFi.
- **Status** — to view profile information, see who is connected to your MiFi, and view the WiFi log. You can also retrieve your network key from this page.



WiFi Profiles

Click **WiFi Profiles** on the WiFi menu to configure your secure profile or set up a temporary hotspot.

The screenshot shows the 'WiFi Profile' configuration page on a MiFi2200 device. The page title is 'WiFi Profile' and it states 'WiFi Settings are stored in Profiles; there are 3 Profiles.' The configuration fields are as follows:

Field	Value
Profile	Secure
Network Name (SSID)	MiFi2200 2FFE Secure
802.11 Mode	802.11g + 802.11b
Channel	Auto
Security	WPA Personal/PSK
Authentication	Open Access
Encryption	TKIP
Network Key	09111998478 8 - 63 characters

At the bottom of the form are two buttons: 'Apply' and 'Revert'. The device status bar at the top shows 'Home', 'GPS', 'Password', 'WiFi', 'WWAN', 'Advanced', signal strength, 'Novatel EvDO Rev.A', and 'Dormant'. The bottom of the screen shows the 'MiFi2200' logo and 'powered by MiFi'.

The WiFi Profile Page

The WiFi Profile page displays the following information:

- Profile — The profile currently being used. (See “Choosing a Profile” on page 14.)
- Network Name (SSID) — Name of the network you are connected to. You can change the name to something more descriptive if you want, or if other devices are in use within range of yours. Some examples of network names would be:
 - Secure — MiFi2200 754B Secure
 - Open — MiFi2200 754B
 - Temporary Hotspot — MiFi2200 754B Temp

- 802.11 Mode — The type of wireless networking you are currently using. The available modes are:
 - 802.11g+802.11b
 - 802.11g
 - 802.11b
- Channel — The radio channel that the device is using. This should be usually set to Auto (default) and left unchanged. Available channels are 1 through 11.
- Security — The type of security the profile is using. This applies to the secure and the temporary hotspot profiles. (See “Setting Security” on page 15.)
- Authentication — Locked to Open Access for all profiles.
- Encryption — Displays the type of encryption for the security type in use.
- Network Key — Passcode or password used to access the network. The required format varies by type of security.

Choosing a Profile

- ▶ Select a profile from the Profile list:
 - Secure — This is the profile you should use most of the time. You can set up this profile with the security measures you need to use your MiFi safely.
 - Temporary Hotspot — This profile allows you to set up a secure temporary hotspot by generating a network key that can be shared with others (up to five) to connect to your MiFi on a temporary basis.
 - Open — This profile does not require a password to connect to your MiFi. Any user who can see your network name (SSID) can connect to your MiFi.

Setting Security

You can use WEP (64- or 128-bit), WPA Personal/PSK, WPA2 Personal PSK, or WPA/WPA2 Mixed Mode security.

Tip: *Some WiFi clients become confused if the security is changed and the network name is not. If you change security settings and do not get asked for the new network key when you try to reconnect, delete the existing "old" network name from your "Preferred Networks" list. Then you can reconnect using the new network name.*

Important: *Record your network key.*

1. From the WiFi Profile page, select **Secure** as the Profile.
2. Select a security protocol from the Security list. (The Encryption box displays the corresponding encryption level.)
3. Enter a new network key in the Network Key box. (Permissible characters are listed in gray just under the box.)
4. Click **Apply**. Your device will restart, and you must reconnect to your wireless network using the new network key.

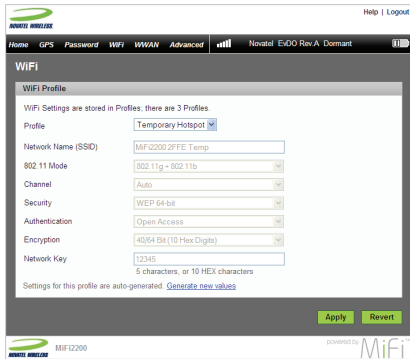
Setting Up a Temporary Hotspot

You can use this profile to create a secure temporary hotspot to allow a maximum of five connections to your MiFi at one time.

This profile generates a temporary network name and network key that you can use to allow others to connect to your MiFi without your having to change the security settings on your secure profile.

To set up the temporary hotspot

1. From the WiFi Profile page, select **Temporary Hotspot** as the profile.



You will see a new (temporary) network name (SSID) and network key. In the example shown above, the temporary network name is “MiFi2200 2FFE Temp” and the temporary network key is “12345.”

2. Click **Apply**. Your device will restart, and you must reconnect to your wireless network with the temporary network name and network key.

Members of your workgroup can now use the temporary network name and network key to connect to your device.

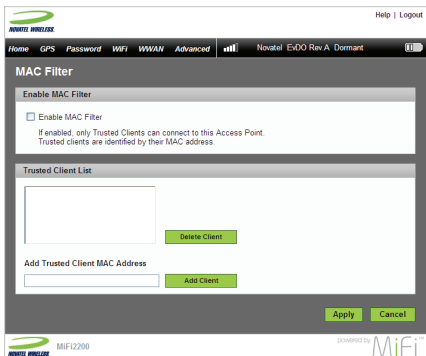
Tip: Click “Generate new values” to create a new network name and network key.

MAC Filter

MAC filtering allows you to limit access to your MiFi to only those devices with a specified MAC address (a unique code assigned to hardware such as network adapters).

The MAC Filter Page

The MAC Filter page allows you to enable or disable MAC filtering and to add or delete MAC addresses from the trusted client list.



Important: Do not enable MAC filtering unless you have added your own MAC address to the trusted client list. Otherwise you will be unable to access your MiFi.

Finding the MAC Address

The MAC Address is also known as a hardware or physical address for a device, usually a network adapter. It consists of six pairs of numbers and letters (for example, 00-21-9B-1C-64-34).

