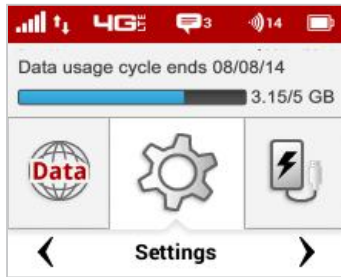


- 4 Navigate to the Back option to return to the Settings options, or press/hold the select button to return to the Home screen.



Settings Option



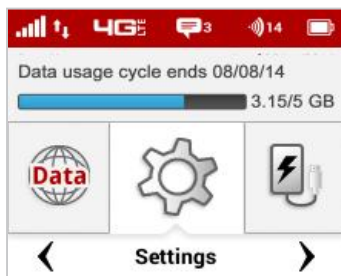
Select Audio Alerts



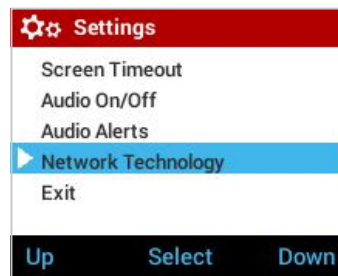
Set Audio Alerts

Network Technology

- 1 On the Home screen, navigate to the Settings icon and press the select button to open the Settings Select screen and display Settings options.
- 2 Navigate to the Network Technology option and press the select button to display the Network Technology screen with the available technology options.
- 3 Navigate to the desired technology option and press the select button.
- 4 Navigate to the Back option and press the select button to return to the Settings options, or press/hold the select button to return to the Home screen.



Settings Option



Select Network Technology

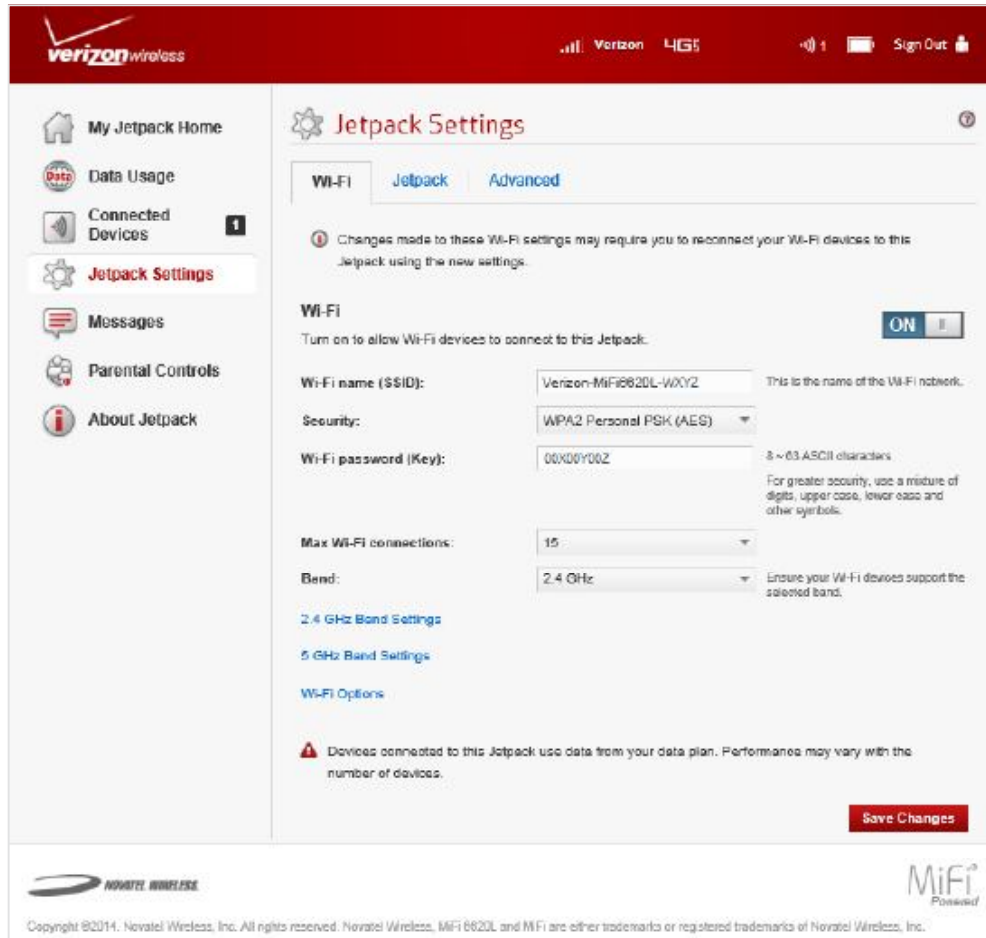


Set Network Technology

On the MiFi 7730L Admin Website

The MiFi 7730L Settings page allows you to make administration password and preference changes; obtain software update information; backup and restore files to your MiFi 7730L; and set GPS preferences. The MiFi 7730L Settings page contains the following sections:

- **Wi-Fi** (See [Wi-Fi](#) on page 59.)
- **MiFi 7730L** (See [MiFi 7730L](#) on page 61.)
- **Advanced** (See [Advanced](#) on page 70.)



MiFi 7730L Wi-Fi Settings

Wi-Fi

The Wi-Fi section allows you to enable Wi-Fi devices to connect to the MiFi 7730L Wi-Fi network, to change the Basic Wi-Fi Settings including Wi-Fi Name/Password, to select 2.4 GHz and 5 GHz Band Settings, and to turn ON/OFF Wi-Fi Options.

verizon wireless

Verizon 4G

Sign Out

My Jetpack Home

Data Usage

Connected Devices

Jetpack Settings

Messages

Parental Controls

About Jetpack

Jetpack Settings

Wi-Fi Jetpack Advanced

Changes made to these Wi-Fi settings may require you to reconnect your Wi-Fi devices to this Jetpack using the new settings.

Wi-Fi ON

Turn on to allow Wi-Fi devices to connect to this Jetpack.

Wi-Fi name (SSID): Verizon-MiFi6620L_WXYZ This is the name of the Wi-Fi network.

Security: WPA2 Personal PSK (AES)

Wi-Fi password (Key): 0000W00Z 8–32 ASCII characters
For greater security, use a mixture of digits, upper case, lower case and other symbols.

Max Wi-Fi connections: 15

Band: 2.4 GHz Choose your Wi-Fi device's support the selected band.

2.4 GHz Band Settings

802.11 Mode: 802.11g + 802.11n

Channel: Automatic

5 GHz Band Settings

Bandwidth: 20/40 MHz

802.11 Mode: 802.11n + 802.11n Note: When using 802.11n, legacy security methods are not available.

Channel: Automatic

Wi-Fi Options

WPS: WPS is accessible through the display. Use WPS with compatible devices to easily connect to the Wi-Fi network.

Display the Wi-Fi name on Jetpack screen: Show the Wi-Fi name on the Jetpack's LCD display.

Display the Wi-Fi password on Jetpack screen: Show the Wi-Fi password on the Jetpack's LCD display.

Broadcast Wi-Fi name (SSID): Broadcast must be turned on to use WPS.

Wi-Fi Multimedia (WMM): WMM provides higher priority for multimedia use & mandatory if using 802.11n.

Wi-Fi privacy separation: If turned on, connected devices cannot communicate with each other.

Save Changes

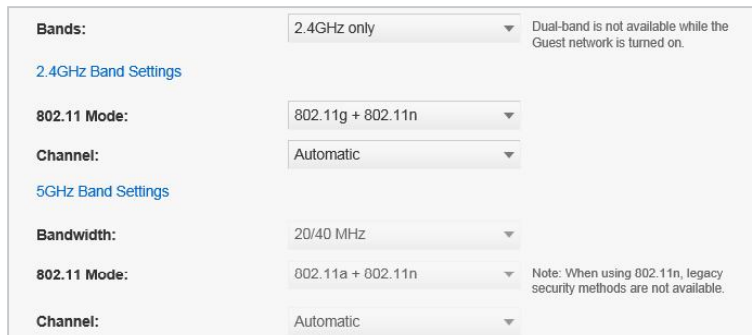
Copyright © 2014. Verizon Wireless, Inc. All rights reserved. Verizon Wireless, MiFi 7730L and MiFi are either trademarks or registered trademarks of Verizon Wireless, Inc.

MiFi
Powered

Change Wi-Fi Name and Password

To change the **Band Settings**:

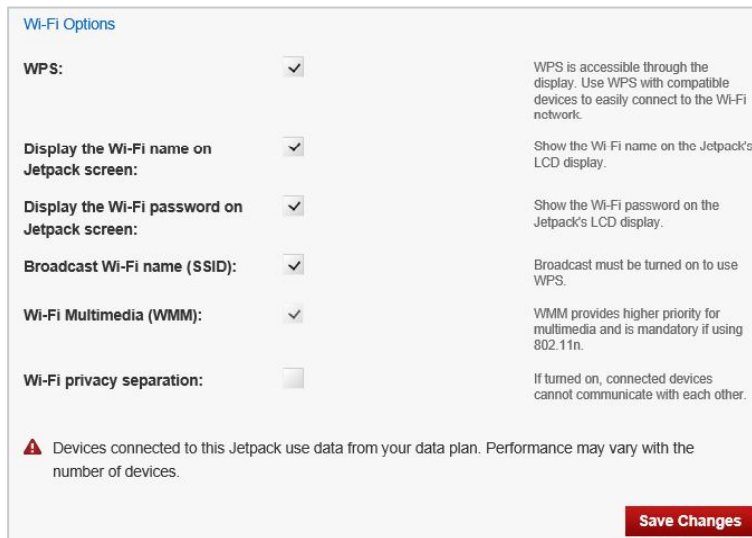
- 1 Select the desired Band Setting from the drop down menu. The choices are Dual band (2.4 GHz/5 GHz), 2.4 GHz only, and 5 GHz only.
- 2 Select the Bandwidth, 802.11 Mode, and Channel from the drop down menus



Change Band Settings

To turn ON/OFF **Wi-Fi Options**:

- 1 To turn on an option, click the option checkbox to display the check mark. To turn off an option, click the option checkbox to remove the check mark.
- 2 Click **Save Changes** to finalize and accept the new settings.



Turn ON/OFF Wi-Fi Options

MiFi 7730L

The MiFi 7730L section allows you to change the MiFi 7730L Admin Password, select device preferences, check current software version and check for updates, backup your MiFi 7730L settings, and set GPS preferences. The MiFi 7730L Settings MiFi 7730L section contains the following menu options:

- **MiFi 7730L Admin Password** (See [MiFi 7730L Admin Password](#) on page 62.)
- **Preferences** (See [Preferences](#) on page 64.)
- **Software Update** (See [Software Update](#) on page 65.)
- **Backup and Restore** (See [Backup and Restore](#) on page 66.)
- **GPS** (See [GPS](#) on page 68.)

The screenshot shows the Verizon Wireless Jetpack Settings interface. The top navigation bar includes the Verizon logo, signal strength, Verizon 4G LTE, and a 'Sign Out' button. The left sidebar contains menu items: My Jetpack Home, Data Usage, Connected Devices, Jetpack Settings (highlighted), Messages, Parental Controls, and About Jetpack. The main content area is titled 'Jetpack Settings' and has tabs for 'Wi-Fi', 'Jetpack', and 'Advanced'. Under the 'Jetpack' tab, there are sub-tabs: 'Jetpack Admin Password', 'Preferences', 'Software Update', 'Backup and Restore', and 'GPS'. The 'Jetpack Admin Password' section contains the following text: 'The Jetpack Admin Password is used to sign in to this web-based management system.' Below this is a toggle for 'Display the Jetpack Admin Password' which is currently turned 'ON'. The 'Change Jetpack Admin Password' section includes instructions: 'Enter and confirm the new Admin Password, and set or change the security question used for verification if you forget the Admin password.' It features four input fields: 'Current Jetpack Admin password:', 'New Admin password:', 'Confirm new Admin password:', and 'Select security question:' (with a dropdown menu showing 'What is your date of birth?...'). Below these is an 'Answer security question:' field. A red 'Save Changes' button is located at the bottom right of the form. The footer includes the Novatel Wireless logo and copyright information: 'Copyright ©2014, Novatel Wireless, Inc. All rights reserved. Novatel Wireless, MiFi 6020L, and MiFi are either trademarks or registered trademarks of Novatel Wireless, Inc.' and the 'MiFi Powered' logo.

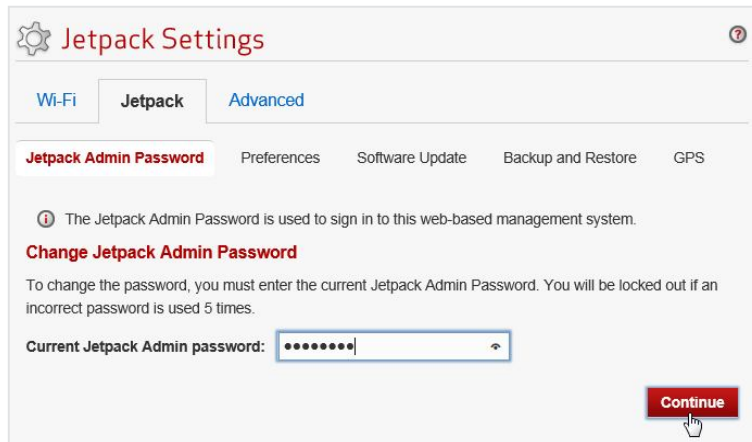
MiFi 7730L Settings - MiFi 7730L Admin Password

MiFi 7730L Admin Password

The MiFi 7730L Admin Password page allows you to display, hide and/or change the Admin Password.

Display or Hide the Admin Password

Slide the **ON/OFF** button to **ON** to display the MiFi 7730L Admin Password on the device or **OFF** to hide the MiFi 7730L Admin Password on the device.



Change MiFi 7730L Admin Password

Change the Admin Password

To change your Admin Password:

- 1 Type your current password in the **Current Admin Password** field. Select **Continue** to display the **Change MiFi 7730L Admin Password** screen.
- 2 Type your new password in the **New Admin Password** field.
- 3 Type your new password a second time in the **Confirm new Admin Password** field.
- 4 Select a security question from the dropdown menu options.
- 5 Type the answer to the selected security question in the **Answer security question** field.

- Click **Save Changes** to save any changes made to your password.

The screenshot shows the Verizon Jetpack Settings interface. The top navigation bar includes the Verizon logo, signal strength, Verizon 4G LTE, and a 'Sign Out' button. The left sidebar contains menu items: My Jetpack Home, Data Usage, Connected Devices, Jetpack Settings (highlighted), Messages, Parental Controls, and About Jetpack. The main content area is titled 'Jetpack Settings' and has tabs for 'Wi-Fi', 'Jetpack', and 'Advanced'. Under the 'Jetpack' tab, there are sub-sections: 'Jetpack Admin Password', 'Preferences', 'Software Update', 'Backup and Restore', and 'GPS'. The 'Jetpack Admin Password' section contains a note: 'The Jetpack Admin Password is used to sign in to this web-based management system.' Below this is a toggle for 'Display the Jetpack Admin Password' which is currently turned 'ON'. The 'Change Jetpack Admin Password' section includes instructions: 'Enter and confirm the new Admin Password, and set or change the security question used for verification if you forget the Admin password.' It features three password input fields: 'Current Jetpack Admin password', 'New Admin password', and 'Confirm new Admin password'. A note states 'Password must be at least 8 characters.' The 'Select security question' dropdown is open, showing options: 'What is your date of birth? (mm/dd/yyyy)', 'What is your mother's maiden name?', and 'What is the name of the street you grew up on?'. A red 'Save Changes' button is located at the bottom right of the form area. The footer contains the 'Mifi Powered' logo and copyright information: 'Copyright ©2014, Nextel Wireless, Inc. All rights reserved. Nextel Wireless, MFi 6620L and MFi are either trademarks or registered trademarks of Nextel Wireless, Inc.'

Save Changes to MiFi 7730L Admin Password

Preferences

The Preferences page contains the following options:

- **Allow Settings Changes** — Turn on to allow settings to be changed from the MiFi 7730L display.
- **Universal Charging** — Use this feature to charge your cellphone or similar device.
- **Device Preferences** — Allows you to set the behaviour of the MiFi 7730L.
- **Notifications** — Allows you to turn ON/OFF listed notifications.
- **User Preferences** — Allows you to customize the date, time, distance and number formats.

The screenshot shows the Verizon Wireless Jetpack Settings interface. The top navigation bar includes the Verizon logo, signal strength, carrier name (Verizon), and network type (4G LTE). A left sidebar contains menu items: My Jetpack Home, Data Usage, Connected Devices, Jetpack Settings (highlighted), Messages, Parental Controls, and About Jetpack. The main content area is titled 'Jetpack Settings' and has three tabs: Wi-Fi, Jetpack, and Advanced. Under the Jetpack tab, there are sub-sections: Jetpack Admin Password, Preferences (selected), Software Update, Backup and Restore, and GPS. The 'Allow Settings Changes' section has a toggle switch set to 'ON'. The 'Universal Charging' section includes an image of a phone being charged and a dropdown menu set to '25%'. Below this, the 'Current status' is 'Available'. The 'Device Preferences' section includes: 'Micro USB connection' set to 'Charge + tether + Wi-Fi', 'Prompt on USB connection' checked, 'Turn off display' set to 'After 30 seconds', 'Sleep' set to 'After 10 minutes', and 'Shutdown' set to 'After 2 hours'. The 'Notifications' and 'User Preferences' sections are visible at the bottom. A 'Save changes' button is located at the bottom right of the settings area. The footer contains the Sprint logo, copyright information for Verizon Wireless, and the MiFi logo.

MiFi 7730L Settings - MiFi 7730L Preferences

Software Update

The Software Update page contains the following sections:

- **Current software version**— Displays information for the current software version, date of last check for updates and the number of updates currently available.
- **Checked for update** — Displays the date of the last software update.
- **Update available** — Displays the software update history.

