



# GFU19 Multi-Tech CDMA Quick Guide

July, 2005

## GFU19 Multi-Tech CDMA Modem

**This guide describes how to configure your GPS1200 sensor and Multi-Tech CDMA for connection to a network using a Verizon Wireless™ Internet data plan.**

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### *Topics*

- (Over the air) OTA Activation Using Your Internet Data Plan
  - Setting Up the Multi-Tech CDMA Modem
  - Connecting to a Network Using the Multi-Tech CDMA Modem
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- when it has to be **right**

**Leica**  
Geosystems



# GFU19 Multi-Tech CDMA Modem

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# GFU19 Multi-Tech CDMA Modem

## Introduction

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### **About this Quick Guide**

This Quick Guide is designed to provide a step by step guide to configuring the GPS1200 sensor and Multi-Tech CDMA for connection to a network using a Verizon Wireless™ Internet data plan.

This Quick Guide assumes that the user is familiar with general GPS surveying procedures and real time applications.

**Note:** Please setup an Internet Data plan from **Verizon Wireless** and have it activated before using this manual. **Also, be sure to obtain your MIN and MDM number.** If the two numbers are different, please refer to **Appendix 1** for activation.

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### **Firmware Version 2.00**

This Quick Guide has been designed for GPS System 1200 – Firmware Version 2.00 or higher. If using a different firmware version, you may notice slight differences in the menu commands.

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### **User Manuals**

A number of user manuals are available on the GPS System 1200 Software CD. These manuals are provided in Adobe Acrobat format and include Adobe Acrobat Reader. They contain a wealth of information about the GPS1200 System, including system specifications and operation procedures for real time as well as post-processed static, rapid static and kinematic surveys.

More detailed information relative to real time surveying is also available in the following Leica manuals:

**GPS Equipment User Manual** – provides a general system overview and contains information on technical specifications and care and usage of the equipment.

**Getting Started with Real Time Surveys** – contains instructions on equipment setup and procedures specific to real time surveying.

**Technical Reference Manual** – this comprehensive manual provides detailed information on nearly all aspects of the GPS System 1200, including many of the procedures mentioned in this quick guide.

# GFU19 Multi-Tech CDMA Modem

## OTA Activation Using Your Internet Data Plan

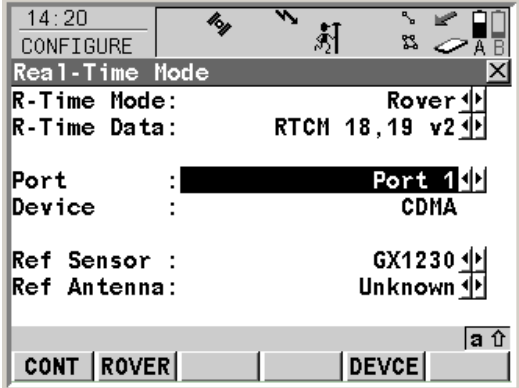
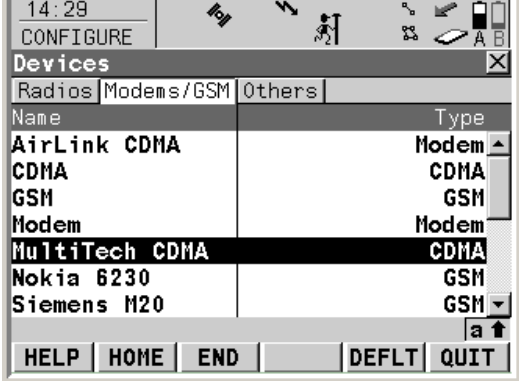
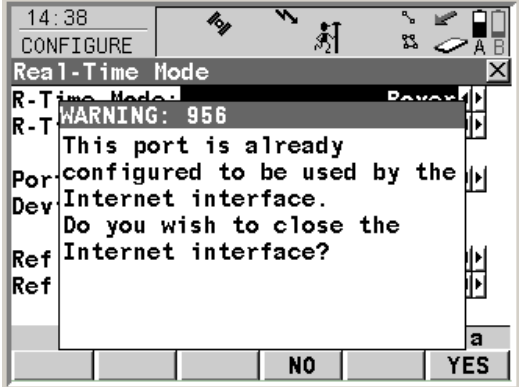
**Activate your Internet plan** Follow the steps below to configure and activate your Verizon Wireless™ Internet plan for use with the GPS1200 sensor and the Multi-Tech CDMA modem.