You can view the MAC address for any device connected to your MiFi in the WiFi Clients section of the WiFi Status page. (See “WiFi Clients” on page 19.)

- On a Windows machine, you can find the MAC address by running “ipconfig /all” from the cmd window. The MAC address is referred to as the Physical Address. (Select **Start > All Programs (or Programs) > Accessories > Command Prompt** to open the cmd window.)
- On a Mac, open **System Preferences > Network**. In the Show list, click **Airport**. The MAC address is the Airport ID.

Important: Make sure you get the MAC address for the wireless network adapter and not the Ethernet controller (NIC) if the machine has both.

Using MAC Filtering

1. From the MAC Filter page, type the MAC address for your computer into the Add Trusted Client MAC Address box and click **Add Client**. You can use either ":" or "-" as the separator (for example, **00:21:9B:1C:64:34** or **00-21-9B-1C-64-34**).

Tip: You can cut-and-paste your computer's address from the WiFi Clients section of the WiFi Status page. (See "WiFi Clients" on page 19.)

2. If desired, type the MAC address for other computers into the Add Trusted Client MAC Address box and click **Add Client**.
3. Select the Enable MAC Filter check box and click **Apply**.

Status

WiFi Status provides you with information about your wireless network.

The screenshot shows the 'WiFi Status' page. At the top, there is a navigation bar with 'Home', 'GPS', 'Password', 'WiFi', 'WWAN', and 'Advanced'. Below this, the 'WiFi Status' section is displayed. It includes the following information:

- Current Profile: Secure
- Channel: 1
- Network Name: MIF12200 2FFE Secure
- Mode: 802.11g + 802.11b
- Clients Connected: 1
- Security: WPA Personal/PSK
- Clients Allowed: 5
- Encryption: TKIP

There is a link for 'Network Key' under the Encryption field. Below this, the 'WiFi Clients' section contains a table with the following data:

IP Address	IP Type	Hostname	MAC Address	Date/Time
192.168.1.2	DHCP	pavillon	00:15:00:07:28:3B	10/21/2009 00:07:48pm

At the bottom of the WiFi Clients section, there is a 'Refresh' button. Below the table, there is a 'WiFi Log' button. The page footer includes the 'MIF12200' logo and 'powered by MiFi'.

The WiFi Status Page

The WiFi Status page is divided into three sections.

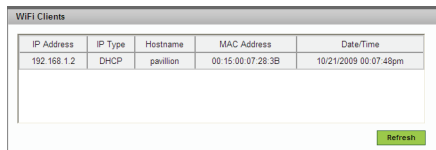
WiFi Network



The WiFi Network section of the WiFi Status page displays the following information:

- Profile currently in use.
- Network Name (SSID) for your MiFi.
- Number of clients currently connected.
- Maximum number of clients allowed to connect to your MiFi. You can select the maximum number of connections in the Clients Allowed box.
- Channel being used.
- Current wireless mode.
- Security type and encryption for the current profile.
- Network Key link (click to retrieve the network key).

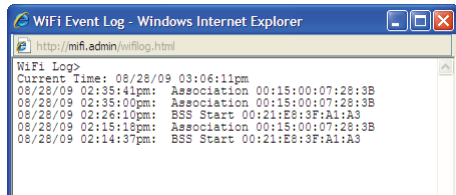
WiFi Clients



The WiFi Clients section of the WiFi Status page shows the clients that are currently connected to your MiFi. This is another way you can find the MAC address for a particular device.

WiFi Log

- ▶ Click the **WiFi Log** button to view a listing of WiFi events (most recent first).



WWAN Menu

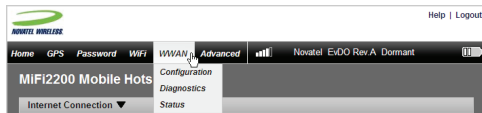
- ◆ WWAN Menu (page 20)

The WWAN menu allows you to update your Preferred Roaming List (PRL), displays information about your network connection, and provides tools for technical support.

WWAN Menu

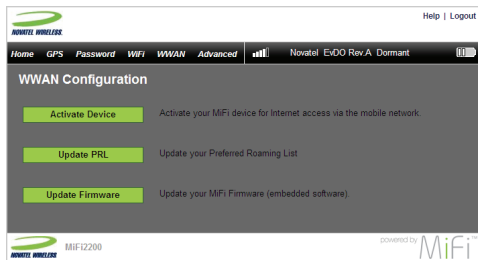
The WWAN Menu has three components:

- **Configuration** — to reactivate your MiFi, update your PRL, or update the firmware of your MiFi.
- **Diagnostics** — to view the status of your connection to the network, view information about your MiFi, and view an event log about your connections to the network.
- **Status** — to view information about your Internet connection, to view traffic counters, and to view an Internet connection log.



Configuration

Click **Configuration** in the WWAN menu to reactivate your MiFi, update your PRL, or update the firmware of your MiFi.



The WWAN Configuration Page

Select from the following options on the WWAN Configuration page:

- ▶ Click **Activate Device** to reactivate your MiFi for use on the network.
- ▶ Click **Update PRL** to update your provider's Preferred Roaming List.

Tip: You should update your PRL about every three months to make sure you have the latest enhancements from your provider

- ▶ Click **Update Firmware** to update your MiFi's internal software (firmware).

WARNING: If technical support instructs you to upgrade the firmware, be very careful not to turn off the device while the upgrade is in progress. It may take several minutes to contact the server and complete the update after the device power cycles. Do not turn the unit off for at least five minutes after the power cycles.

Diagnostics

Click **Diagnostics** in the WWAN menu to access status information about your Internet connection and MiFi.