The screenshot shows the Verizon Jetpack Settings interface. The top navigation bar includes the Verizon Wireless logo, signal strength, Verizon 4G LTE, a battery icon, and a 'Sign Out' button. The left sidebar contains menu items: My Jetpack Home, Data Usage, Connected Devices (with a notification badge), Jetpack Settings (selected), Messages, Parental Controls, and About Jetpack. The main content area is titled 'Jetpack Settings' and has three tabs: Wi-Fi, Jetpack, and Advanced. Under the Jetpack tab, there are sub-tabs: Jetpack Admin Password, Preferences, Software Update (selected), Backup and Restore, and GPS. The 'Software Update' section displays the following information:

Current Software	
Current software version:	1.3 (L1.152.6.1 M9x25BEN-2.24.2 1 [2014-07-29 12:17:11])
Checked for update:	Never
Update available:	No
Update History	
Never updated	

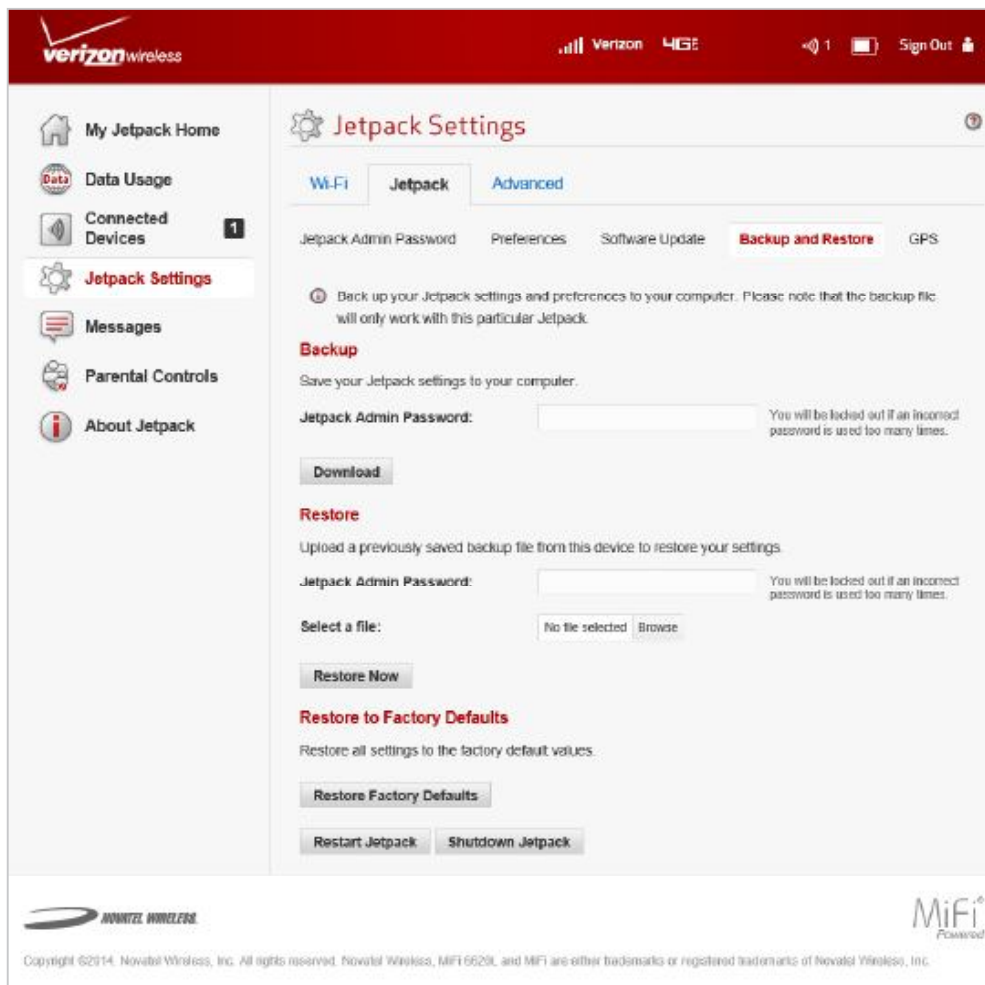
At the bottom of the page, there is a Novatel Wireless logo and a 'MiFi Powered' logo. A copyright notice at the very bottom reads: 'Copyright ©2014, Novatel Wireless, Inc. All rights reserved. Novatel Wireless, MiFi 6020L and MiFi are either trademarks or registered trademarks of Novatel Wireless, Inc.'

MiFi 7730L Settings - Software Update

Backup and Restore

The Backup and Restore page contains the following sections:

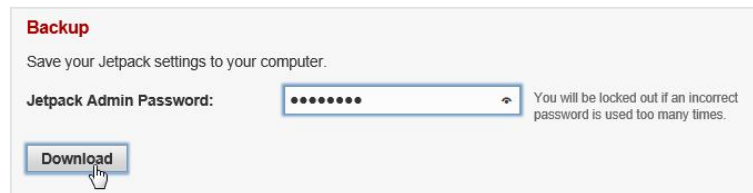
- **Backup** — Allows you to save your MiFi 7730L settings to your computer. You must enter your Admin Password in the **Admin Password** field and click **Download** to save settings to your computer.
- **Restore** — Allows you to upload a previously saved backup file from your computer to your MiFi 7730L. Click **Browse** and select a file, then enter the Admin Password in effect when the backup file was saved in the **Admin Password** field and click **Restore Now**.
- **Restore to Factory Defaults** — Allows you to restore all settings on your MiFi 7730L to the factory default values. Click **Restore Factory Defaults** to restore all such settings. If prompted for a password, use the default Admin Password which is **admin**.
- **Restart MiFi 7730L** — Use to restart your MiFi 7730L.
- **Shutdown MiFi 7730L** — Use to shutdown your MiFi 7730L.



MiFi 7730L Settings - MiFi 7730L Backup and Restore

To save your MiFi 7730L settings to your computer:

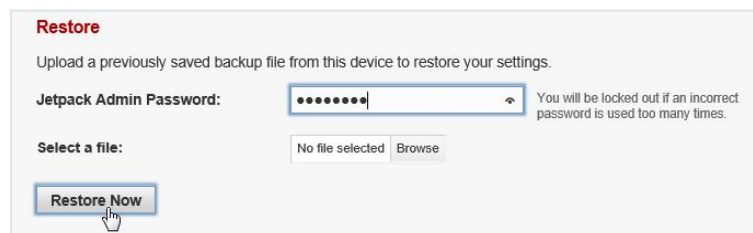
- 1 Enter your Admin Password in the Admin Password field.
- 2 Click **Download** to save your current MiFi 7730L settings to a designated location on your computer.



Download Current MiFi 7730L Settings

To restore a previous version of your MiFi 7730L settings to your MiFi 7730L device:

- 1 Click **Browse** to navigate to the desired settings backup file saved on your computer.
- 2 Enter the Admin Password in effect when the backup file was saved in the Admin Password field.
- 3 Click **Restore Now**.



Restore Previous MiFi 7730L Settings

To restore all settings on your MiFi 7730L to factory default settings:

- 1 Click **Restore Factory Defaults**.
- 2 If prompted for a password, enter the default Admin Password **admin**.

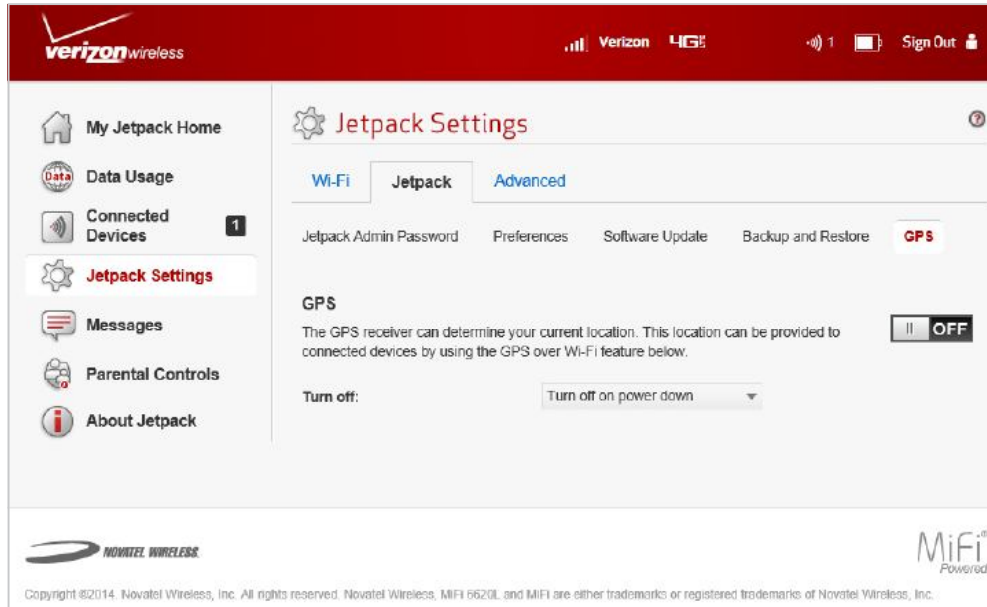


Restore Factory Defaults

GPS

The GPS page contains the following sections:

- **GPS ON/OFF** — Use this control to turn ON/OFF the GPS feature.
- **Turn off** — Allows you to set when the GPS receiver will turn off, once it is on.
- **GPS over Wi-Fi (NMEA)** — Allows you to download and install the GPS over Wi-Fi driver for your computing platform.



MiFi 7730L Settings - MiFi 7730L GPS

To turn GPS ON:

- 1 Slide the ON/OFF button to **ON**.
- 2 Select the desired turn off option from the drop down menu. The choices are **Turn off on power down** or **Always on**.

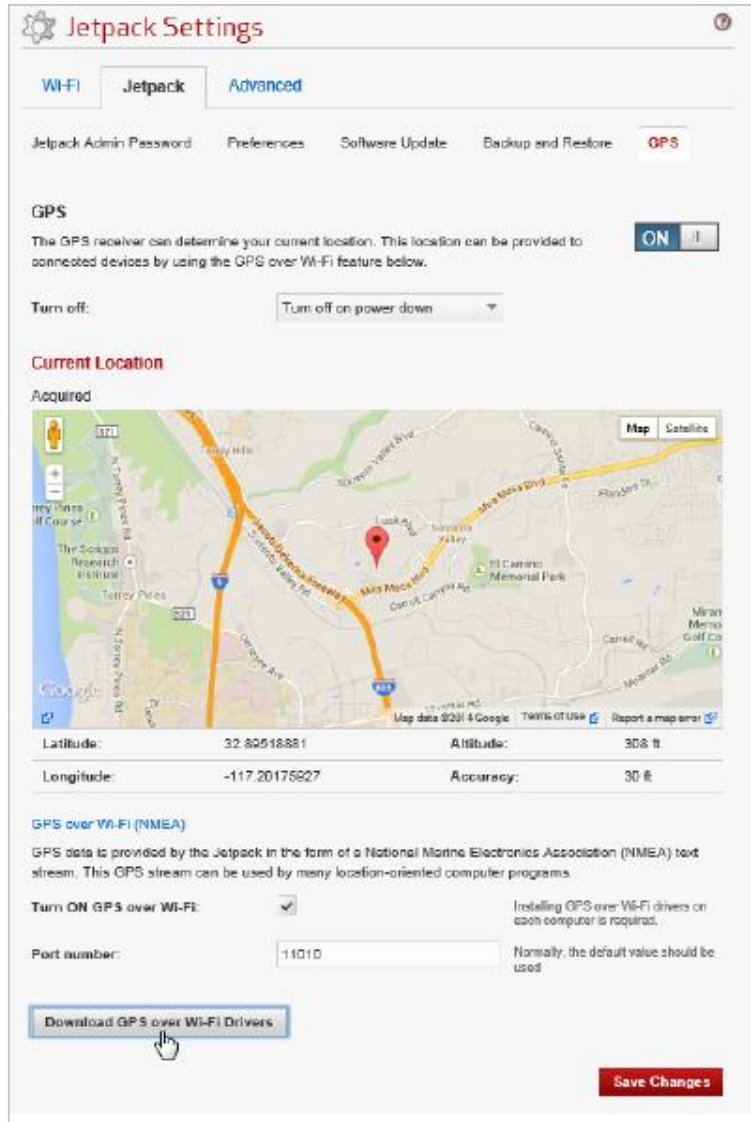


MiFi 7730L Settings - MiFi 7730L GPS Turn ON

To activate GPS over Wi-Fi (NMEA):

- 1 Click **GPS over Wi-Fi (NMEA)**.
- 2 Click the **Turn ON GPS over Wi-Fi** checkbox.
- 3 Click **Download GPS over Wi-Fi Drivers** and select the appropriate driver from the list of available drivers. Save the driver to the desired location on your computer.
- 4 Open the driver .exe file and follow the installation instructions.

Click **Save Changes** to finalize and accept the new GPS settings.

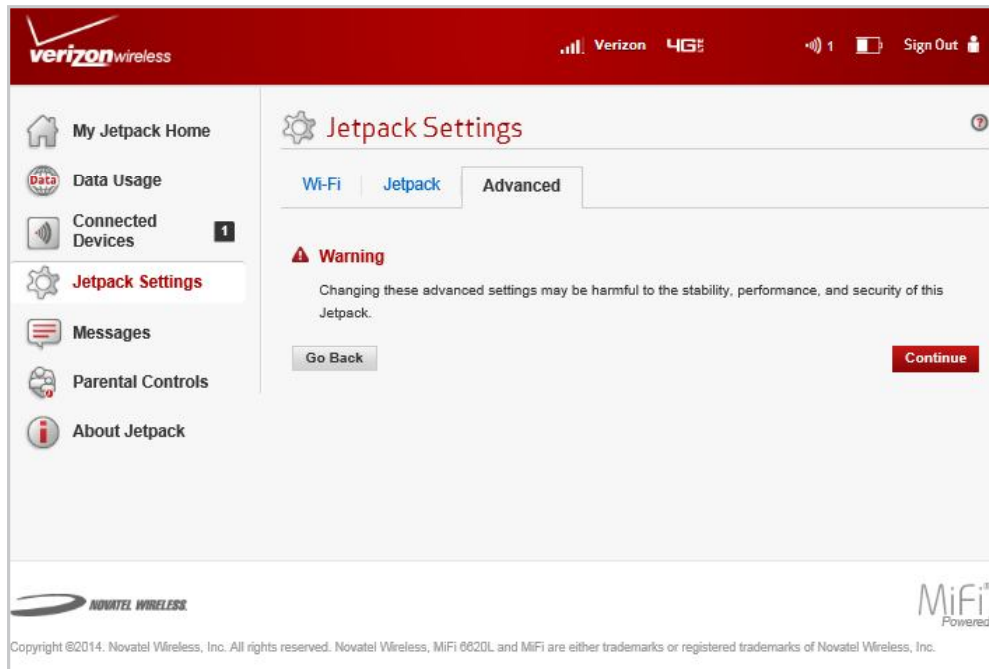


MiFi 7730L Settings - MiFi 7730L GPS download GPS over Wi-Fi Drivers

Advanced

The Advanced section allows you to change the MiFi 7730L advanced settings. The Advanced page provides network, manual DNS, SIM, firewall, MAC filter and LAN settings, as well as options for configuring port filtering and forwarding applications.

IMPORTANT! Changing the MiFi 7730L's Advanced settings can adversely affect stability, performance and security of the MiFi 7730L.

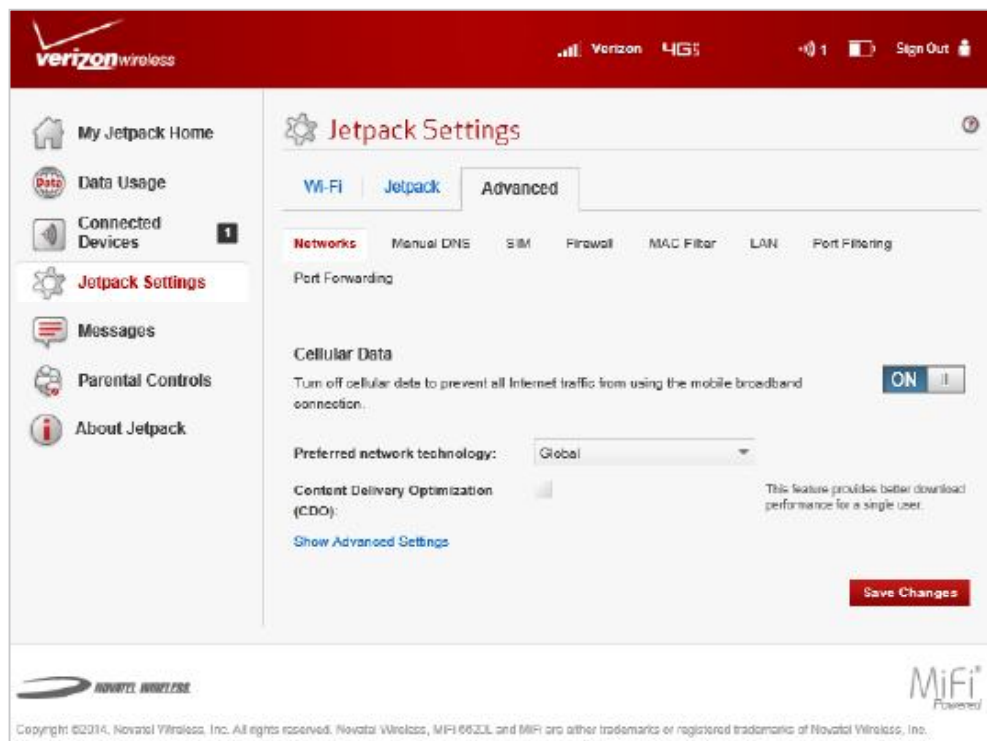


MiFi 7730L Settings - Advanced Settings Warning

Click **Continue** on the Advanced page to access Advanced page options.