Step	Action	Display																											
1	<p>Begin with the sensor turned off.</p> <ul style="list-style-type: none"> <li>Attach your CDMA module to <b>Port 1</b> or <b>3</b> on the sensor.</li> <li>Press the <b>ON (PROG)</b> button to turn on the sensor.</li> <li>Select <b>5 Config...</b> from the Main Menu.</li> </ul> <p>This takes you to the GPS1200 Configuration screen</p>																												
2	<p>From the GPS1200 Configuration screen:</p> <ul style="list-style-type: none"> <li>Select <b>4 Interfaces...</b></li> </ul> <p>This takes you to the CONFIGURE Interfaces screen.</p>																												
3	<p>From the CONFIGURE Interfaces screen:</p> <ul style="list-style-type: none"> <li>Highlight <b>Real-Time</b> and press the <b>F3 (EDIT)</b> button.</li> </ul> <p>This takes you to the CONFIGURE Real-Time Interface screen</p>	<table border="1"> <thead> <tr> <th>Interface</th> <th>Port</th> <th>Device</th> </tr> </thead> <tbody> <tr> <td>Real-Time</td> <td>1</td> <td>MultiTech CDMA</td> </tr> <tr> <td>ASCII Input</td> <td>-</td> <td>-</td> </tr> <tr> <td>NMEA Out 1</td> <td>-</td> <td>-</td> </tr> <tr> <td>NMEA Out 2</td> <td>-</td> <td>-</td> </tr> <tr> <td>Export Job</td> <td>-</td> <td>-</td> </tr> <tr> <td>Hidden Pt</td> <td>-</td> <td>-</td> </tr> <tr> <td>Tilt</td> <td>-</td> <td>-</td> </tr> <tr> <td>Meteo</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Interface	Port	Device	Real-Time	1	MultiTech CDMA	ASCII Input	-	-	NMEA Out 1	-	-	NMEA Out 2	-	-	Export Job	-	-	Hidden Pt	-	-	Tilt	-	-	Meteo	-	-
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# GFU19 Multi-Tech CDMA Modem

## OTA Activation Using Your Internet Data Plan

Step	Action	Display
4	<p>From the CONFIGURE Real-Time Mode screen:</p> <ul style="list-style-type: none"> <li>• Ensure that the <b>R-Time Mode</b> and <b>R-Time Data</b> fields are set appropriately.</li> <li>• Select the port to which your modem is attached in the <b>Port</b> field.</li> <li>• Press the <b>F5 (DEVICE)</b> button.</li> </ul> <p>This takes you to the CONFIGURE Devices screen.</p>	
5	<p>From the CONFIGURE Devices screen:</p> <ul style="list-style-type: none"> <li>• Press the <b>F6 (PAGE)</b> button once to access the “Modems/GSM” page.</li> <li>• Highlight the <b>MultiTech CDMA</b> modem and press the <b>SHIFT – F5 (DEFLT)</b> button to ensure that the modem’s default settings are active.</li> <li>• Press the <b>F1 (CONT)</b> button to accept this device configuration and return to the CONFIGURE Interfaces screen.</li> <li>• At this point a “<b>Warning: This port is already configured to be used by the Internet interface. Do you wish to close the Internet interface?</b>” message might appear. If it does, press the <b>F6 (YES)</b> button.</li> </ul> <p>This returns you to the CONFIGURE Interfaces screen.</p>	 