Help | Logout

Home GPS Password WWAN Advanced Novatel EV-DO Rev.A Dormant

WWAN Diagnostics

WWAN Connection

Connection Status:	Dormant
Technology:	EV-DO Rev.A
Roaming:	No

Manual Device Setup

WWAN Modem

Manufacturer:	Novatel Wireless
Model:	MIF2200
Firmware Version:	142
ESN:	5BB7150E
MDN:	91[redacted]
MSID:	91[redacted]
NAI:	91[redacted].com
PRL Version:	60752

Reset Modem

WWAN Event Log

```
WWAN Log
Current Time: 10/21/09 00:47:12pm
10/21/09 00:10:45pm: 3G Connected
```

Refresh

powered by MiFi

The WWAN Diagnostic Page

The WWAN Diagnostic page is divided into three sections.

WWAN Connection

WWAN Connection	
Connection Status:	Dormant
Technology:	EV-DO Rev.A
Roaming:	No

Manual Device Setup

The WWAN Connection section displays the following information:

- Connection status:
 - Active — connected and transmitting data
 - Dormant — connected but not transmitting data
 - Disconnected — not connected to the network
- Type of network (technology) you are connected to.
- Roaming status.

Important: Do not click Manual Device Setup unless you have received an MSL number from technical support.

WWAN Modem



The WWAN Modem section displays the following information:

- Manufacturer — manufacturer of your MiFi.
- Model — model name or number of your MiFi.
- Firmware version — current internal software (firmware) version.
- ESN — unique number the network uses to identify your MiFi.
- MDN — public ID for your specific wireless service.
- MSID — internal ID your network uses to identify your account.
- NAI — address of your MiFi on the network.

- PRL Version — use to verify that your PRL (preferred roaming list) is the most current.

Important: Do not click Reset Modem unless you have received an MSL number from technical support.

Reset Modem clears your network account information and will require reactivation of your MiFi.

WWAN Event Log

The WWAN Event Log section lists network connection events and times when they occurred. Technical support uses the log as a troubleshooting tool.



WWAN Status

The WWAN Status page displays information about your Internet connection.

The screenshot shows the WWAN Status page with the following sections:

- Internet Connection:** A table showing connection status (Dormant), roaming (No), received/transmitted data (1.63 MB / 2.43 MB), and IP address/gateway/DNS (72.62.64.112 / 255.255.255.255 / 68.28.58.92). A green **Disconnect** button is at the bottom.
- Traffic Counters:** A table with columns for Start Date, Lifetime, and Resettable. It shows data for connection time, data received, data transmitted, and total data. A green **Reset Counter** button is at the bottom.
- Internet Connection Log:** A link to view the connection log.

The WWAN Status Page

The WWAN Status page is divided into three sections.

Internet Connection

The close-up shows the Internet Connection section with the following data:

Connection Status:	Dormant	IP Address:	72.62.64.112
Roaming:	No	Mask:	255.255.255.255
Received:	1.63 MB	Gateway:	72.62.64.112
Transmitted:	2.43 MB	DNS:	68.28.58.92
Connected Time:	00:37:34		

A green **Disconnect** button is located below the data.

The Internet Connection section displays the following information:

- Status of the connection
 - Whether or not your MiFi is roaming
 - Number of bytes received and transmitted
 - Duration of the current connection
 - Your MiFi's IP address and subnet mask
 - Gateway IP address
 - DNS server IP address
- ▶ Click **Disconnect** to leave the network or **Connect** to rejoin the network.

Traffic Counters

Traffic Counters				
This data is informational only, and is not used for billing purposes.				
		Lifetime		Resettable
Start Date:	10/07/2009	10:24:23am	10/07/2009	10:24:23am
Total connection time:		00:58:37		00:57:37
Data Received:		4.78 MB		4.76 MB
Data Transmitted:		3.82 MB		3.82 MB
Total Data:		8.60 MB		8.58 MB
Reset Counter				

The Traffic Counters section displays the following:

- Date and time connection was made
- Total duration of connection
- Total data bytes received and transmitted, plus the total for both directions

This section displays both a cumulative (lifetime) count and a count for the current session (which can be reset).

- ▶ Click **Reset Counter** to set all counts back to zero.

Internet Connection Log

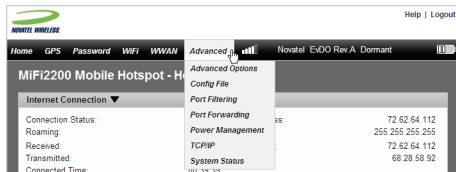
- ▶ Click **Internet Connection Log** to display a log of outgoing traffic showing these details:
 - Date/Time
 - Client IP Address (IP address of sender)
 - Destination (IP address of recipient)
 - Port (computer port through which data was sent)
 - Type (connection protocol used)

Date/Time	Client IP Address	Destination	Port	Type
04/16/09 03:35:13pm	192.168.1.2	193.138.220.187	80	TCP
04/16/09 03:35:12pm	192.168.1.2	68.28.58.92	53	UDP
04/16/09 03:35:12pm	192.168.1.2	193.138.220.187	80	TCP
04/16/09 03:35:12pm	192.168.1.2	91.103.67.144	7022	UDP
04/16/09 03:34:41pm	192.168.1.2	193.138.220.187	80	TCP
04/16/09 03:34:39pm	192.168.1.2	68.28.58.92	53	UDP
04/16/09 03:34:12pm	192.168.1.2	193.138.220.187	80	TCP
04/16/09 03:34:12pm	192.168.1.2	68.28.58.92	53	UDP
04/16/09 03:34:11pm	192.168.1.2	193.138.220.187	80	TCP
04/16/09 03:34:10pm	192.168.1.2	68.28.58.92	53	UDP

Advanced Menu

- ◆ Advanced Menu (page 26)

The Advanced menu allows you to back up and restore your configuration, specify router settings such as DHCP, port filtering, and port forwarding, and to customize power management settings.