The Advanced page contains the following menu options:

- **Networks** (See [Networks](#) on page 72.)
- **Manual DNS** (See [Manual DNS](#) on page 74.)
- **SIM** (See [SIM](#) on page 75.)
- **Firewall** (See [Firewall](#) on page 76.)
- **MAC Filter** (See [MAC Filter](#) on page 77.)
- **LAN** (See [LAN](#) on page 78.)
- **Port Filtering** (See [Port Filtering](#) on page 79.)
- **Port Forwarding** (See [Port Forwarding](#) on page 82.)

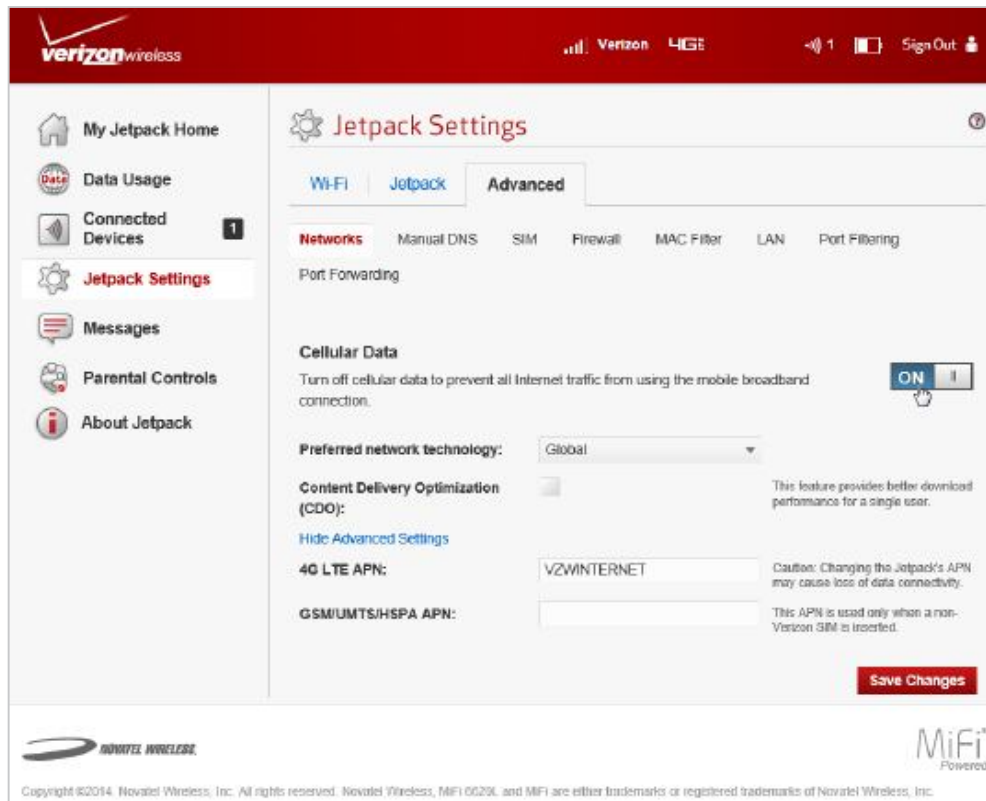


MiFi 7730L Settings Advanced - Networks

Networks

The Networks menu contains the following sections:

- **Cellular Data** — Allows you to turn off cellular data to prevent all internet traffic from using the MiFi 7730L mobile broadband connection.
- **Preferred network technology** — Allows you to select the network technologies which will be used. The choices are Global, LTE only, CDMA only, and LTE/UMTS/GSM.
- **Content Delivery Optimization (CDO)** — Provides better download performance for a single user.
- **Show Advanced Settings** — Click to display or change the following:
 - » **4G LTE APN** — Displays the network carrier APN
 - » **GSM/UMTS/HSPA APN** — Use only when a non-Verizon SIM is inserted.
- **Save Changes** — Use to activate and save new settings.



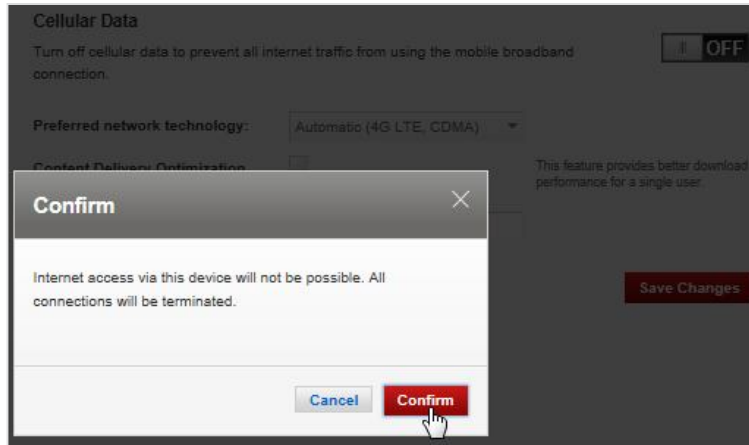
MiFi 7730L Settings Advanced Networks - Cellular Data ON

To turn off cellular data and prevent all internet traffic from using the MiFi 7730L mobile broadband connection:

- 1 Slide the Cellular Data ON/OFF button to **OFF**.
- 2 Click **Confirm** on the Confirm warning pop-up window.

NOTE All internet connections will be immediately terminated when you click **Confirm**.

- 3 Click **Save Changes** to accept and finalize the new Advanced Networks settings.



Turn Cellular Data OFF Confirmation

To change your preferred network technology:

- 1 Select the desired network technology from the dropdown menu. Choose from Global, LTE only, CDMA only, and LTE/UMTS/GSM.
- 2 Click **Save Changes** to accept and finalize the revised preferred network setting.

To turn on Content Delivery Optimization for better download performance for a single user:

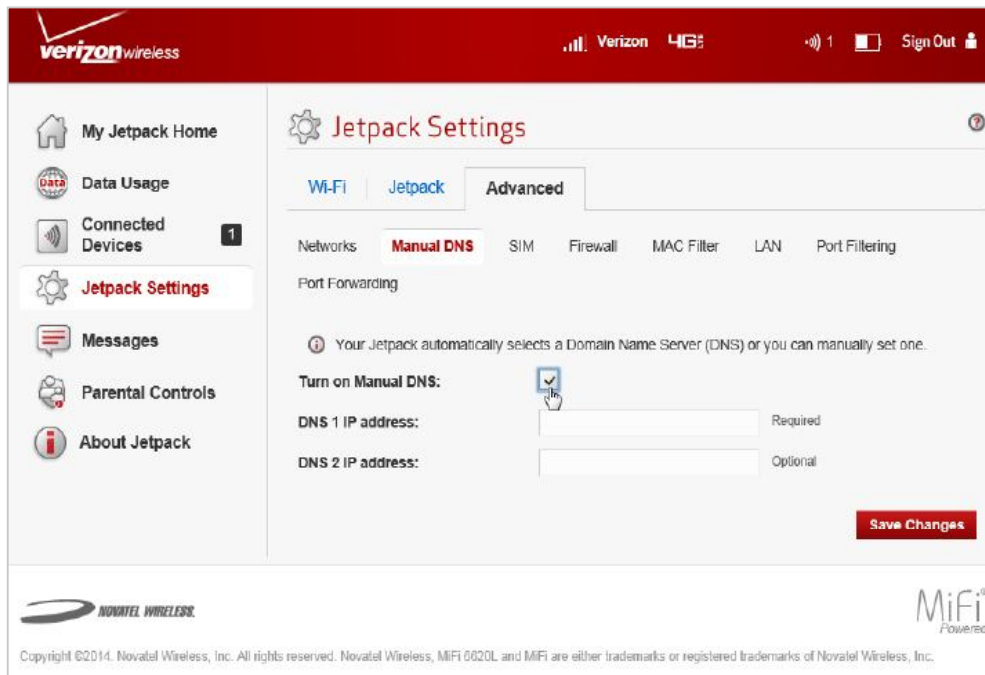
- 1 Click the Content Delivery Optimization checkbox.
- 2 Click **Save Changes** to accept and finalize the revised CDO setting.

To display or change the Networks Advanced Settings:

- 1 Click **Show Advanced Settings**. The 4G LTE APN displays the pre-configured APN and should not be changed unless you have a corporate account with your own APN.
- 2 If you are using a non-Verizon SIM, enter the APN in the **GSM/UMTS/HSPA APN** field.

Manual DNS

The MiFi 7730L automatically selects a Domain Name Server (DNS). The Manual DNS menu allows you to manually select up to two DNS IP addresses.



MiFi 7730L Settings Advanced - Manual DNS

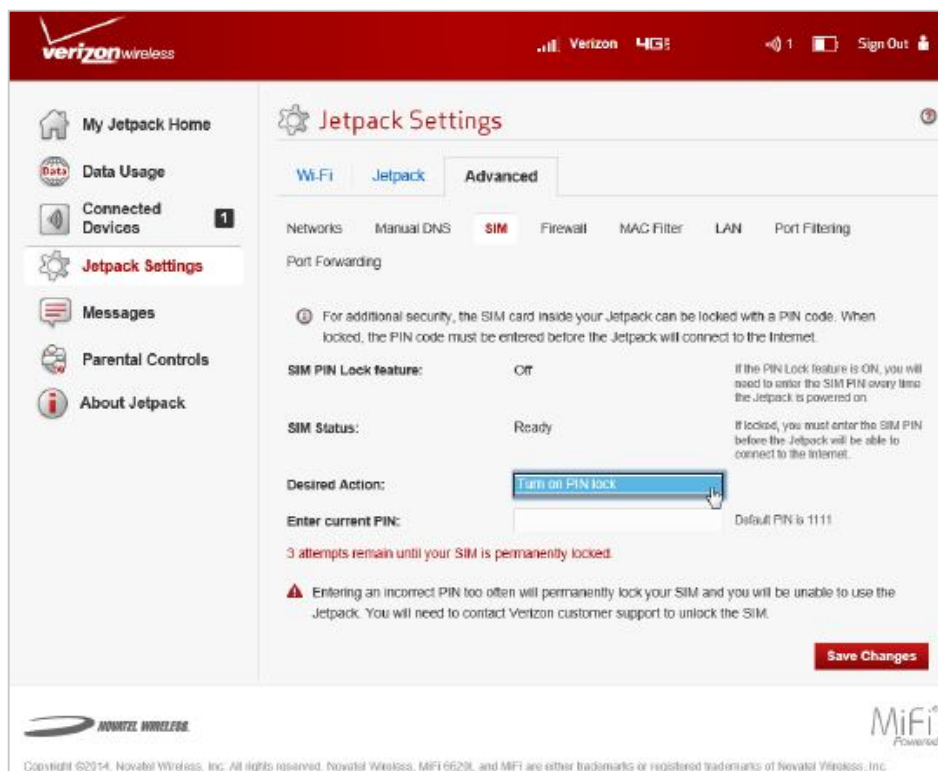
To manually select a Domain Name Server:

- 1 Click the box next to **Enable manual DNS**.
- 2 Enter the IP address for the first DNS in the **DNS 1 IP address** field.
- 3 Enter the IP address for the second DNS in the **DNS 2 IP address** field, if applicable.
- 4 Click **Save Changes**.

SIM

The SIM menu gives you settings and information about the MiFi 7730L's Subscriber Identity Module (SIM) card. The SIM card inside your MiFi 7730L can be locked with a PIN code for additional security. If locked, the PIN code must be entered before the MiFi 7730L can connect to the Internet. The SIM menu takes you to the SIM page. The SIM menu has the following options:

- **SIM PIN Lock feature** — Indicates whether or not the PIN lock feature is in use. If ON, the PIN lock has been turned on, and the SIM PIN must be entered in order to connect to the mobile network. If OFF, the PIN lock feature is not turned on, and the SIM PIN is not required.
- **SIM status** — Indicates the current status of the SIM card. Possible values include:
 - **Ready** — This is the normal state. The SIM PIN is not used.
 - **PIN Locked** — The SIM PIN must be entered before you can use the mobile network.
 - **PUK Locked** — The PUK for the SIM must be entered in order to continue. The PUK can be obtained from your service provider.
 - **Unlocked** — The SIM PIN is needed, but has already been entered.
 - **No SIM** — No SIM was detected. If you do have a SIM, check that it is inserted correctly.
 - **SIM Error** — A SIM was detected, but it did not respond as expected, and cannot be used.
- **Desired action** — Allows you to turn the PIN lock feature ON/OFF.
- **Enter current PIN** — Type the desired PIN in the **Enter current PIN** field. The default PIN is 1111.
- **Save Changes** — Use to activate and save new settings.



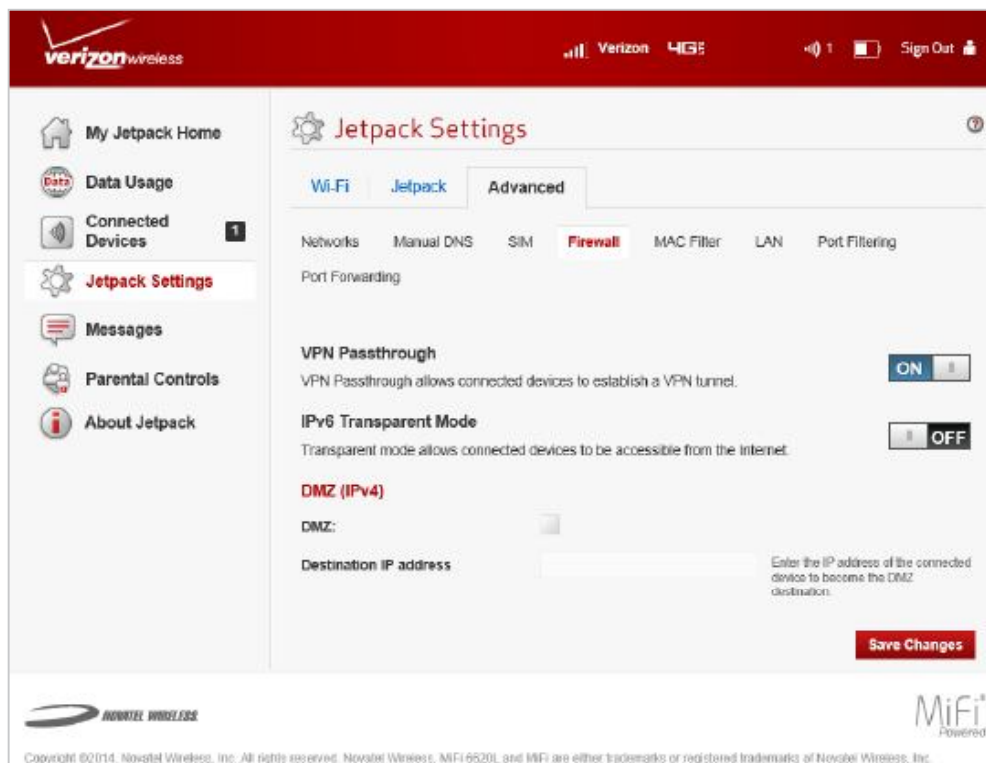
MiFi 7730L Settings Advanced - SIM

IMPORTANT! Entering an incorrect PIN will lock the SIM. **The default PIN is 1111.**

Firewall

The MiFi 7730L firewall determines which Internet traffic is allowed. The Firewall menu contains the following sections:

- **VPN Passthrough** — Turns ON/OFF the VPN feature and allows or disallows connected devices to establish a VPN tunnel.
 - If **ON**, this feature allows VPN clients to connect through the MiFi 7730L to remote VPN Servers. Normally, this option should be turned on.
 - If **OFF**, VPN clients are not allowed to connect.
- **IPv6 Transparent Mode** — Allows connected devices to be accessible from the Internet.
- **DMZ (IPv4)** — Allows the connected device specified as the DMZ IP address to receive all traffic which would otherwise be blocked by the firewall.
 - **DMZ (checkbox)** — Use the checkbox to turn ON/OFF the DMZ feature.
 - **DMZ IP Address** — Enter the IP address of the connected device you wish to become the DMZ device.
- **Save Changes** — Use to activate and save new settings.



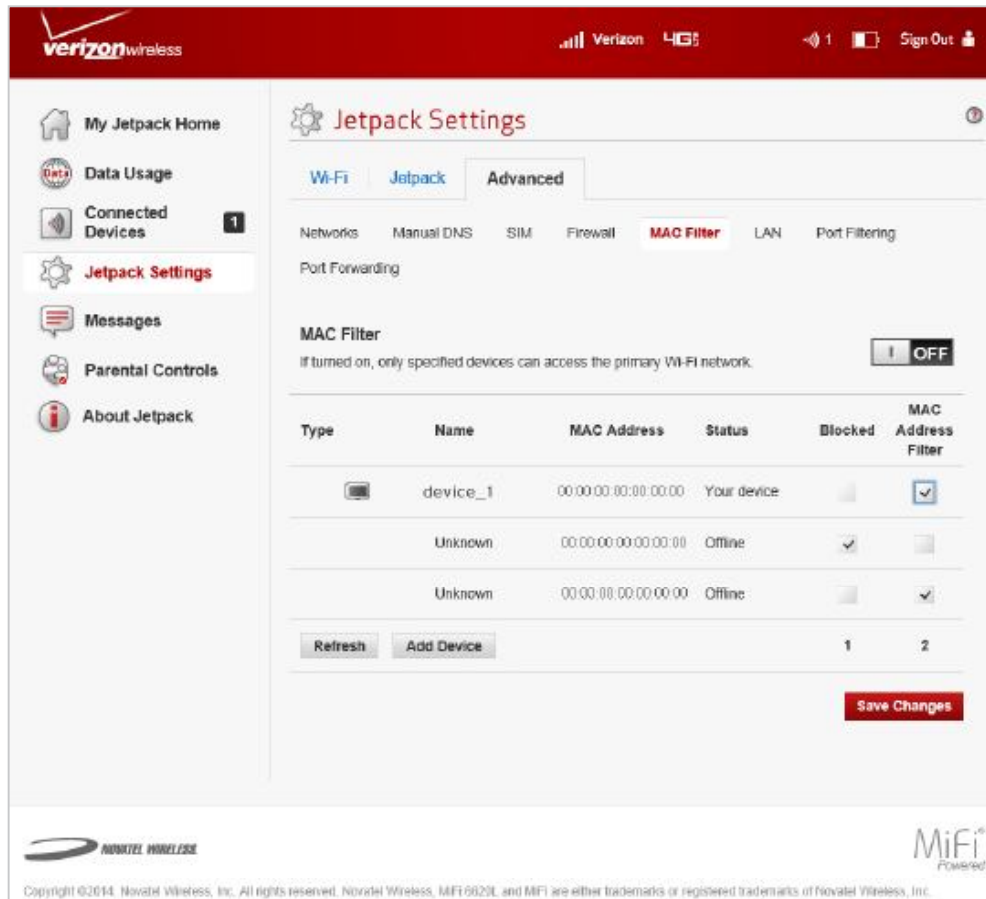
MiFi 7730L Settings Advanced - Firewall

MAC Filter

The MAC Filter allows you to specify which devices can access the MiFi 7730L Wi-Fi network.