Advanced Menu

The Advanced menu has seven components:

- **Advanced Options** — to enable SSID broadcast, auto-connect to the network, DHCP, VPN passthrough, or the System log.
- **Config File** — to back up or restore a file containing your MiFi settings.
- **Port Filtering** — to specify which applications can access the Internet and through which port(s).
- **Port Forwarding** — to specify which applications can access your computer through the Internet and through which port(s). You might use this if you have an FTP server on your system or play certain online games.
- **Power Management** — to customize your MiFi's power-saving settings.

- **TCP/IP** — to view or change the IP address and subnet mask for your MiFi, and to view the MAC address and DHCP address range for your MiFi.
- **System Status** — to view information about your MiFi and to view the system log. You can also restart your MiFi or restore it to its factory default settings.

Advanced Settings

Click **Advanced Options** in the Advanced menu to configure your MiFi or to enable the system log.

Help | Logout

Home GPS Password WIFI WWAN Advanced Novatel EV-DO Rev.A Dormant

Advanced Settings

Access Point

SSID broadcast enable

3G Modem

Auto-connect enable

Roaming:

Allow International Access

Router

DHCP Server enable

VPN Passthrough enable

System

Auto-run Setup Wizard

System log enable (see Diagnostics screen)

Language:

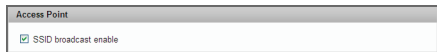
Date/Time Format:

Novatel MiFi2200 powered by MiFi™

The Advanced Settings Page

The Advanced Settings page is divided into four sections.

Access Point

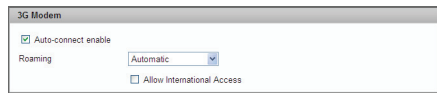


Enabling SSID broadcasting allows other nearby computers to see your MiFi's network name (SSID). This is what you see when you select "View Available Wireless Networks."

Disabling SSID broadcasting provides additional security but you will have to re-enable it if you lose your automatic connection.

- ▶ Select the SSID broadcast enable check box to enable SSID broadcasting, or clear the check box to disable SSID broadcasting, and then click **Apply**.

3G Modem



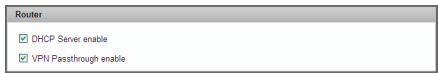
Enabling auto-connect allows your MiFi to connect to your network automatically when it is turned on.

- ▶ Select the Auto-connect enable check box to enable auto-connection, or clear the check box to disable auto-connection, and then click **Apply**.

Enabling roaming allows your MiFi to continue working even when off your service provider's network. Roaming charges may apply. Three options are available:

- Automatic — allows roaming on other providers' networks.
 - Home network only — prevents roaming.
 - Allow International Access — allows roaming to occur outside the United States.
- ▶ Select the option you desire, then click **Apply**.

Router



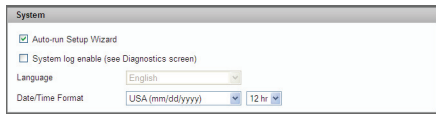
Enabling the DHCP server allows your MiFi to automatically assign a local IP address to a new device joining your network (such as a wireless printer or an additional laptop). When the DHCP server is disabled, you will have to assign static IP addresses to all devices on your network.

- ▶ Select the DHCP Server enable check box to enable the DHCP server, or clear the check box to disable the DHCP server, and then click **Apply**.

VPN passthrough is required if you are going to connect to a VPN (such as a corporate system).

- ▶ Select the VPN Passthrough enable check box to enable VPN passthrough, or clear the check box to disable VPN passthrough, and then click **Apply**.

System



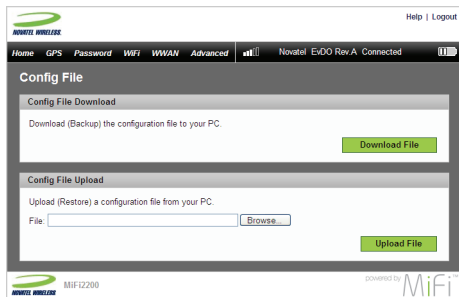
The System section allows you to select your preferred language, date format, and time format, and to turn on the system log.

Note: You can view the system log from the System Status page (see page 37).

1. In the Language list, click the language you wish to use. (Currently English is the only option.)
2. In the Date/Time list, click the date format (U.S. or European) and the time system (12-hr or 24-hr) that you want to use.
3. Optionally, you can select the System log enable check box if you want to create a system log.
4. Confirm your selections and click **Apply**.

Config File

Click **Config File** in the Advanced menu to back up your configuration file (MiFi settings) to your computer, or to restore a saved configuration file from your computer.



The Config File page is divided into two sections and allows you to back up and restore your MiFi configuration settings.

Config File Download

Back up your MiFi Settings file to your computer

1. Click **Download File**.
2. Click **Save** to place the file “config.xml.savefile” on your computer. You may rename the file. (If the file opens in your browser instead of downloading, use your browser’s File menu to save the file to your computer.)

Config File Upload

Restore your MiFi Settings file to MiFi

1. Click **Browse** and navigate to the backup file on your computer.
2. Click the file to highlight it and then click **Open**.
3. Click **Upload File**.
4. Click **OK** when the “Upload completed” message appears.

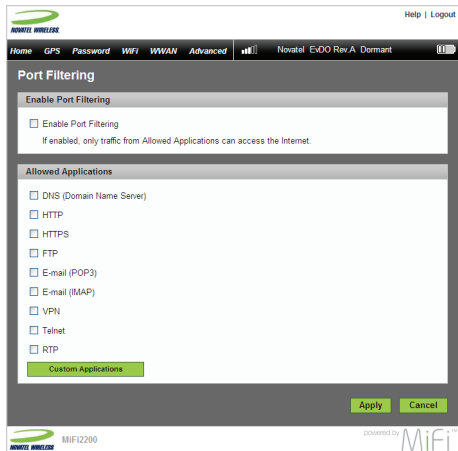
Important: If your WiFi settings have changed since you created the backup file, you may lose your connection after restoring from the backup file. You will need to reconnect using your new (changed) settings.