ON/OFF — Turns the MAC Filter ON/OFF. Before turning on, ensure that the Allowed Devices list is not empty. When turning on, any Connected Device which is not in the Allowed Devices list will immediately be disconnected.

- **Refresh** — Use to refresh the screen and delete any unsaved changes.
- **Add Device** — Use to add a new device to the devices list.
- **Save Changes** — Use to activate and save new settings.



MiFi 7730L Settings Advanced - MAC Filter

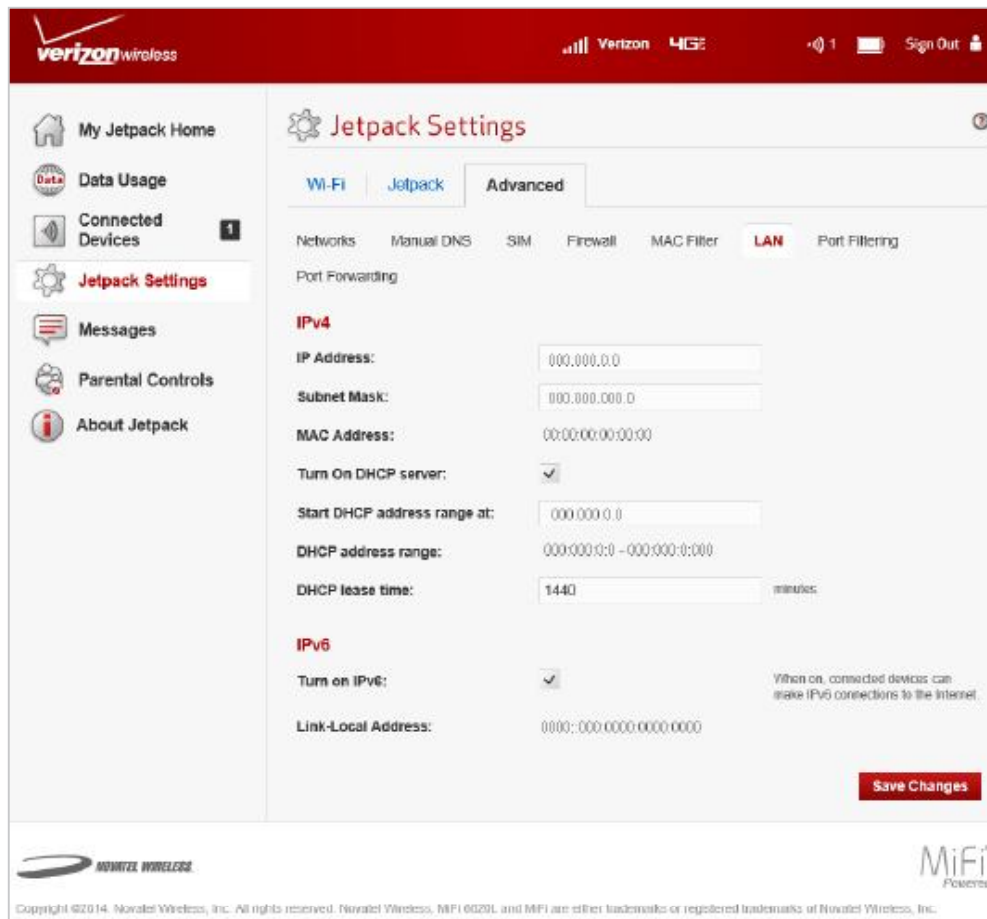
To add a device to the device list:

- 1 Click **Add Device** and enter the device name in the Name field.
- 2 Select the device type from the **Type** dropdown menu.
- 3 Enter the MAC Address in the **MAC Address** field.
- 4 Mark the **Blocked** and/or **MAC Address Filter** check box as required.
- 5 Click **Save Changes** to activate and save the settings.

LAN

The LAN page gives you settings and information about the MiFi 7730L's network. The LAN menu contains the following sections:

- **IPv4**
 - **IP address** — The IP address for the MiFi 7730L.
 - **Subnet mask** — The subnet mask network setting for the MiFi 7730L. The default value 255.255.255.0 is standard for small (class "C") networks. If you change the LAN IP Address, ensure you use the correct Subnet Mask for the IP address range containing the LAN IP address.
 - **MAC address** — The Media Access Controller (MAC) or physical address for the MiFi 7730L.
 - **Turn On DHCP server** — The **Turn On DHCP Server** checkbox enables or disables the DHCP Server feature. Normally this should be left turned on.
 - **Start DHCP address range at** — The start range of IP addresses reserved for use by the MiFi 7730L's DHCP server table.
 - **DHCP address range** — The current range of IP addresses reserved for use by MiFi 7730L's DHCP server table. If a device with a static IP address wants to connect to MiFi 7730L's network, the static IP should be outside of the DHCP address range. Most devices do not have a static IP.
 - **DHCP lease time** — Use to determine how often connected devices must renew the IP address assigned to them by the DHCP server. Normally this is left at the default value, but if you have special requirements you can change the value.
- **IPv6**
 - **Enable IPv6** — The **Enable IPv6** checkbox turns ON/OFF the IPv6 feature.
 - **Link-Local address** — Displays the local address when IPv6 is turned on.
- **Save Changes** — Use to activate and save new settings.



MiFi 7730L Settings Advanced - LAN

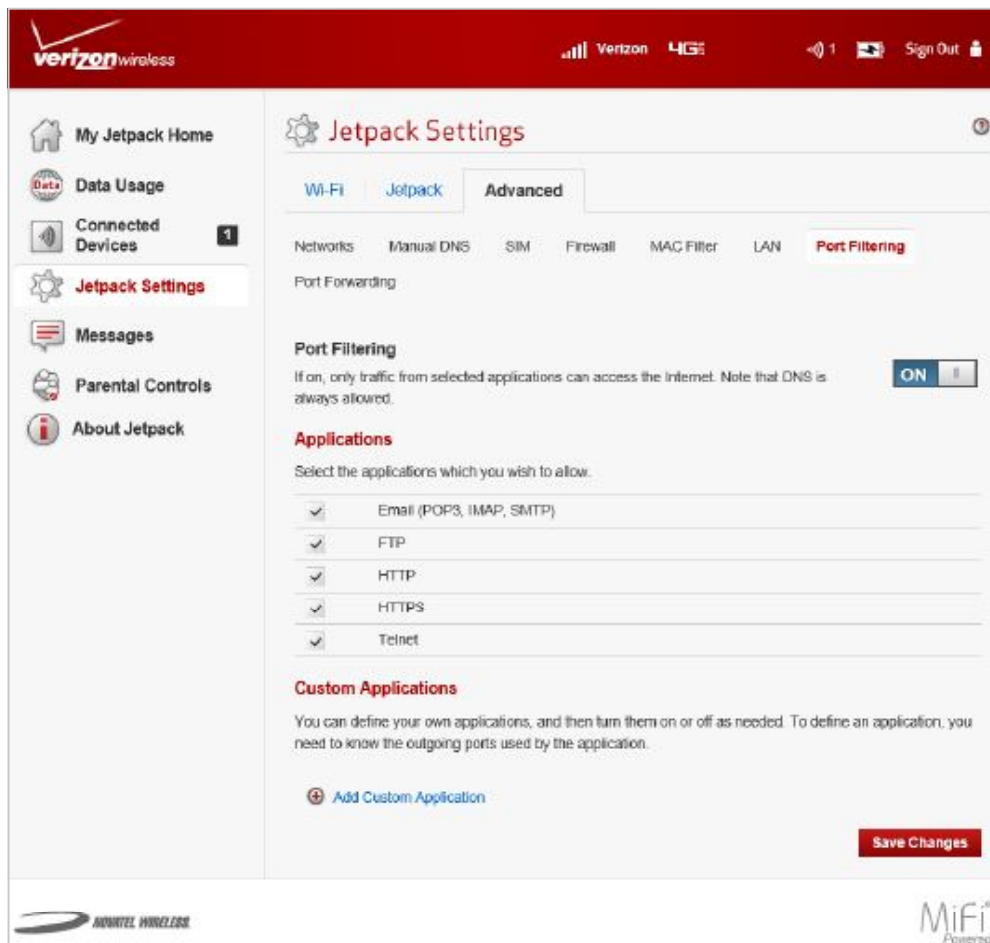
Port Filtering

Port Filtering allows you to block outgoing Internet connections and permit only allowed applications to access the Internet. You can also customize a list of allowed applications which permits only certain programs to connect to the Internet.

Slide the **ON/OFF** button to **ON** to turn on Port Filtering. When the feature is **turned on** you must select a port filtering application in the **Applications** list to allow that application to connect to the Internet. For example, if you select VPN in the Applications list but do not select HTTP, you can connect to a VPN server but you cannot connect to a web page using your Internet browser.

The Port Filtering menu contains the following sections:

- **Applications** — Turn on each port filtering application that needs to be able to access the Internet by checking the box next to one or more applications. When port filtering is turned on, all other applications are blocked.
- **Custom Applications** — You can define your own applications, and then turn them ON/OFF as needed. To define an application, you need to know the outgoing ports used by the application.
 - **Add Custom Application** — Use to define your own applications, and then turn them on or off as needed.
- **Save Changes** — Use to activate and save new settings.



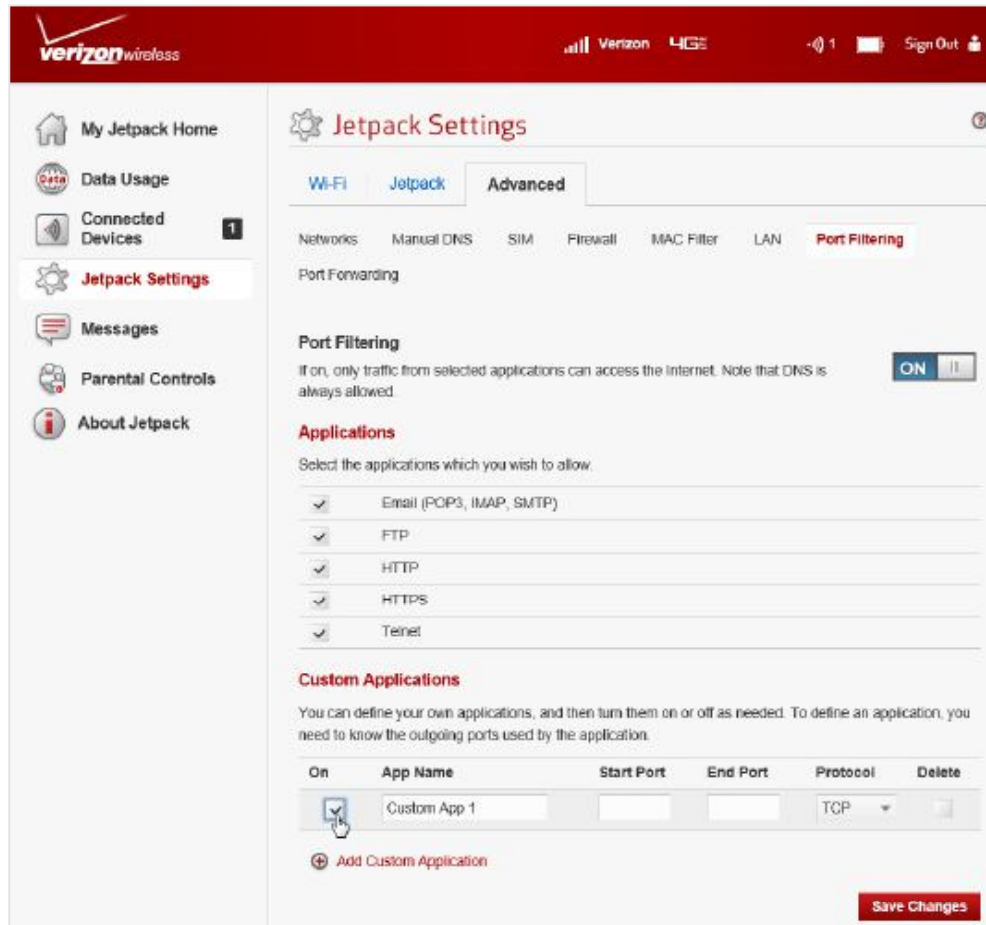
MiFi 7730L Settings Advanced - Port Filtering

To select the applications you wish to allow:

- 1 Mark the checkbox to the left of the application. The choices are Email (POP3, IMAP, SMTP), FTP, HTTP, HTTPS, and Telnet.
- 2 Click **Add Custom Application** to add a new custom application to the list of allowed applications. You can define and turn on custom Port Filtering applications. You need to know details of the traffic used and generated by the applications you wish to define.

NOTE The **Add Custom Application** option is only available when port filtering is turned **ON**. You can add up to ten custom applications.

The Custom Port Filtering page uses check boxes to turn on port filtering for custom applications. Similar to the Applications list, you must turn on custom applications so they can connect to the Internet.



MiFi 7730L Settings Advanced Port Filtering - Add Custom Application

- 3 Enter the beginning of the range of port numbers used by outgoing traffic for the custom application being added in the **Start Port** field.
- 4 Enter the end of the range of port numbers in the **End Port** field. If the port is a single port instead of a range, type the same value for both the **Start Port** and the **End Port**.
- 5 Select the protocol (TCP, UDP, or both) used by each port range from the **Protocol** dropdown menu.
- 6 Click **Save Changes** to activate and save any changes made to the custom applications.
- 7 Select the **Delete** checkbox next to any custom application you wish to delete and click **Save Changes**.

NOTE Click on the **Port Filtering** menu tab again to remove deleted custom applications from view on the screen.

Port Forwarding

Port Forwarding allows incoming traffic from the Internet to be forwarded to a particular computer or device on your Wi-Fi network. Normally, the built-in firewall blocks incoming traffic from the Internet. Use Port Forwarding to allow Internet users to access any server you are running on your computer, such as a Web, FTP, or E-mail server. For some online games, Port Forwarding must be used in order for the games to function correctly. The Port Forwarding menu contains the following sections:

- **ON/OFF** — Slide the ON/OFF button to ON to activate Port Forwarding.
- **Default Applications** — The IP address for the selected application. Choose from DNS, FTP, HTTP, POP3, SMTP, SNMP Telnet and TFTP.
- **Custom Applications**
 - **Add Custom Application** — Allows you to define your own applications. Once defined, these applications can be turned ON/OFF in the same way as pre-defined applications.
 - **Save Changes** — Use to activate and save new settings.

The screenshot shows the Verizon Jetpack Settings app interface. The top navigation bar is red with the Verizon logo and status icons for signal strength, Verizon 4G LTE, battery level, and a 'Sign Out' button. The left sidebar contains menu items: My Jetpack Home, Data Usage, Connected Devices (with a notification badge), Jetpack Settings (highlighted), Messages, Parental Controls, and About Jetpack. The main content area is titled 'Jetpack Settings' and has tabs for 'Wi-Fi', 'Jetpack', and 'Advanced'. Under the 'Advanced' tab, there are sub-tabs for 'Networks', 'Manual DNS', 'SIM', 'Firewall', 'MAC Filter', 'LAN', and 'Port Filtering'. The 'Port Forwarding' section is active, showing a toggle switch set to 'ON'. Below this is a 'Default Applications' table with columns for 'Application' and 'IP Address'. The table lists DNS, FTP, HTTP, POP3, SMTP, SNMP, Telnet, and TFTP, with checkboxes for each. Below the table is a 'Custom Applications' section with a descriptive paragraph and a table with columns: 'On', 'App Name', 'IP Address', 'Start Port', 'End Port', 'Protocol', and 'Delete'. One custom application, 'Custom App 1', is listed with a checked 'On' box and a 'TCP' protocol. At the bottom right of the settings area is a red 'Save Changes' button. The footer of the app includes the Novatel Wireless logo, copyright information for 2014, and the 'MiFi Powered' logo.

MiFi 7730L Settings Advanced - Port Forwarding

Universal Charging allows you to charge your phone or other device using your MiFi 7730L. You can also set battery charging limits, check current charging availability, and customize your device preferences.

On the MiFi 7730L Display

To charge your phone or other device using your MiFi 7730L:

- 1 On the Home screen, scroll to the Universal Charging icon and press the select button to display an animation showing how to connect and charge a phone or other device using the Universal Charging port.
- 2 Select **More** to display charging status.
- 3 Select **Exit** to return to the Home screen.



Universal Charging Option



Instruction Animation



Instruction Animation



Current Charging Availability

On the MiFi 7730L Admin Website

The MiFi 7730L Settings MiFi 7730L Preferences page provides many options to customize the behaviour of your MiFi 7730L. (See [Preferences](#) on page 64.)

Wi-Fi Protected Setup (WPS)

WPS is a system that allows Wi-Fi devices to connect to a Wi-Fi network without having to manually enter the network key, and is accessible through the MiFi 7730L display.

On the MiFi 7730L Display

To start Push Button WPS:

- 1 On the Home screen, scroll to the WPS icon and press the select button to display WPS Method options.
- 2 Navigate to the Start Push Button option and press the select button. WPS starts and you have 2 minutes to press the WPS button on the Wi-Fi device you want to connect to your MiFi 7730L to complete automatic setup.
- 3 To exit the Push Button WPS option and return to the Home screen, navigate to Exit and press the select button.



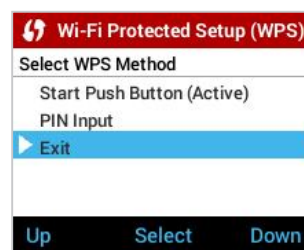
WPS Option



Start Push Button Method



Push Button WPS Started



Exit WPS Setup

To start PIN Input WPS:

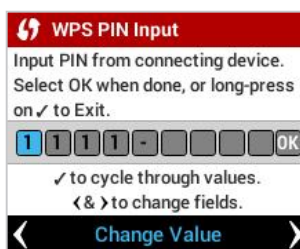
- 1 On the Home screen, scroll to the WPS icon and press the select button to display WPS Method options.
- 2 Navigate to the PIN Input option and press the select button. Follow the instructions on the screen to enter a PIN and connect the selected Wi-Fi device to your MiFi 7730L.
- 3 To exit the PIN Input WPS option and return to the Home screen, navigate to Exit and press the select button.



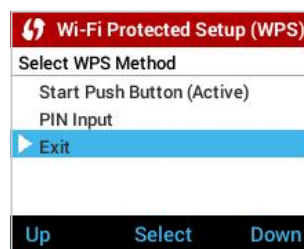
WPS Option



Select PIN Input Method



Input PIN



Exit WPS Setup

On the MiFi 7730L Admin Website

To turn on the WPS system on your MiFi 7730L:

- 1 Select **MiFi 7730L Settings > Wi-Fi Options**.
- 2 Mark the **WPS** checkbox, then click **Save Changes**.

The screenshot shows the Verizon Jetpack Settings website. The left sidebar contains navigation options: My Jetpack Home, Data Usage, Connected Devices, Jetpack Settings (highlighted), Messages, Parental Controls, and About Jetpack. The main content area is titled 'Jetpack Settings' and has tabs for 'Wi-Fi', 'Jetpack', and 'Advanced'. The 'Wi-Fi' tab is active, showing a notification that changes may require reconnecting devices. The 'Wi-Fi' section has a toggle switch set to 'ON'. Below this are settings for Wi-Fi name (SSID), Security (WPA2 Personal PSK (AES)), and Wi-Fi password (Key). There are also settings for Max Wi-Fi connections (15), Band (2.4 GHz), and 2.4 GHz Band Settings (802.11g + 802.11n). The 5 GHz Band Settings section shows Bandwidth (20/40 MHz) and 802.11 Mode (802.11n + 802.11a). The 'Wi-Fi Options' section includes checkboxes for WPS (checked), Display the Wi-Fi name on Jetpack screen (checked), Display the Wi-Fi password on Jetpack screen (checked), Broadcast Wi-Fi name (SSID) (checked), Wi-Fi Multimedia (WMM) (checked), and Wi-Fi privacy separation (unchecked). A 'Save Changes' button is at the bottom right. The footer contains the Verizon logo and MiFi Personal branding.

MiFi 7730L Settings Wi-Fi - Turn ON WPS

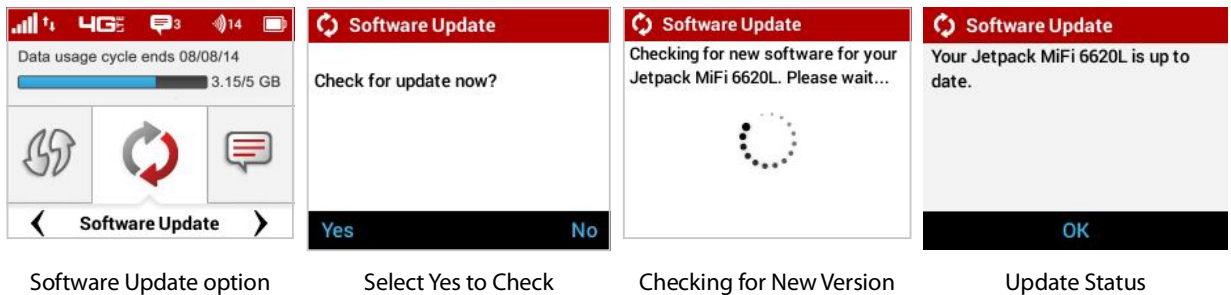
Software Update **FPO** – Content in revision

Software Update allows you to view the current software version and when the last check was made for updates, lists available updates, and provides an update history. You can also download and install a new update using your MiFi 7730L device.

On the MiFi 7730L Display

To check for a Software update:


- 1 On the Home screen, scroll to the Software Update icon and press the select button to display the current Software Version and last check for an update. Press the select button to move to the Software Update page.
- 2 Select **Yes**, then press the select button to check for an update. If an update is available, you can choose to download and install the update using your MiFi 7730L device.
- 3 Press/hold the select button to return to the Home screen.

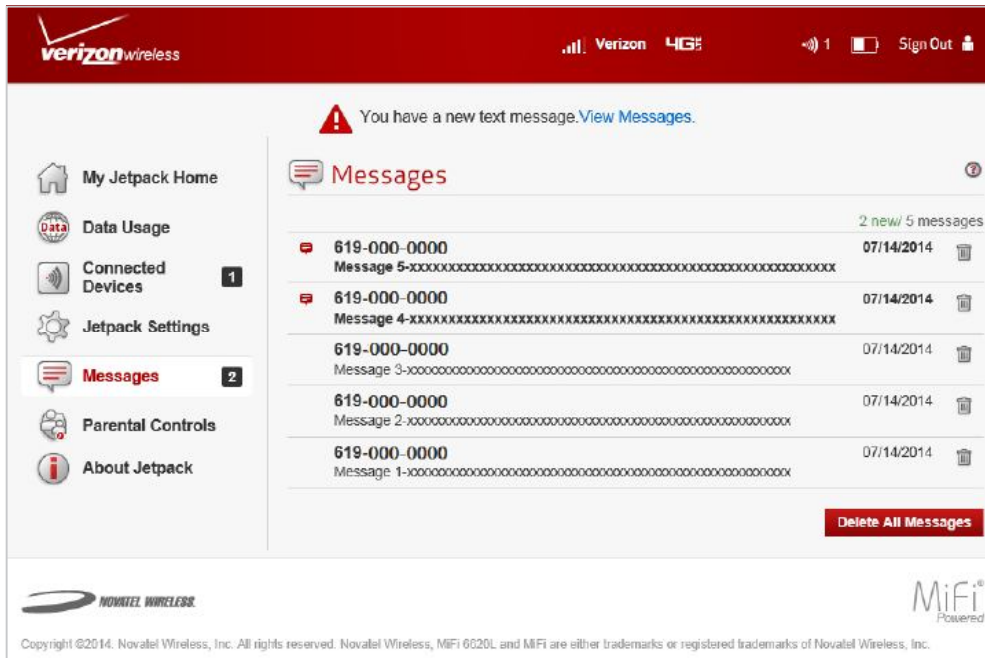


On the MiFi 7730L Admin Website

The Software Update page displays the current software version, and when a check is made for updates lists available updates and provides an update history. (See Software Update on page 65.)


On the MiFi 7730L Admin Website

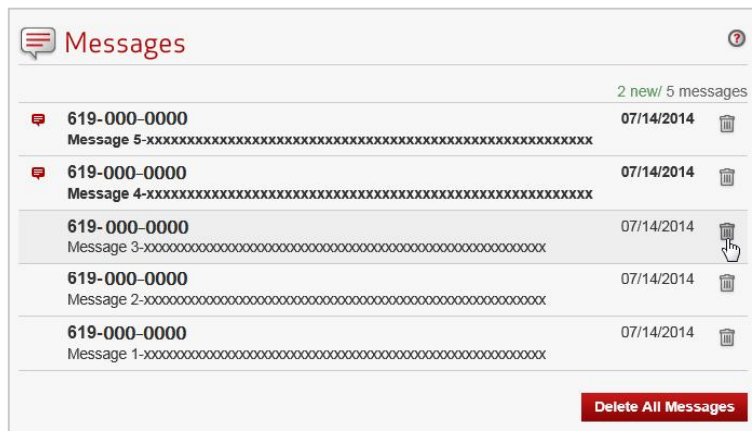
The MiFi 7730L Messages page displays all existing Verizon system messages, and allows you to delete messages individually or all messages at one time. Unread messages are marked with a red message icon .



MiFi 7730L Messages

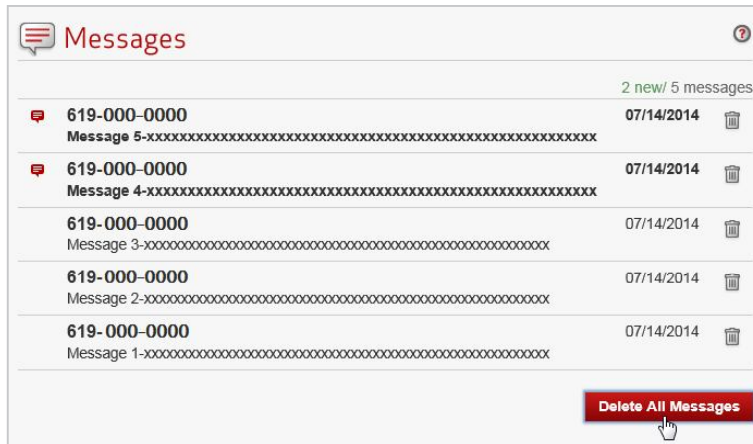
To delete existing messages:

- 1 To delete one message at a time, click the garbage can icon  for each message you want to delete.



MiFi 7730L Messages - Delete

- 2 To delete all messages at one time, click **Delete All Messages** at the bottom of the page.

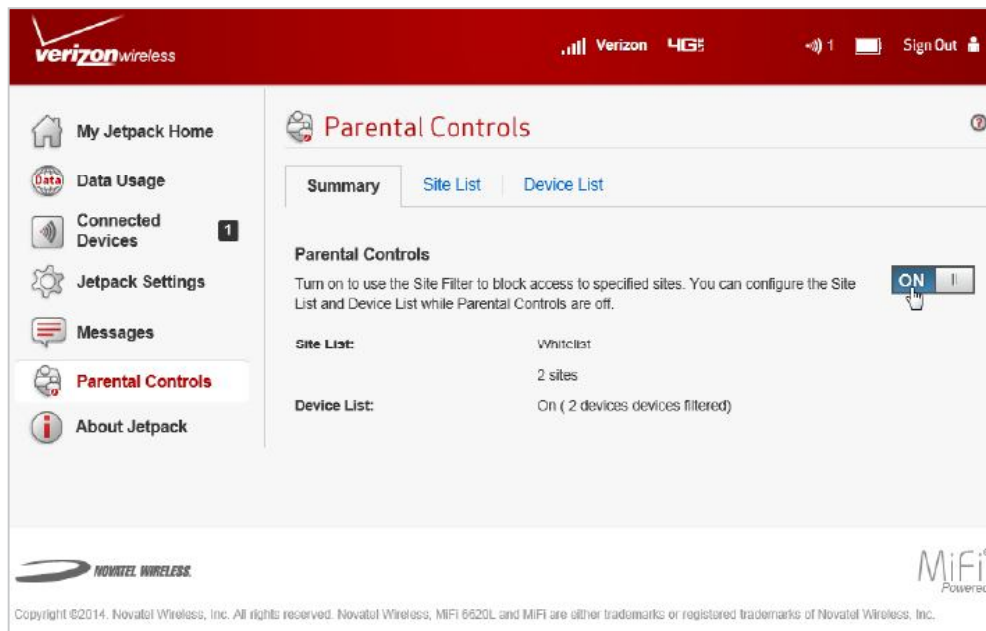


MiFi 7730L Messages - Delete All

Parental Controls - Content in revision

Parental Controls options are available on the MiFi 7730L Admin website, and allow you to block or allow access to specified sites. The block/allow function can be applied to all devices or specified devices only. The Parental Controls page includes the following sections:

- **Summary** (See [Summary](#) on page 90.)
- **Site List** (See [Site List](#) on page 90.)
- **Device List** (See [Device List](#) on page 93.)



MiFi 7730L Parental Controls - Summary

Summary

The Parental Controls Summary section allows you to turn the Site List **ON/OFF**, and displays Site List and Device List status information

To turn on the Site Filter and block access to specified sites, slide the **ON/OFF** button to **ON**.

Site List

The Parental Controls Site List section allows you to block access to a list of sites, or allow access only to specified sites.

To block access to a list of sites:

- 1 Select the **Block List** button to display a list of currently blocked sites.
- 2 Click **Add Website** to display a new field where you can enter the domain name of an additional site to block. Repeat until you have entered all sites you want to block.

- 3 Click **Save Changes** to update and save the revised Block List.

The screenshot shows the 'Parental Controls' interface with the 'Site List' tab selected. A warning message states: 'Unsaved changes. Your new list is not applied until you click the "Save Changes".' Below this, there are radio buttons for 'Block List' (selected) and 'Allow List'. A '3 Sites' indicator is present. A table lists three blocked sites: www.blockedsite1.com, www.blockedsite2.com, and www.blockedsite3.com. Each site has a 'Delete' checkbox. An 'Add Website' button is highlighted with a mouse cursor, and a 'Save Changes' button is at the bottom right.

MiFi 7730L Parental Controls Site List - Block List Add

To delete a site from the Blocked List:

- 1 Select the **Block List** button to display the current list of blocked sites.
- 2 Select the **Delete** checkbox for the site you want to delete. To delete all blocked sites, click **Select All**.
- 3 Click **Save Changes** to delete the selected sites and save the revised Block List.

The screenshot shows the 'Parental Controls' interface with the 'Site List' tab selected. A warning message states: 'Unsaved changes. Your new list is not applied until you click the "Save Changes".' Below this, there are radio buttons for 'Block List' (selected) and 'Allow List'. A '3 Sites' indicator is present. A table lists three blocked sites: www.blockedsite1.com, www.blockedsite2.com, and www.blockedsite3.com. Each site has a 'Delete' checkbox. The checkbox for www.blockedsite1.com is checked, and a mouse cursor is pointing at it. An 'Add Website' button is at the bottom left, and a 'Save Changes' button is at the bottom right.

MiFi 7730L Parental Controls Site List - Block List Delete

To allow access to a specified site:

- 1 Select the **Allow List** button to display the current list of allowed sites.
- 2 Click **Add Website** to display a new field where you can enter the domain name of an additional site to allow. Repeat until you have entered all sites you want to allow.
- 3 Click **Save Changes** to update and save the revised Allow List.

The screenshot shows the 'Parental Controls' interface with the 'Site List' tab selected. A warning message states: 'Unsaved changes. Your new list is not applied until you click the "Save Changes".' Below this, there are radio buttons for 'Block List' and 'Allow List', with 'Allow List' selected. A '2 Sites' indicator is present. A table titled 'Allowed Sites' contains two entries: 'www.allowsite1.com' and 'www.allowsite2.com', each with a 'Delete' checkbox. A 'Select All' button is located below the table. An 'Add Website' button is highlighted with a mouse cursor. A red 'Save Changes' button is at the bottom right.

MiFi 7730L Parental Controls Site List - Allow List Add

To delete a site from the Allow List:

- 1 Select the **Allow List** button to display the current list of allowed sites.
- 2 Select the **Delete** checkbox for the site you want to delete. To delete all blocked sites, click **Select All**.
- 3 Click **Save Changes** to delete the selected sites and save the revised Allow List.

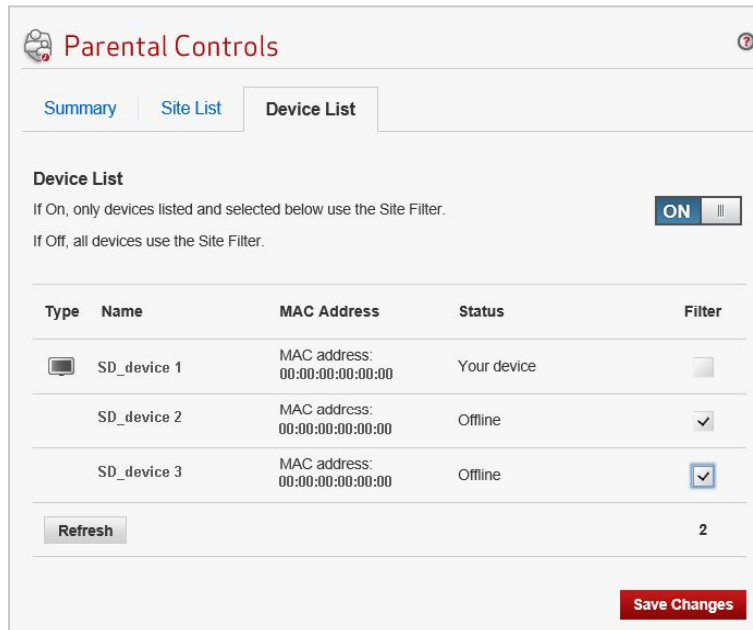
The screenshot shows the 'Parental Controls' interface with the 'Site List' tab selected. A warning message states: 'Unsaved changes. Your new list is not applied until you click the "Save Changes".' Below this, there are radio buttons for 'Block List' and 'Allow List', with 'Allow List' selected. A '2 Sites' indicator is present. A table titled 'Allowed Sites' contains two entries: 'www.allowsite1.com' and 'www.allowsite2.com', each with a 'Delete' checkbox that is checked. A 'Select All' button is highlighted with a mouse cursor. An 'Add Website' button is at the bottom left. A red 'Save Changes' button is at the bottom right.