Port Filtering

Click **Port Filtering** in the Advanced menu to enhance the security of your system by controlling which applications are allowed to access the Internet.

Port filtering allows you to conserve bandwidth by preventing non-business applications from accessing the Internet, and to prevent applications such as online games from accessing the Internet.

The Port Filtering Page



The Port Filtering page allows you to enable port filtering, select common applications to allow access to the Internet, and set up custom applications for access to the Internet.

Port Filtering for Standard Applications

1. From the Port Filtering page, select the Enable Port Filtering check box.
2. Select the check boxes for the applications for which you want to allow access to the Internet.
3. Click **Apply**.

Note: MiFi uses standard ports for these applications. If you have applications that do not use the standard ports or that are not listed under Allowed Applications, use Custom Applications.

Port Filtering for Custom Applications

To set up port filtering for a custom application, you will need to know the port numbers (up to five ports or port ranges) and the protocol (TCP, UDP, or both) the application uses for its outgoing traffic.

1. From the Port Filtering page, select the **Enable Port Filtering** check box.
2. Click **Custom Applications**.
3. Enter a name for the application and click the **Ports** link.

The screenshot shows the 'Custom Port Filtering' window with a 'Custom Applications' section. It contains a table with 6 rows for defining applications. The first row is pre-filled with 'HTTP 8080' and has a checked checkbox. The other rows have empty checkboxes and input fields. To the right of the table is a 'Ports for Application 1' section with a table for defining port ranges and protocols. The first row in this section shows '8080 - 8080' and 'TCP/UDP'. There is a '<< Hide' link to the right of this section. At the bottom right of the window are 'Apply' and 'Cancel' buttons.

Custom Applications	
<input checked="" type="checkbox"/>	HTTP 8080
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Ports for Application 1		
8080	-	8080
	-	
	-	
	-	
	-	
	-	

<< Hide

Apply Cancel

4. Enter the port or port range. You can enter up to five ports or port ranges.
 - Single port — enter the port number in both fields.
 - Port range — enter the beginning port number in the left field and the ending port number in the right field.
5. For each port number or range, select the protocol (TCP, UDP, or both) used by that port or port range.
6. Click **Hide**.
7. Click **Apply**.

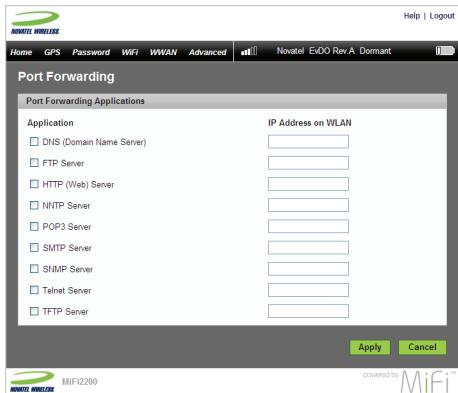
Port Forwarding

Port forwarding allows designated users or applications to reach specified servers, such as FTP and DNS servers, on your computer. Also, some online games require incoming access to work properly.

Important: *You will need to set up static IP addresses on your WLAN for each device that has an application to which you want to forward.*

The Port Forwarding Page

The Port Forwarding page allows you to enter the local static IP address for each application that you want to receive traffic from the Internet.



The screenshot shows the 'Port Forwarding' configuration page on a Novatel Mifi2200 device. The page has a dark header with the Novatel Wireless logo and navigation links: Home, GPS, Password, WiFi, WWAN, Advanced, and signal strength indicators. Below the header, the title 'Port Forwarding' is displayed. The main content area is titled 'Port Forwarding Applications' and contains a table with two columns: 'Application' and 'IP Address on WLAN'. The table lists several applications, each with a checkbox and an input field for the IP address. At the bottom of the page, there are 'Apply' and 'Cancel' buttons. The footer includes the Novatel Wireless logo, the model number 'MIFI2200', and the text 'powered by MiFi™'.

Application	IP Address on WLAN
<input type="checkbox"/> DNS (Domain Name Server)	<input type="text"/>
<input type="checkbox"/> FTP Server	<input type="text"/>
<input type="checkbox"/> HTTP (Web) Server	<input type="text"/>
<input type="checkbox"/> NNTP Server	<input type="text"/>
<input type="checkbox"/> POP3 Server	<input type="text"/>
<input type="checkbox"/> SMTP Server	<input type="text"/>
<input type="checkbox"/> S/MMP Server	<input type="text"/>
<input type="checkbox"/> Telnet Server	<input type="text"/>
<input type="checkbox"/> TFTP Server	<input type="text"/>

1. From the Port Forwarding page, select the check box for the application you want to enable.
2. Type the local static IP address of the device hosting the application into the IP Address on WLAN box.
3. Click **Apply** when you have finished adding applications.

Important: Port forwarding creates a security risk and should be disabled when not needed.

Power Management

Your MiFi can switch to a low-power mode when it is idle. The Power Management page allows you to set the maximum time before your MiFi switches to low-power mode. You can set separate times for AC power and battery power. When your MiFi is on battery power, you can set the length of time before it shuts down. You can also turn off your MiFi's LEDs to save additional power.

The Power Management Page

Use the Power Management page to set how long your MiFi is idle before it switches to low-power mode.

Help | Logout

Home GPS Password WIFI WWAN Advanced Novatel EVO Rev.A Connected

Power Management

LED Control

The LEDs on your MiFi can be switched off, to make it less obvious that it is in use.

Disable LEDs

AC Power

When using AC power, your MiFi can switch to Low Power Mode when idle.