MiFi 7730L Parental Controls Site List - Allow List Delete


Device List

The Parental Controls Device List section allows you to turn the Device List ON/OFF and identify which devices will use the Site Filter.

- If the Device List is turned ON, only devices listed and selected will use the Site Filter.

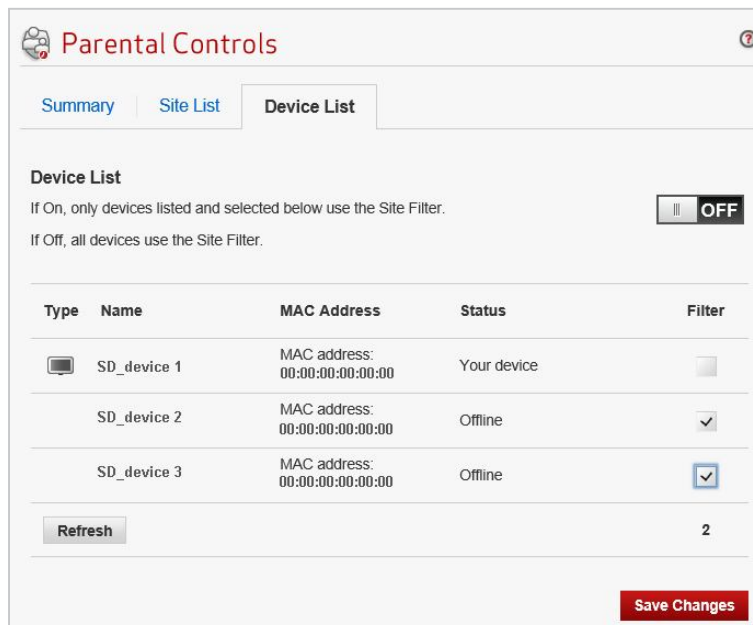


The screenshot shows the 'Parental Controls' interface with the 'Device List' tab selected. The 'Device List' toggle is set to 'ON'. Below the toggle, there is a table with columns: Type, Name, MAC Address, Status, and Filter. The table lists three devices: SD_device 1 (Your device), SD_device 2 (Offline), and SD_device 3 (Offline). The Filter column shows checkboxes: unchecked for SD_device 1, checked for SD_device 2, and checked for SD_device 3. A 'Refresh' button is located below the table, and a 'Save Changes' button is at the bottom right.


Type	Name	MAC Address	Status	Filter
	SD_device 1	MAC address: 00:00:00:00:00:00	Your device	<input type="checkbox"/>
	SD_device 2	MAC address: 00:00:00:00:00:00	Offline	<input checked="" type="checkbox"/>
	SD_device 3	MAC address: 00:00:00:00:00:00	Offline	<input checked="" type="checkbox"/>

MiFi 7730L Parental Controls Device List - ON

- If the Device List is turned OFF, all devices will use the Site Filter.



The screenshot shows the 'Parental Controls' interface with the 'Device List' tab selected. The 'Device List' toggle is set to 'OFF'. Below the toggle, there is a table with columns: Type, Name, MAC Address, Status, and Filter. The table lists three devices: SD_device 1 (Your device), SD_device 2 (Offline), and SD_device 3 (Offline). The Filter column shows checkboxes: unchecked for SD_device 1, checked for SD_device 2, and checked for SD_device 3. A 'Refresh' button is located below the table, and a 'Save Changes' button is at the bottom right.

Type	Name	MAC Address	Status	Filter
	SD_device 1	MAC address: 00:00:00:00:00:00	Your device	<input type="checkbox"/>
	SD_device 2	MAC address: 00:00:00:00:00:00	Offline	<input checked="" type="checkbox"/>
	SD_device 3	MAC address: 00:00:00:00:00:00	Offline	<input checked="" type="checkbox"/>

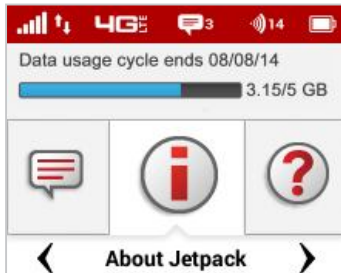
MiFi 7730L Parental Controls Device List - OFF

About MiFi 7730L - Content in revision

About MiFi 7730L displays information about your MiFi 7730L, including Internet and roaming status, model and version, wireless and IMEI number, and battery charge level.

On the MiFi 7730L Display

- 1 On the Home screen, navigate to the About MiFi 7730L icon and press the select button to open the Internet Status screen and display status information, including connection, network, technology, signal SNR and roaming.
- 2 Press the select button to navigate to the MiFi 7730L Info screen and display model number, version, wireless number, IMEI, and battery level.
- 3 Press the select button to exit the MiFi 7730L Info screen and return to the Home screen.



About MiFi 7730L Option



Internet Connection Status



MiFi 7730L Details

On the MiFi 7730L Admin website

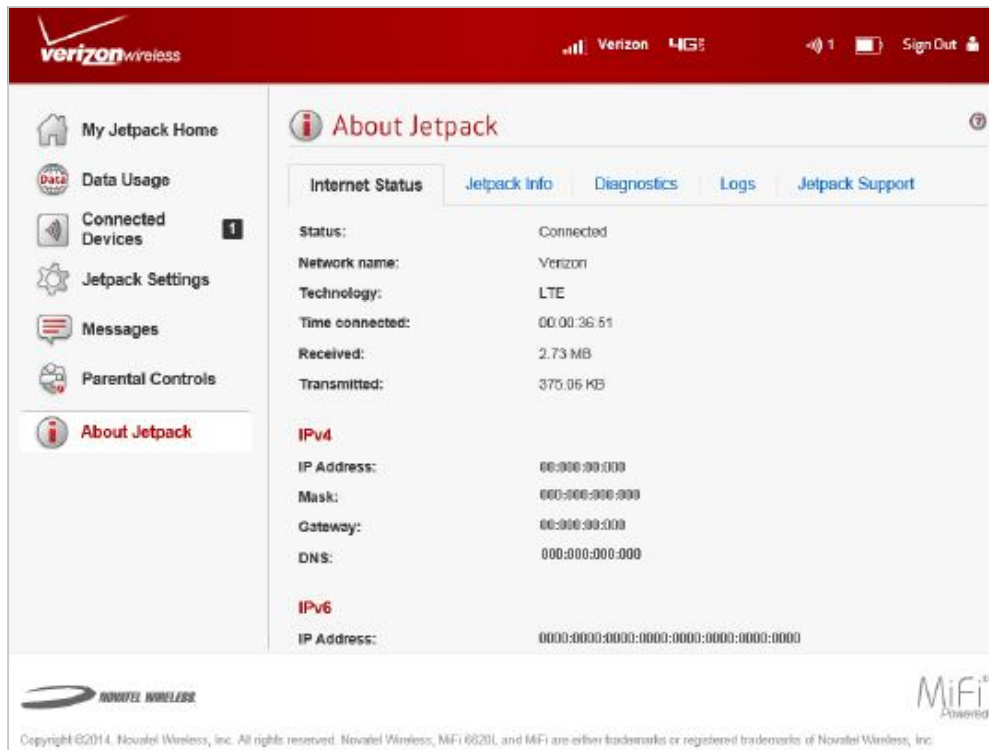
The About MiFi 7730L page allows you to view detailed information about MiFi 7730L internet status, device specific information, diagnostics, troubleshooting and support. The About page contains the following menu options:

- **Internet Status** (See [Internet Status](#) on page 95.)
- **MiFi 7730L Info** (See [MiFi 7730L Info](#) on page 97.)
- **Diagnostics** (See [Diagnostics](#) on page 98.)
- **Logs** (See [Logs](#) on page 103.)
- **MiFi 7730L Support** (See [MiFi 7730L Support](#) on page 105.)

Internet Status

The Internet Status page shows MiFi 7730L settings and status and contains the following sections:

- **Internet Status** (See [Internet Status](#) on page 96.)
- **IPv4** (See [IPv4](#) on page 96.)
- **IPv6** (See [IPv6](#) on page 96.)



About MiFi 7730L - Internet Status

Internet Status

The Internet Status section has the following options:

- **Status** — The status of the Internet connection, usually **Connected** or **Disconnected**.
- **Network name** — The name of the network to which this MiFi 7730L is currently connected.
- **Technology** — The type of technology used to connect to the Internet.
- **Time connected** — How long the MiFi 7730L has been connected to the network.
- **Transmitted** — The amount of data sent to the network.
- **Received** — The amount of data received from the network.

IPv4

The IPv4 section has the following options:

- **IP Address** — The IP address for the MiFi 7730L.
- **Mask** — The subnet mask network setting for the MiFi 7730L. The default value 255.255.255.0 is standard for small (class "C") networks. If you change the LAN IP Address, ensure you use the correct Subnet Mask for the IP address range containing the LAN IP address.
- **Gateway** — The address of the server used to access the Internet.
- **DNS** — The address of the Domain Name Server (DNS).

IPv6

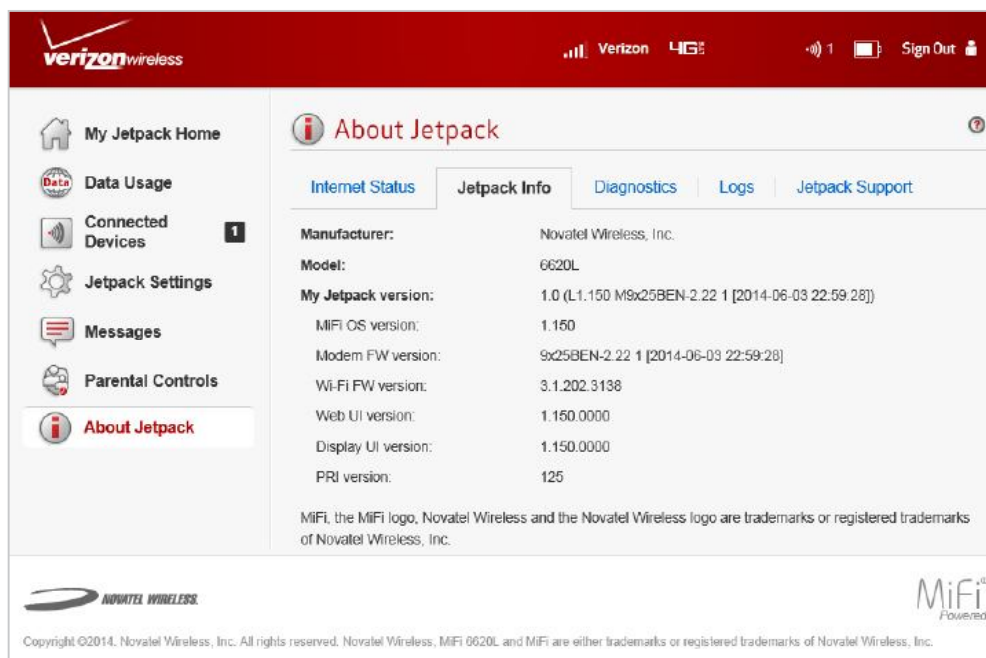
The IPv6 section has the following option:

- **IP address** — The IP address for the MiFi 7730L.

MiFi 7730L Info

The MiFi 7730L Info page contains detailed information about the MiFi 7730L. The MiFi 7730L Info page contains the following sections:

- **Manufacturer** — The manufacturer of the MiFi 7730L.
- **Model** — The model number or name of the MiFi 7730L.
- **My MiFi 7730L version** — The current MiFi 7730L version.
 - **MiFi OS version** — The MiFi 7730L operating system (OS), including its components, version.
 - **Modem FW version** — The current modem firmware version.
 - **Wi-Fi FW version** — The current Wi-Fi firmware version.
 - **Web UI version** — The web user interface version.
 - **Display UI version** — The current user interface version.
 - **PRI version** — The configuration version currently applied to the MiFi 7730L.



The screenshot shows the Verizon Wireless My Jetpack web interface. The top navigation bar includes the Verizon logo, signal strength, Verizon 4G LTE, battery level, and a 'Sign Out' button. The left sidebar contains navigation links: My Jetpack Home, Data Usage, Connected Devices (with a notification badge), Jetpack Settings, Messages, Parental Controls, and About Jetpack (highlighted). The main content area is titled 'About Jetpack' and has tabs for Internet Status, Jetpack Info, Diagnostics, Logs, and Jetpack Support. The 'Jetpack Info' tab is active, displaying the following information:

Manufacturer:	Novatel Wireless, Inc.
Model:	6620L
My Jetpack version:	1.0 (L1.150 M9x25BEN-2.22 1 [2014-06-03 22:59:28])
MiFi OS version:	1.150
Modem FW version:	9x25BEN-2.22 1 [2014-06-03 22:59:28]
Wi-Fi FW version:	3.1.202.3138
Web UI version:	1.150.0000
Display UI version:	1.150.0000
PRI version:	125

Below the table, a disclaimer states: 'MiFi, the MiFi logo, Novatel Wireless and the Novatel Wireless logo are trademarks or registered trademarks of Novatel Wireless, Inc.'

The footer of the page includes the Novatel Wireless logo and the text: 'Copyright ©2014, Novatel Wireless, Inc. All rights reserved. Novatel Wireless, MiFi 6620L and MiFi are either trademarks or registered trademarks of Novatel Wireless, Inc.' The 'MiFi Powered' logo is also present in the bottom right corner.

About MiFi 7730L - Internet Status

Diagnostics

The Diagnostics page shows information about the MiFi 7730L firmware and other system-level information. You can also view the system log. This page is used mostly for troubleshooting and is not required for normal operation. The Diagnostics page contains the following sections:

- **Modem** (See [Modem](#) on page 99.)
- **4G LTE Network** (See [4G LTE Network](#) on page 100.)
- **GSM/UMTS/HSPA Network** (See [4G LTE Network](#) on page 100.)
- **3G Network (eHRPD/EVDO/1xRTT)** (See [GSM/UMTS/HSPA Network](#) on page 100.)
- **Field Test** (See [Field Test](#) on page 102.)

The screenshot displays the Verizon Jetpack web interface. The top navigation bar includes the Verizon logo, signal strength, 'Verizon 4G LTE', and a 'Sign Out' button. The left sidebar contains menu items: My Jetpack Home, Data Usage, Connected Devices (with a notification badge), Jetpack Settings, Messages, Parental Controls, and About Jetpack (highlighted). The main content area is titled 'About Jetpack' and has tabs for Internet Status, Jetpack Info, Diagnostics (selected), Logs, and Jetpack Support. A disclaimer states: 'This detailed information is used only for troubleshooting and technical support.' The Diagnostics section is divided into four network categories:

- Modem**:
 - Phone number (MCN): 000-000-0000
 - IMEI: 000000000000000
 - IMEI-SV: 000000000000000
 - MEID: 000000000000000
 - Firmware: 9x2582N-2.22.1 [2014-06-03 22:58:28]
 - SIM status: Ready
 - ICCID: 0000000000000000
 - MIN (MSISDN): 000000000
 - ESN: 00000000
 - Home SID: 4
 - ERI version: 5
 - PHL version: 1
- 4G LTE Network**:
 - Status: Available
 - Network operator: Verizon
 - Signal strength (RSRP): -66 dBm
 - SNR: 20
 - Band: 4
 - Roaming: None
- GSM/UMTS/HSPA Network**:
 - Status: Not Available
- 3G Network (eHRPD/EVDO/1xRTT)**:
 - Status: Not Available

At the bottom of the Diagnostics section is a 'Field Test' button. The footer of the page includes the Verizon logo, copyright information for 2014, and the MiFi logo.

About MiFi 7730L - Diagnostics

Modem

The Modem section has the following options:

- **Phone number (MDN)** — The Phone Number or Mobile Directory Number (MDN) is used by the mobile data network to identify this particular data service.
- **MEID** — The Mobile Equipment Identifier (MEID) is used by the mobile data network to identify this particular modem.
- **IMEI** — The International Mobile Equipment Identity (IMEI) number for the MiFi 7730L.
- **IMEISV** — The International Mobile Equipment Identity (IMEI) combined with an approval number for the MiFi 7730L.
- **FW version** — The modem firmware version.
- **SIM status** — Status of the SIM card. If the SIM card is missing, or this field indicates some form of SIM error, the MiFi 7730L will not be able to connect to the mobile network.
- **ICCID** — The ID number assigned to the SIM Card.
- **MIN (MSID)** — The Mobile Identification Number (MIN) or Mobile Station ID (MSID) is the number associated with the home service provider and the wireless phone number.
- **ESN** — The Electronic Serial Number, which is either blank or a pseudo-ESN which is not guaranteed to be unique for devices that use an MEID.
- **Home SID** — System identifier for the home network.
- **ERI version** — The Enhanced Roaming Indicator version that is currently installed.
- **PRL version** — The version of the Preferred Roaming List (PRL), which tells the modem which non-home carrier towers should provide roaming coverage.



The screenshot shows the 'About Jetpack' interface with the 'Diagnostics' tab selected. A note indicates that the information is for troubleshooting. The 'Modem' section lists the following details:

Phone number (MDN):	000-000-0000
IMEI:	0000000000000000
IMEISV:	0000000000000000
MEID:	0000000000000000
FW version:	9x25BEN-2.22 1 [2014-06-03 22:59:28]
SIM status:	Ready
ICCID:	00000000000000000000
MIN (MSID):	0000000000
ESN:	000000000
Home SID:	4
ERI version:	5
PRL version:	1

About MiFi 7730L Diagnostics - Modem

4G LTE Network

The 4G LTE Network section has the following options:

- **Status** — Status of the network (Disabled, Not available, or Available).
- **Network operator** — The vendor that currently provides wireless access.
- **Signal strength** — Indicates the signal strength for LTE.
- **SNR** — A measure of signal quality; the higher the number the better the signal.

4G LTE Network	
Status:	Available
Network operator:	Verizon
Signal strength (RSRP):	-86 dBm
SNR:	28
Band:	4
Roaming:	None

About MiFi 7730L Diagnostics - 4G LTE Network

GSM/UMTS/HSPA Network

The GSM/UMTS/HSPA Network section has the following options:

- **Status** — Status of the network (Disabled, Not available, or Available).
- **Network operator** — The vendor that currently provides wireless access.
- **Technology** — The current technology in use for the GSM/WCDMA/HSPA network. Possible values, from slowest to fastest are GPRS, EDGE, UMTS, HSDPA, HSUPA, HSPA+, and HSPA+ DC.
- **PLMN ID** — The name and/or ID of the Public Land Mobile Network.
- **Cell ID** — .The value identifies the cell tower currently in use.
- **RSSI** — Indicates the RSSI for the GSM/UMTS/HSPA signal. RSSI is a measure of signal strength in decibels, relative to one milliwatt.
- **Roaming** — Indicates if the current connection is a roaming connection.

GSM/UMTS/HSPA Network	
Status:	Not Available
Network operator:	
Technology:	
PLMN ID:	
Cell ID:	
RSSI:	
Roaming:	

About MiFi 7730L Diagnostics - GSM/UMTS/HSPA Network

3G Network (eHRPD/EVDO/1xRTT)

The 3G Network (eHRPD/EVDO/1xRTT) section has the following options:

- **Status** — Status of the network (Disabled, Not available, or Available).
- **Network operator** — The vendor that currently provides wireless access.
- **RSSI (1x)** — Indicates the RSSI for the 1xRTT signal.
- **RSSI (EVDO)** — Indicates the signal strength for the EVDO/eHRPD signal.
- **Technology** — The type of technology used to connect to the Internet.
- **Ec/Io** — A measure of how clean the signal is, and is a type of signal-to-noise ratio.
- **SID** — System identifier for the network.
- **Roaming** — Indicates if the current connection is a roaming connection.



About MiFi 7730L Diagnostics - 3G Network

Field Test

Click on **Field Test** to provide a list of low-level network parameters which can be helpful for technical support staff when they troubleshoot network connectivity issues.

```
Diagnosics
=====
Diagnostic Data
=====

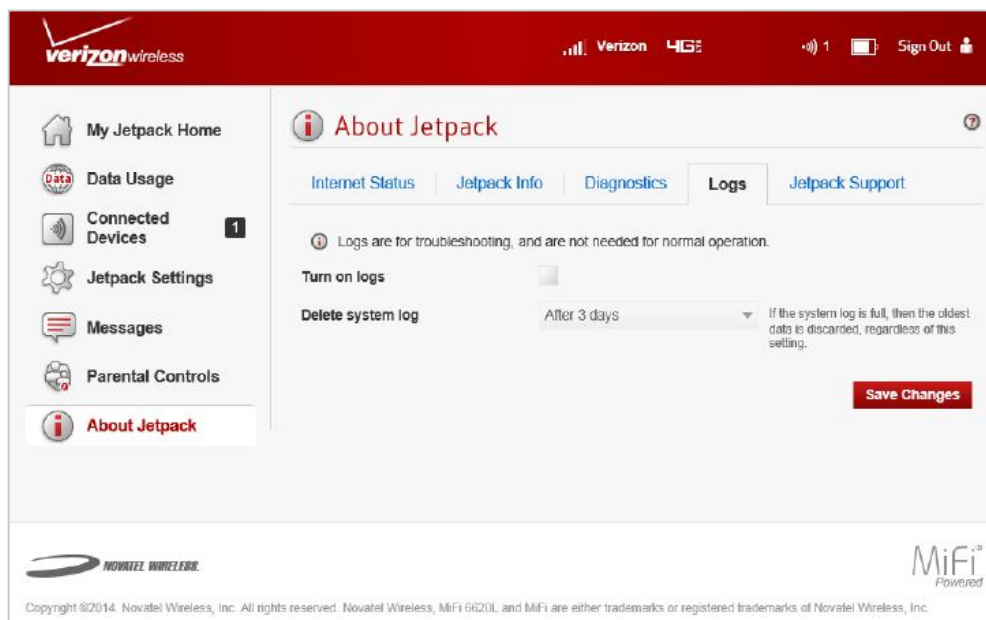
NAM:
Mobile Directory Number (MDN): 8588771678
IMSI_S: 311480058397973
Mobile Network Code (MNC): 480
Mobile Country Code (MCC): 311
Primary CDMA Channel A: 283
Secondary CDMA Channel A: 691
Primary CDMA Channel B: 384
Secondary CDMA Channel B: 777
Access Overload Class (ACCOLC): 9
Register On Home SID: Enabled
Register On Foreign SID: Enabled
Register On Foreign NID: Enabled
MIP Mode: MIP preferred
MIP Registration Retries: 2
MIP Registration Retries Timeout: 3
Reverse Tunneling: 0
DNS Primary: N/A
DNS Secondary: N/A
Supplemental Channel Request Message (SCRM): 1
Network ID (NID): 0
Error Rate: [0]:65535 [1]:65535
RSSI: [0]:66 [1]:125
Ec/Io: [0]:63 [1]:5
latitude: 0
longitude: 0
Tx Power (EVDO): 0
Rx Power 0 (EVDO): 0
Rx Power 1 (EVDO): 0
Packet Zone ID: 0
Call State: Connected
Dormant State: Active
MAC Index: N/A
Subnet Mask: 255.255.255.252
Color Code: 0
UATI024: 00000000 00000000 00000000 00000000
PN Offset: N/A
```

About MiFi 7730L Diagnostics - Field Test

Logs

The Logs page allows you to turn logs ON/OFF, and to delete system logs.

NOTE Logs record various operations and are used for troubleshooting and are not needed for normal MiFi 7730L operation.

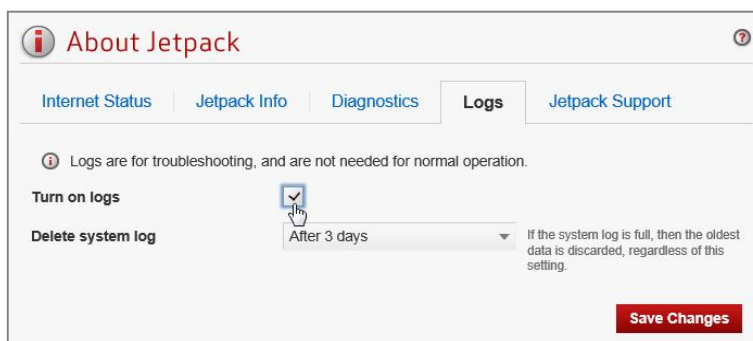


About MiFi 7730L Diagnostics - Field Test

Turn on Logs

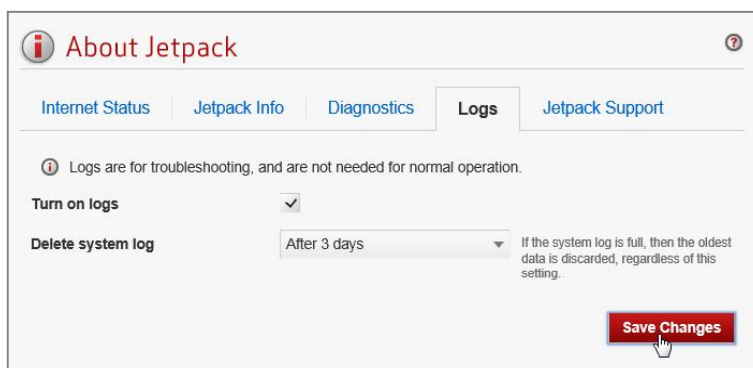
To turn on system logs:

- 1 Select the checkbox next to **Turn on logs**.



About MiFi 7730L Logs - Turn On

- 2 Click **Save Changes**.

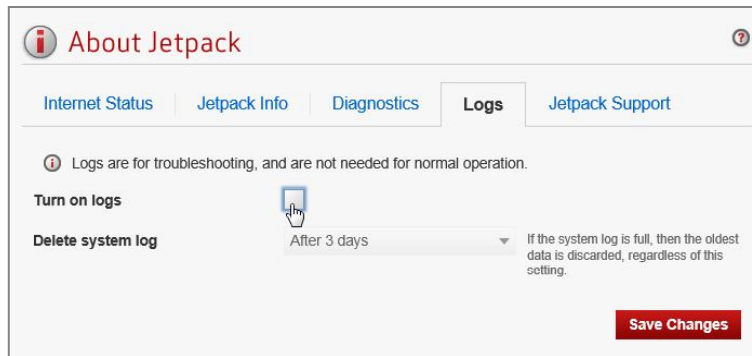


About MiFi 7730L Logs - Save Changes

Turn Off Logs

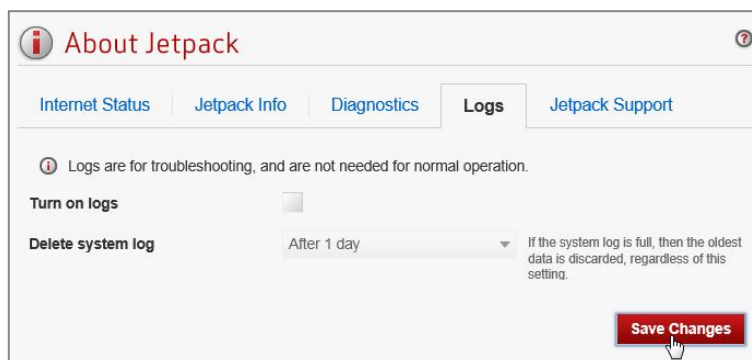
To turn off system logs:

- 1 Deselect the checkbox next to **Turn on logs**.



About MiFi 7730L Logs - Turn Off

- 2 Click **Save Changes**.

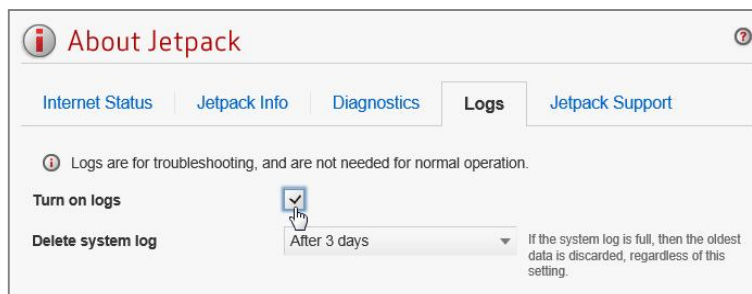


About MiFi 7730L Logs - Save Changes

Delete System Log

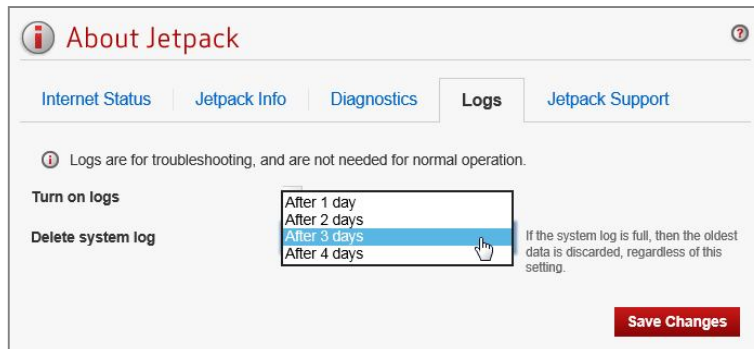
To delete a system log:

- 1 Select the checkbox next to **Turn on logs**.



About MiFi 7730L Logs - Turn On

- 2 Select the appropriate time period for the deletion of system logs from the dropdown menu next to **Delete system log**. The choices are after 1 - 4 days. If the system log is full, then the oldest data is discarded, regardless of this setting.



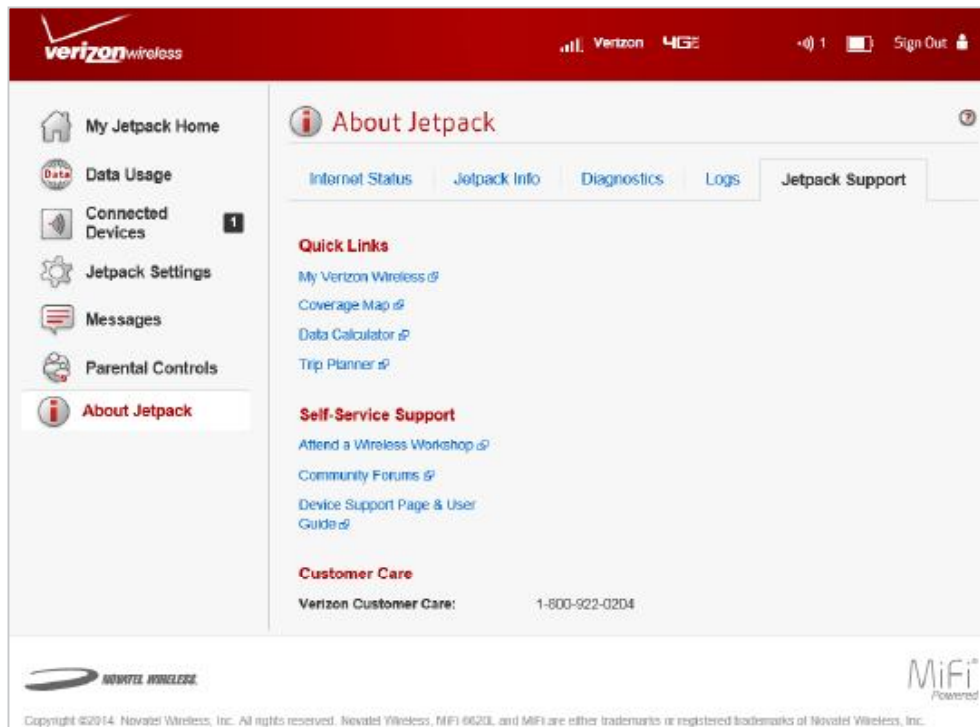
About MiFi 7730L Logs - Set Delete System Log

- 3 Click **Save Changes**.

MiFi 7730L Support

Click on **MiFi 7730L Support** to link directly to the Quick Links, Self Support, and Customer Care sections of the web interface. The MiFi 7730L Support page contains the following sections:

- **Quick Links** (See [My Account & Tools](#) on page 38.)
- **Self-Service Support** (See [Help & Support](#) on page 44.)
- **Customer Care** (To contact Verizon Customer Care, call **(800) 922-0204**.)



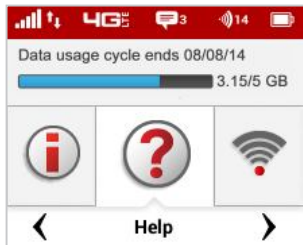
About MiFi 7730L - MiFi 7730L Support

Help displays directions for connecting to the MiFi 7730L Admin website and accessing Advanced Features, WPS, and Unlock SIM. The Tips option provides device usage information.

On the MiFi 7730L Display

To display Help options:

- 1 On the Home screen, navigate to the Help icon and press the select button to open the Help screen options. Help options include **MiFi 7730L Admin website, Advanced Features, Wi-Fi Protected Setup (WPS) Unlock SIM, and Tips.**
- 2 Use the up/down scroll buttons to highlight the desired Help option, then press the select button to display option choices and information.
- 3 Use the down scroll button to highlight Exit or Back, and press the select button to return to the Help options.



Help Option



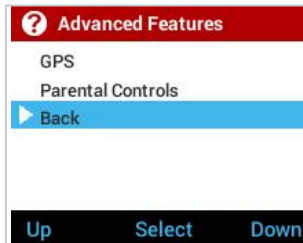
Select MiFi 7730L Admin Website



MiFi 7730L Admin Website Info



Select Advanced Features



Return to Help Options



Select WPS



WPS Info



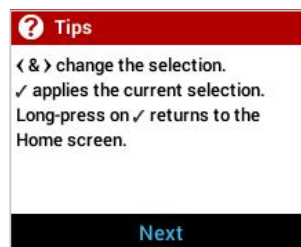
Unlock SIM



Unlock SIM Info



Select TIPS



Tips Info



Return to Home page

- 4 Use the right/down scroll button to highlight Exit and return to the Home screen.

4

Troubleshooting

Overview
Common Problems and Solutions
Technical Support

Overview

When properly installed, the Jetpack is a highly reliable product. Most problems are caused by one of these issues:

- System resources required by the Jetpack are being used by other devices.
- Network coverage is unavailable due to coverage area, an account problem, or a network problem.

The following tips can help solve many common problems encountered while using the Jetpack.

First Steps

- Make sure you are using the Jetpack in the correct geographic region.
- Ensure that your wireless coverage extends to your current location.
- Ensure you have an active subscription plan.
- Restarting your computer and your Jetpack can resolve many issues.

IMPORTANT Before contacting support, be sure to restart both your computer and your MiFi 7730L, and ensure that your SIM card is inserted correctly.

Common Problems and Solutions

The following are some common problems and solutions.

My Jetpack just powered off without my pressing the power button. Why?

This may occur under any of the following circumstances.

- Pressing the Master Reset button
- Jetpack automatically restarting after configuration changes
- Switching profiles
- Restoring the configuration settings
- Battery depletion

To restore battery power, follow these steps.

- ❶ Manually press and hold the power button to turn it back on.
- ❷ If the battery is depleted, charge the Jetpack with the wall charger.



How do I reset the Jetpack back to factory settings?

The master reset button is in a small hole located on the bottom of the Jetpack, underneath the battery cover. This button returns the Jetpack to factory settings, including re-setting the Wi-Fi Name (SSID) and Wi-Fi Password. To reset the Jetpack, follow these steps.

- ❶ Place one end of an unfolded paper clip into the master reset button hole.
- ❷ Press the reset button with the unfolded paper clip until the display shows "MiFi Powering Off" (about five to six seconds), then your Jetpack will restart.

WARNING! The "Reset to Factory Defaults" operation overwrites ALL existing settings. If the Wi-Fi settings change, you will lose this connection, and need to reconnect using the new settings.

How do I reset the Access Point and Router settings back to factory settings?

To reset the access point and router settings, follow these steps.