Switch to Low Power Mode

Battery Power

When using Battery Power, your MiFi can switch to Low Power Mode, or Shutdown, when idle.

Switch to Low Power Mode

Shutdown

MIFIZ200 powered by

1. From the Power Management page, select the Disable LEDs check box to disable or clear the check box to enable your MiFi's LEDs.

Note: Turns off all LEDs except for critical errors and low battery.

2. In the AC Power section, click the time that elapses before your MiFi switches to low-power mode when not in use (2 to 60 minutes) or click **Never** to disable this feature when on AC power.
3. In the Battery Power section, click the time that elapses before your MiFi switches to low-power mode when not in use (2 to 60 minutes), and the time before your MiFi will shut down (2 to 60 minutes); or click **Never** to disable either or both of these features when your MiFi is on battery power.
4. Click **Apply**.

TCP/IP

The TCP/IP page allows you to view the local (WLAN) IP address and the MAC address for your MiFi.

The screenshot shows the TCP/IP configuration interface for a Novatel Wireless MiFi device. At the top, there is a navigation bar with links for Home, GPS, Password, WiFi, WWAN, and Advanced. The current page is titled 'TCP/IP'. Below the title, there is a table with the following information:

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
MAC Address	00:21:EB:68:2F:FE
DHCP Address Range	192.168.1.2 - 192.168.1.10

At the bottom right of the configuration area, there are two buttons: 'Apply' and 'Cancel'. The footer of the page includes the Novatel Wireless logo, the model number 'MIFI2200', and the text 'powered by MiFi'.

The TCP/IP Page

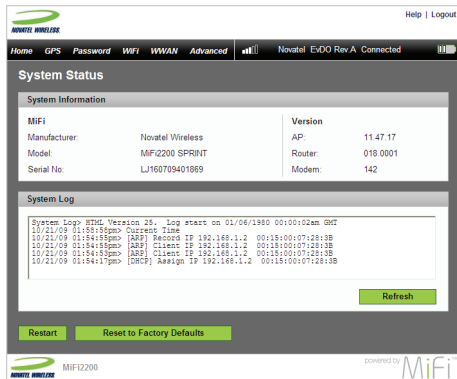
From the Advanced menu, click **TCP/IP** to display the following information about your MiFi:

- Local IP address
- Subnet mask
- MAC address of your MiFi
- DHCP address range used by your MiFi's DHCP server

The IP address and subnet mask can be changed by entering new numbers and clicking **Apply**. If you have devices on your network with local static IP addresses, those addresses should not be within the DHCP range.

System Status

The System Status page allows you to view real-time system information and the system log, and to restart your MiFi or restore it to factory defaults.



The screenshot shows the 'System Status' page of a Novatel MiFi device. At the top, there is a navigation bar with 'Home', 'GPS', 'Password', 'WiFi', 'WWAN', and 'Advanced' (selected). The status bar shows 'Novatel EvDO Rev.A Connected'. The main content is divided into two sections: 'System Information' and 'System Log'. The 'System Information' section displays details for the MiFi, including Manufacturer (Novatel Wireless), Model (MIF2200 SPRINT), Serial No. (LJ160709401869), Version (11.47.17), AP (018.0001), Router (142), and Modem (142). The 'System Log' section shows a log of events, including 'Current Time', 'ARP Record IP', and 'DHCP assign IP'. At the bottom, there are buttons for 'Restart' and 'Reset to Factory Defaults', and a 'Refresh' button. The Novatel logo and 'powered by MiFi' are visible at the bottom of the page.

System Information	
MiFi	
Manufacturer:	Novatel Wireless
Model:	MIF2200 SPRINT
Serial No.:	LJ160709401869
Version:	11.47.17
AP:	018.0001
Router:	142
Modem:	142

```
System Log> HTML Version 25. Log start on 01/06/1980 00:00:02am GMT
10/21/09 01:50:55pm Current Time
10/21/09 01:54:55pm [ARP] Record IP 192.168.1.2 00:15:00:07:28:3B
10/21/09 01:54:55pm [ARP] Client IP 192.168.1.2 00:15:00:07:28:3B
10/21/09 01:54:55pm [ARP] Client IP 192.168.1.2 00:15:00:07:28:3B
10/21/09 01:54:55pm [ARP] Client IP 192.168.1.2 00:15:00:07:28:3B
10/21/09 01:54:55pm [DHCP] assign IP 192.168.1.2 00:15:00:07:28:3B
```

The System Status Page

From the Advanced menu, click **System Status** to display the following information about your MiFi:

- Manufacturer
- Model
- Serial number
- AP (access point) version
- Router version
- Modem version
- System log (if enabled)

Restarting or Resetting Your MiFi

In addition to viewing status information, you can restart your MiFi or reset it to factory defaults from the System Status page.

- ▶ Click **Restart** to re-initialize your MiFi (same as turning it off and on again).
– or –
- ▶ Click **Reset to Factory Defaults** to reset your MiFi WiFi settings to the original state they were in at the time of purchase.

Important: *After executing either step you may lose your connection and have to reconnect, and after clicking Reset to Factory Defaults you will need to rerun the startup wizard and reset your security.*

Reference

Technical Specifications

- ◆ LED Overview (page 40)
- ◆ Environmental Specifications (page 41)
- ◆ Mechanical Specifications (page 42)
- ◆ CDMA Technology (page 42)

This section describes the LED indicators and various specifications of your MiFi.

LED Overview

Your MiFi has a Service Status LED and a Power Button LED, which provide status information about your MiFi.