- 1 Connect to Jetpack Settings by connecting your computer to the MiFi wireless network and going to <http://my.jetpack> or <http://192.168.1.1> in your browser.
- 2 Connect to the Jetpack Backup and Restore page. The Backup and Restore page has a **Restore to Factory Defaults** button. This button resets all Access Point and Router settings to their factory default values. All existing settings are lost. (See Backup and Restore on page 66).

No service is available.

- Reorient your device. If you are inside a building or near a structure that may be blocking the signal, change the position or location of the device. For example, try moving your device close to a window.
- You are outside your coverage area, or there may be a problem with your account. Check with your network operator.

The Jetpack has no power or the device screen does not display when the power button is pressed.

- Make sure the battery is properly seated in the device.
- Make sure the battery is fully charged. Plug in the AC charger for at least 3 hours.

I forgot my Wi-Fi Password.

- Select **Wi-Fi Name/Password** to display your Wi-Fi Name (SSID) and Wi-Fi Password.



I forgot my Jetpack Admin website Password.

- Select **Help > Jetpack Admin website** to display the Jetpack Admin website URL and Admin Password.



I cannot connect to my Jetpack.

- Make sure the Network Signal Strength indicator displays at least one bar and that the type of network is displayed on the device Home page.
- Make sure your Windows Wi-Fi adapter/Mac AirPort is turned on. (Refer to your computer's Help if you need assistance.)

① Open your wireless network connection list:

Windows: Right-click icon and select **View Available Networks**.

Mac: Pull down list from AirPort icon.

② Windows: Click **Connect**.

Mac: Select the network name.

When your device is connected to the network, the Connected Devices icon in the status bar will show a connected device.

I see the network name but cannot connect to my Jetpack.

- Go to **Wi-Fi Name/Password** to check that you are using the correct Wi-Fi password.

How do I disconnect from the network?

From the Jetpack device:

① To disconnect from the Wi-Fi network, select **Settings > Wi-Fi > Turn Off**.

From the Jetpack Admin network:

① Go to <http://my.jetpack> to open the My Jetpack Home page.

② Sign In using your Web Interface password.

③ Click **Sign Out**.

How can I find out how many users are connected to my Jetpack?

From the Jetpack device:

- Check the **Connected Devices** icon in the status panel on the Home page of your Jetpack. The number of connected devices is displayed to the right of the icon.

From the Jetpack Admin website:

- Check the **Connected Devices** icon in the status panel on the My Jetpack Home page of your Jetpack Admin website. The number of connected devices is displayed to the right of the icon. To get detailed information on connected and block devices, click **Connected Devices** on the navigation panel.

How can I get detailed information about the devices that are connected to my Jetpack?

- ❶ Select **Connected Devices > Wi-Fi Devices** to display the type, name, and IP address of each device connected to the Jetpack Network.
- ❷ Select **Connected Devices > USB Tethering** to display the type, name, and IP address of any device connected to the Jetpack via the Universal Charging port.
- ❸ To display more detailed information for connected devices, go to <http://my.jetpack> to open the Home page, then Sign In using your Jetpack Admin Password. Select **Connected Devices** from the Navigation panel to display additional details for all currently connected and blocked devices.

How do I check the firmware version installed on my Jetpack?

- Select **Software Update** to display the current version installed. To check for new update, select **Software Update > Next > Yes**.

How do I check the battery level of my Jetpack?

- Check the battery icon on the status panel on the Home page of the Jetpack device.

How do I turn off my Jetpack?

- Press and hold the Power button until the display shows **MiFi**.

How can I tell that my Jetpack is still on after the device screen goes off?

- When the display is off (sleep mode) and the Jetpack is turned on, the blue Power indicator on the front panel of the Jetpack blinks.



Technical Support

IMPORTANT Before contacting support, be sure to re-start both your computer and the MiFi 7730L.

Technical Support

Contact your service provider for assistance. When calling, you may be asked for the wireless number of your Jetpack. To find your Jetpack's wireless number, go to **About Jetpack > Jetpack Info** on your device, or <http://my.jetpack> on the Web User Interface.

Product Specifications and Regulatory Information

Product Specifications
Regulatory Statements
Wireless Communications
Limited Warranty and Liability
Safety Hazards
Proper Battery Use and Disposal

Product Specifications

General

Name:	Verizon Jetpack® 4G LTE Mobile Hotspot - MiFi® 7730L
Model:	MIFI7730L
Approvals:	FCC (North America)
Weight:	130 g / 4.6 oz
Dimensions:	109 mm x 67 mm x 18 mm, 4.29 in x 2.64 in x 0.71 in
Wireless Network	LTE, CDMA, HSPA+/UMTS, GPRS/EDGE
Wireless Network – Wi-Fi Mode	Real simultaneous Dual Band 802.11 b/g/a/n/ac 2.4 GHz/5.0 GHz
Display	2.4 in color touchscreen LCD
Default SSID	MiFi7730L-XXXX
Battery	
• Size	4400 mAh
• Time required for full charge	3 hours (when not in use)
• Usage	Up to 24 hours
Chip Set:	QUALCOMM® MDM9640
Interface Type:	Type C USB Port for Quick Charge charging port, Internet over USB, content access Type A USB port, used by Universal Charging feature
Memory:	RAM = 128MB, LPDDR FLASH = 256MB, NAND

Technology/Bands

Technology:	LTE, CDMA EV-DO rA, HSPA+/UMTS, GPRS/EDGE
Band Designation:	CAT 9 LTE w/3-Carrier CA
Bands:	LTE US – B2/B4/B5/B13/B66 LTE Global – B3/B4/B7/B20/B28 CDMA 1x/EV-DO rA – BC0/BC1 HSPA+, /UMTS – B1/B2/B5/B8 GPRS/EDGE: B2/B3/B5/B8 sGPS/XTRA capable

Environmental

Operating Temperature:	-10° C to 55° C (x°F to xx° F)
Storage Temperature:	-30° C to 70° C (x° F to xx° F)
Battery Charging	0° C to 40° C (x)
Relative Humidity	The device shall be fully operational up to a maximum of 93% relative humidity (non-condensing).
Drop:	<p>The device accessories (battery and charger) shall withstand drop from 1.5m onto hard surface (stone, concrete, metal) without mechanical, electrical, or functional damage, except for slight scratches or mars.</p> <p>The housing will withstand drop from 1.25m onto hard surface (stone, concrete, metal) without mechanical, electrical, or functional damage, except for slight scratches or mars</p>
Electrostatic Discharge	The device shall be able to withstand the following ESD: 8kV contact / 15kV air discharge.
Vibration Stability:	The device shall be able to withstand the following vibration profile: 10-2000Hz, 1.5G acceleration, 3 axes.

Regulatory Statements

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.

- This device may not cause harmful interference.
- 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 Jetpack MODEM 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, Inc. may void your authority to operate the equipment.

NOTE: The Radio Frequency (RF) emitter installed in your modem must not be located or operated in conjunction with any other antenna or transmitter, unless specifically authorized by Novatel Wireless Technologies.

RF Exposure Content

FCC Equipment Authorization ID: PKRNVWMIFI7730

This device is authorized for use in mobile and portable applications.

This product has been evaluated for SAR and meets the FCC Guidelines for exposure to radio waves.

For better signal reception, coverage range and data throughput, do not place the router near any physical obstruction, including in a pocket or in close proximity of any object. For RF Safety, a mandatory minimum of 10 mm (1 cm) should be maintained between the device and any part of a human body when using the device. Increasing the separation between the device and the body will result in better reception and reduced exposure to radio energy.

Wireless Communications

IMPORTANT Due to the transmission and reception properties of wireless communications, data occasionally can be lost or delayed.

This can be due to the variation in radio signal strength that results from changes in the characteristics of the radio transmission path. Although data loss is rare, the environment where you operate the modem might adversely affect communications.

Variations in radio signal strength are referred to as fading. Fading is caused by several different factors including signal reflection, the ionosphere, and interference from other radio channels.

Novatel Wireless or its partners will not be held responsible for damages of any kind resulting from the delays or errors in data transmitted or received with the Jetpack device, or failure of the MiFi 7730L device to transmit or receive such data.

Limited Warranty and Liability

Novatel Wireless, Inc. warrants for the 12-month period immediately following receipt of the Product by Purchaser that the Product will be free from defects in material and workmanship under normal use. THESE WARRANTIES ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The exclusive remedy for a claim under this warranty shall be limited to the repair or replacement, at Novatel Wireless' option, of defective or non-conforming materials, parts or components. The foregoing warranties do not extend to (I) non conformities, defects or errors in the Products due to accident, abuse, misuse or negligent use of the Products or use in other than a normal and customary manner, environmental conditions not conforming to Novatel Wireless' specification, of failure to follow prescribed installation, operating and maintenance procedures, (II) defects, errors or nonconformities in the Product due to modifications, alterations, additions or changes not made in accordance with Novatel Wireless' specifications or authorized by Novatel Wireless, (III) normal wear and tear, (IV) damage caused by force of nature or act of any third person, (V) shipping damage, (VI) service or repair of Product by the purchaser without prior written consent from Novatel Wireless, (VII) products designated by Novatel Wireless as beta site test samples, experimental, developmental, reproduction, sample, incomplete or out of specification Products, or (VIII) returned products if the original identification marks have been removed or altered.

Safety Hazards

Do not operate the Jetpack in an environment that might be susceptible to radio interference resulting in danger, specifically:

Areas where prohibited by the law

Follow any special rules and regulations and obey all signs and notices. Always turn off the host device when instructed to do so, or when you suspect that it might cause interference or danger.

Where explosive atmospheres might be present

Do not operate your device in any area where a potentially explosive atmosphere might exist. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Be aware and comply with all signs and instructions.

Users are advised not to operate the device while at a refueling point or service station. Users are reminded to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. Potential locations can include gas stations, below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Near medical and life support equipment

Do not operate your device in any area where medical equipment, life support equipment, or near any equipment that might be susceptible to any form of radio interference. In such areas, the host communications device must be turned off. The device can transmit signals that could interfere with this equipment.

On an aircraft, either on the ground or airborne

In addition to FAA requirements, many airline regulations state that you must suspend wireless operations before boarding an airplane. Please ensure that the modem is turned off prior to boarding aircraft in order to comply with these regulations. The modem can transmit signals that could interfere with various onboard systems and controls.

While operating a vehicle

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

Electrostatic discharge (ESD)

Electrical and electronic devices are sensitive to electrostatic discharge (ESD). Macintosh native connection software might attempt to reinitialize the device should a substantial electrostatic discharge reset the device. If the software is not operational after an ESD occurrence, then restart your computer.

Proper Battery Use and Disposal

IMPORTANT In 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 seek medical advice.
 - Seek medical advice immediately if a battery has been swallowed.
 - Communicate the appropriate steps to be taken if a hazard occurs. Due to the transmission and reception properties of wireless communications, data occasionally can be lost or delayed.
-

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 a 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 a metallic or conductive object to contact the battery terminals.
- Replace the battery only with another battery that has been qualified with the system per this standard. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard.
- Promptly dispose of used batteries in accordance with local regulations.
- Battery usage by children should be supervised.
- Avoid dropping the Jetpack or battery. If the Jetpack or the battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- Improper battery use may result in a fire, explosion, or other hazard.

Glossary

Glossary

- **1X** — The core CDMA2000 wireless air interface standard. The designation “1X”, meaning 1 times Radio Transmissio Technology, indicates the same radio frequency (RF) bandwidth as IS-95: a duplex pair of 1.25 MHz channels. The 1X standard supports packet data speeds of up to 153 kbit/s with real world data transmission averaging 80-100 kbit/s in most commercial applications.
- **3G** — Third Generation. 3G refers to the third generation of mobile telephony technology. 3G telecommunication networks support services that provide an information transfer rate of at least 200 kbit/s. However, many services advertised as 3G provide higher speed than the minimum technical requirements for a 3G service. 3G finds application in wireless voice telephony, mobile Internet access, fixed wireless Internet access, video calls and mobile TV.
- **4G LTE** — Fourth Generation Long Term Evolution. LTE is a standard for wireless data communications technology and an evolution of the GSM/UMTS standards. The goal of LTE is to increase the capacity and speed of wireless data networks using new DSP (digital signal processing) techniques and modulations that were developed around the turn of the millenium. A further goal is the redesign and simplification of the network architecture to an IP-based system with significantly reduced transfer latency compared to the 3G architecture. The LTE wireless interface is incompatible with 2G and 3G networks, so that it must be operated on a separate wireless spectrum.
- **802.11 (a, b, g, n)** — A set of WLAN communication standards in the 2.4, 3.6 and 5 GHz frequency bands.
- **bps** — Bits per second. The rate of data flow.
- **Broadband** — High-capacity high-speed transmission channel with a wider bandwidth than conventional modem lines. Broadband channels can carry video, voice, and data simultaneously.
- **CDMA** — Code Division Multiple Access. It is the underlying channel access method used by some mobile phone standards.
- **DHCP** — Dynamic Host Configuration Protocol. Software found in servers and routers that automatically assigns temporary IP addresses to clients logging into an IP network.
- **DHCP Server** — A server or service with a server that assigns IP addresses.
- **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.
- **EV-DO Rev 0** — CDMA EV-DO Rev. 0 is a leading-edge wireless technology with higher data rates and higher system capacity. It is a fully backward compatible standard and remains interoperable with deployed EV-DO networks and devices around the world. Rev 0 provides access to mobile devices with forward link speeds of up to 2.4 Mbit/s, and reverse link speeds up to 152 kbit/s. For more information, visit www.cdg.org.
- **EV-DO Rev A** — CDMA EV-DO Rev. A is a leading-edge wireless technology with higher data rates and higher system capacity. It is a fully backward compatible standard and remains interoperable with deployed EV-DO networks and devices around the world. Rev A provides access to mobile devices with forward link speed of up to 3.1 Mbit/s, and reverse link speeds up to 1.8 Mbit/s. The increased data rates on Rev. A's physical layer enable richer applications and services. For more information, visit www.cdg.org.

- **Firmware** — A computer program embedded in an electronic device. Firmware usually contains operating code for the device.
- **GB** — Gigabyte. A multiple of the unit byte for digital information storage. Usage depends on context. When referring to disk capacities it usually means 10^9 bytes. It also applies to data transmission quantities over telecommunication circuits.
- **Hotspot** — A Wi-Fi (802.11) access point or the area covered by an access point. Used for connecting to the Internet.
- **HTTP** — Hypertext Transfer Protocol. An application-level protocol for accessing the World Wide Web over the Internet.
- **IEEE** — Institute of Electrical and Electronics Engineers. An international technical/professional society that promotes standardization in technical disciplines.
- **IMEI** — International Mobile Equipment Identity. Used in LTE networks to identify the device. It is usually printed on the device and can often be retrieved using a USSD code.
- **IP** — Internet Protocol. The mechanism by which packets are routed between computers on a network.
- **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).
- **ISP** — Internet Service Provider. Also referred to as the service carrier, an ISP provides Internet connection service. (*See* Network Operator)
- **Kbps** — Kilobits per second. The rate of data flow.
- **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. It does not use common carrier circuits though it can have gateways or bridges to other public or private networks.
- **MAC Address** — Media Access Control. A number that uniquely identifies each network hardware device. MAC addresses are 12-digit hexadecimal numbers. This is also known as the physical or hardware address.
- **Mbps** — Megabits per second. The rate of data flow.
- **MSID** — Mobile Station Identifier. A number for a mobile phone that identifies that phone to the network. These numbers are carrier specific.
- **Network Operator** — The vendor who provides your wireless access. Known by different names in different regions, some examples are: wireless provider, network provider, and service provider.
- **Network Technology** — The technology on which a particular network provider's system is built; such as CDMA or EVDO.
- **Port** — A virtual data connection used by programs to exchange data. It is the endpoint in a logical connection. The port is specified by the port number.
- **Port Forwarding** — A process that allows remote devices to connect to a specific computer within a private LAN.

- **Port Number** — A 16-bit number used by the TCP and UDP protocols to direct traffic on a TCP/IP host. Certain port numbers are standard for common applications.
- **PRL** — Preferred Roaming List. A list that your wireless phone or device uses to determine which networks to connect with when you are roaming. (Network operator specific).
- **Protocol** — A standard that enables connection, communication, and data transfer between computing endpoints.
- **Proxy** — A firewall mechanism that replaces the IP address of a host on the internal (protected) network with its own IP address for all traffic passing through it.
- **Router** — A device that directs traffic from one network to another.
- **SIM** — Subscriber Identification Module. Found in LTE and GSM network technology, the SIM is a card containing identification information for the subscriber and their account. The SIM card can be moved to different devices.
- **SSID** — Service Set Identifier. The name assigned to a Wi-Fi network.
- **TCP/IP** — Transmission Control Protocol/Internet Protocol. The set of communications protocols used for the Internet and other similar networks.
- **USB** — Universal Serial Bus. A connection type for computing device peripherals such as a printer, mobile modem, etc. USB connectors may be used for data transfer or charging.
- **USB Port Types** — The USB ports on computers and hubs have a rectangular Type A socket, and peripheral devices have a cable with a Type A plug. Peripherals that do not have an attached cable have a square Type B socket on the device and a separate cable with a Type A and Type B plug. Ports and connectors are available in different sizes (for example, standard, mini, and micro).
- **VPN** — Virtual Private Network. A secure private network that runs over the public Internet. Commonly used to connect to an office network from elsewhere.
- **WCDMA** — Wideband Code Division Multiple Access. An air interface standard found in 3G mobile telecommunications networks. The most-commonly used member of the UMTS family.
- **WWAN** — Wireless 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).
- **Wi-Fi** — Wireless Fidelity. Any system that uses the 802.11 standard developed and released in 1997 by the IEEE.
- **Wi-Fi Client** — A wireless device that connects to the Internet via Wi-Fi.
- **WPA/WPA2** — Wi-Fi Protected Access. A security protocol for wireless 802.11 networks from the Wi-Fi Alliance.