Service Status LED	Indicates
LED not lit	No power to MiFi
LED Green — solid	MiFi powered on but not transmitting or receiving
LED Green — slow blinking	MiFi powered on but no service available
LED Green — intermittent blinking	MiFi transmitting and receiving data; blinking rate proportional to data speed

Power Button LED	Indicates
LED not lit	No power to MiFi
LED Blue — solid	MiFi powered on and roaming
LED Green — solid	MiFi powered on and fully charged
LED Green — glowing	MiFi in hibernate mode
LED Red — blinking	MiFi battery critically low
LED Amber — solid	MiFi battery charging
LED Amber — blinking	MiFi error — see Troubleshooting

Environmental Specifications

Operating temperature	14°F to 113°F
Storage temperature	-4°F to 77°F
Vibration stability	5 Hz to 500 Hz, 0.1 octave/second
Drop	3.28 foot drop, no damage — fully operational

Mechanical Specifications

Dimensions (W x D x H)	59mm x 9mm x 89mm
Weight	2.05 oz / 58 g
Battery pack	1150 mAh
LED	Two: Power and 3G indicators

CDMA Technology

CDMA specification	CDMA Rev A, Rev 0, 1XRTT
Band Designation	800/1900 MHz
Transmit Band	824.7–848.31MHz/ 1851.25–1908.75MHz
Receive Band	869.7–893.31MHz/ 1931.25–1988.75MHz

Regulatory Information

- ◆ Regulatory Notices (page 43)
- ◆ Trademarks (page 45)
- ◆ Limitation of Liability (page 46)
- ◆ Additional Information and Updates (page 46)

This section contains important regulatory notices about your MiFi 2200, trademark notices, and other information.

Regulatory Notices

This device is designed to be activated on your service provider's network and has a software programming lock that, in part, protects many of the device's features and functions against tampering and unauthorized reprogramming.

Service plans and other services/options must be purchased separately. This device operates within the CDMA frequency band of 800 MHz/1.9 GHz. This device will not operate on any iDEN network. Coverage is not available everywhere.

This product meets current FCC Radio Frequency Emission Exposure Guidelines.

FCC Equipment Authorization ID number:
PKRNVWMIFI2200.

Federal Communications Commission Notice (FCC – United States)

Electronic devices, including computers and wireless modems, generate RF energy incidental to their intended function and are therefore subject to FCC rules and regulations.



This equipment has been tested to, and found to be within the acceptable 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 when the equipment is operated in a residential environment. This equipment generates radio frequency energy and is designed for use in accordance with the manufacturer's user manual. However, there is no guarantee that interference will not occur in any particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are 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 the 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/television technician for help.

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

WARNING: DO NOT ATTEMPT TO SERVICE THE WIRELESS COMMUNICATION DEVICE YOURSELF. SUCH ACTION MAY VOID THE WARRANTY. THE MiFi 2200 IS FACTORY TUNED. NO CUSTOMER CALIBRATION OR TUNING IS REQUIRED. CONTACT NOVATEL WIRELESS TECHNICAL SUPPORT FOR INFORMATION ABOUT SERVICING YOUR WIRELESS COMMUNICATION DEVICE.

FCC CAUTION: Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

MODIFICATIONS: The FCC requires that you be notified that any changes or modifications made to this device that are not expressly approved by Novatel Wireless may void your authority to operate the equipment.

RF Exposure Content

FCC Equipment Authorization ID: **PKRNVWmiFi2200**

This device is only authorized for use in Mobile applications. At least 8 inches (20 cm) of separation between the antenna and the user's body must be maintained at all times.

The FCC has granted an Equipment Authorization for this wireless modem with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

Trademarks

Novatel Wireless, MiFi, and the Novatel Wireless logo are trademarks of Novatel Wireless. Nothing contained in this user manual should be construed as granting by implication, estoppeo, or otherwise, a license or right of use of Novatel Wireless or any other Trademark displayed in this user manual without the written permission of Novatel Wireless or its respective owners.

MobiLink is a service mark of Novatel Wireless.

Microsoft and Windows are either registered trademarks of Microsoft Corporation in the United States and/or other countries..

Apple and Mac are registered trademarks of Apple, Inc.

Mac OS is a trademark of Apple Inc., registered in the United States and other countries.

All other marks are the property of their respective owners.

Limitation of Liability

The information in this manual is subject to change without notice and does not represent a commitment on the part of Novatel Wireless. NOVATEL WIRELESS AND ITS AFFILIATES SPECIFICALLY DISCLAIM LIABILITY FOR ANY AND ALL DIRECT, INDIRECT, SPECIAL, GENERAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE OR ANTICIPATED PROFITS OR REVENUE ARISING OUT OF THE USE OR INABILITY TO USE ANY NOVATEL WIRELESS PRODUCT, EVEN IF NOVATEL WIRELESS AND/OR ITS AFFILIATES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR THEY ARE FORESEEABLE OR FOR CLAIMS BY ANY THIRD PARTY.

Notwithstanding the foregoing, in no event shall Novatel Wireless and/or its affiliates aggregate liability arising under or in connection with the Novatel Wireless product, regardless of the number of events, occurrences, or claims giving rise to liability, be in excess of the price paid by the purchaser for the Novatel Wireless product.

Additional Information and Updates

For up-to-date product descriptions, documentation, application notes, firmware upgrades, troubleshooting tips, and press releases, visit www.novatelwireless.com.

Safety Information

- ◆ Important Notice (page 47)
- ◆ Safety and Hazards (page 48)

Important Notice

Because of the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors), or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the MiFi 2200 are used in a normal manner with a well constructed network, they should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Novatel Wireless, Inc. accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the MiFi 2200 or for failure of the MiFi 2200 to transmit or receive such data.

Proper Battery Use and Disposal

WARNING: In the event of a battery leak:

- Do not allow the liquid to come in contact with the skin or the eyes. If contact has been made, wash the affected area with large amounts of water and see medical advice.
- See medical advice immediately if a battery has been swallowed.

Please review the following guidelines for safe and responsible battery use:

- Do not disassemble or open, crush, bend or deform, puncture, or shred.
- Do not modify or remanufacture, attempt to insert foreign object into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
- Only use the battery for the system for which it was specified.
- Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.

- Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.

Safety and Hazards

Do not operate the MiFi 2200 in areas where blasting is in progress, where explosive atmospheres may be present, near medical equipment, life support equipment, or any equipment which may be susceptible to any form of radio interference. In such areas, the MiFi 2200 **MUST BE POWERED OFF**. It can transmit signals that could interfere with this equipment.

Do not operate the MiFi 2200 in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the MiFi 2200 **MUST BE POWERED OFF**. When operating, it can transmit signals that could interfere with various onboard systems.

The driver or operator of any vehicle should not operate the MiFi 2200 while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some jurisdictions, operating such communications devices while in control of a vehicle is an offense.

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Glossary

- 802.11 (b, g, n) — A set of WLAN communication standards in the 2.4 and 5 GHz frequency bands.
- Access Point — A device that allows wireless communication devices to connect to a wireless network using a standard such as WiFi.
- DHCP — Dynamic Host Configuration Protocol. A network application protocol used to obtain configuration information for an Internet Protocol network.
- DHCP Server — A server that uses DHCP to obtain configuration information for operation in an Internet Protocol network.
- DNS — Domain Name System. A system for converting host names and domain names into IP addresses on the Internet or on local networks that use the TCP/IP protocol.
- ESN — Electronic Serial Number. A unique 32-bit number embedded in a wireless device that identifies the device.
- Firmware — A program that internally controls an electronic device.
- FTP — File Transfer Protocol. A network protocol for exchanging files over a TCP network.
- Gateway — A network point that acts as an entrance to another network that uses a different protocol.
- Host Name — The unique name by which a network-attached device is known on a network.
- Hotspot — A WiFi access point or area for connecting to the Internet.
- HTTP — Hypertext Transfer Protocol. An application-level protocol for accessing the World Wide Web over the Internet.
- IMAP — Internet Message Access Protocol. An Internet standard protocol for email retrieval.
- IP Type — The type of service provided over a network.
- IP address — Internet Protocol address. The address of a device attached to an IP network (TCP/IP network).
- LAN — Local Area Network. A type of network that lets a group of computers, all in close proximity (such as inside an office building), communicate with one another.
- MAC Address — A number that uniquely identifies a given network adapter on a LAN. MAC addresses are 12-digit hexadecimal numbers.

- MSID — Mobile Station ID. A number provisioned by a service provider to a mobile phone that identifies that phone to the network.
- MSL — Master Subsidy Lock. A numeric code for accessing certain phone settings.
- NAI — Network Access Identifier. A standard way of identifying users who request access to a network.
- Network Mask — A number that allows IP networks to be subdivided for security and performance.
- NNTP — Network News Transfer Protocol. An Internet application protocol for reading and posting Usenet (newsgroup) articles.
- POP — Post Office Protocol. An Internet protocol for retrieving email from a remote server over a TCP/IP connection.
- Port — A virtual data connection used by programs to exchange data.
- Port Forwarding — A process that allows remote devices to connect to a specific computer within a private LAN.
- Port Number — A number assigned to a user session and server application in an IP network.
- Protocol — A standard that enables connection, communication, and data transfer between computing endpoints.
- PPTP — Point-to-point Tunneling Protocol. A method for implementing virtual private networks that does not provide confidentiality or encryption.
- PRL — Preferred Roaming List. A list that your wireless phone or device uses to determine which networks to connect with when you are roaming.
- RFB — Remote Frame Buffer. A protocol for remote access to graphical user interfaces.
- Router — A device that connects two networks.
- RTP — Real-time Transport Protocol. A packet format for streaming multimedia over the Internet.
- SMTP — Simple Mail Transfer Protocol. An Internet standard for email transmission across IP networks.
- SSID — Service Set Identifier. The name assigned to a WiFi network.
- TCP — Transmission Control Protocol. A core protocol for transmitting and receiving information over the Internet.
- TCP/IP — Transmission Control Protocol/Internet Protocol. A communications protocol developed under contract from the U.S. Department of Defense to internetwork dissimilar systems.
- Telnet — Telecommunication Network. A network protocol used on the Internet or on local area networks.

- TFTP — Trivial File Transfer Protocol. A file transfer protocol with a subset of FTP functionality.
- UDP — User Datagram Protocol. A simple transport protocol used to transfer information on the Internet.
- VNC — Virtual Network Computing. A graphical desktop sharing system that uses the RFB protocol to remotely control another computer.
- VPN — Virtual Private Network. A secure private network that runs over the public Internet.
- VPN Passthrough — A feature that allows a client to establish a tunnel only with a specific VPN server.
- WAN — Wide Area Network. A public network that extends beyond architectural, geographical, or political boundaries (unlike a LAN, which is usually a private network located within a room, building, or other limited area).
- WEP — Wired Equivalent Privacy. An IEEE standard security protocol for 802.11 networks. Superseded by WPA and WPA2.
- WiFi — Wireless Fidelity. Any system that uses the 802.11 standard developed and released in 1997 by the IEEE (Institute of Electrical and Electronics Engineers).
- WiFi Client — A wireless device that connects to the Internet via WiFi.
- WLAN — Wireless Local Area Network. A typically low-power network that transmits a wireless signal over a span of a few hundred feet and usually only to stationary devices.
- WPA/WPA2 — WiFi Protected Access. A security protocol for wireless 802.11 networks from the Wi-Fi Alliance.
- WWAN — Wireless Wide Area Network. Wireless connectivity to the Internet achieved using cellular technology. This service is provided through cellular providers. WWAN connectivity allows a user to surf the Internet, check email, or connect to a virtual private network (VPN) from anywhere within the coverage area of the cellular service provider.

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