Continued on next page

# GFU19 Multi-Tech CDMA Modem

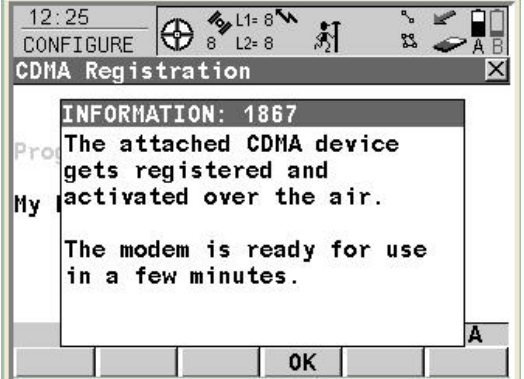
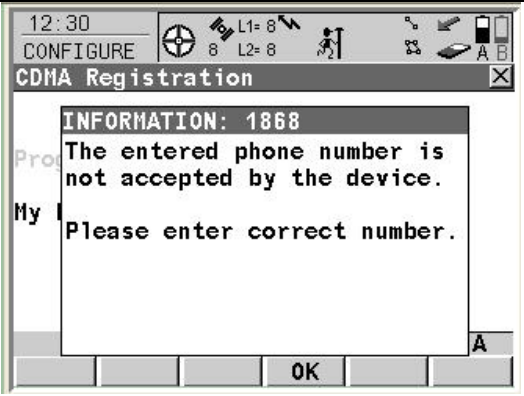
## OTA Activation Using Your Internet Data Plan

Step	Action	Display
6	<p>From the CONFIGURE Interfaces screen:</p> <ul style="list-style-type: none"> <li>Highlight <b>Real-Time</b> and press the <b>F4 (CTRL)</b> button.</li> </ul> <p>This takes you to the CONFIGURE GPRS/Internet Connection screen.</p>	
7	<p>In the CONFIGURE GPRS/Internet Connection screen:</p> <ul style="list-style-type: none"> <li>Press the <b>SHIFT</b> button and the following screen appears.</li> <li>Press the <b>F3 (REG)</b> button</li> </ul> <p>This takes you to the CONFIGURE CDMA Registration screen.</p>	
8	<p>From the CONFIGURE CDMA Registration screen:</p> <ul style="list-style-type: none"> <li>Enter the Verizon number assigned to your modem in the <b>My Phone No</b> field.</li> <li>Press the <b>F1 (CONT)</b> button.</li> </ul> <p>This begins the modem activation process.</p>	

*Continued on next page*

# GFU19 Multi-Tech CDMA Modem

## OTA Activation Using Your Internet Data Plan

Step	Action	Display
9	<p>During the modem activation process:</p> <ul style="list-style-type: none"> <li>Press the <b>F4 (OK)</b> button when the Information box shown on the right appears. The activation might take up to a few minutes. The modem will be ready for use a few minutes after activation.</li> </ul>	
10	<p>If the modem activation process fails:</p> <ul style="list-style-type: none"> <li>Re-enter your phone number and Retry.</li> </ul> <p><b>Note:</b> If modem activation still fails, refer to Appendix 1 for an alternative method of activation.</p>	

# GFU19 Multi-Tech CDMA Modem

## Setting Up the Multi-Tech CDMA Modem

### Set up the Multi-Tech CDMA Modem

Follow the steps below to setup the GPS1200 sensor to use the GFU19 Multi-Tech CDMA modem.

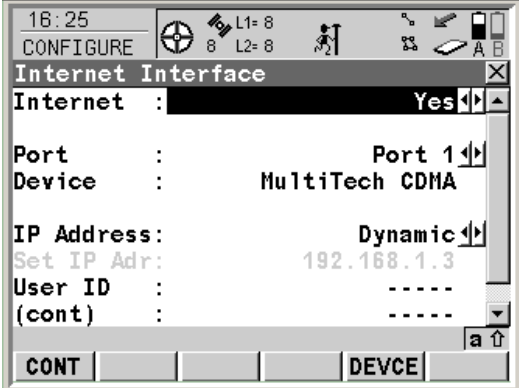
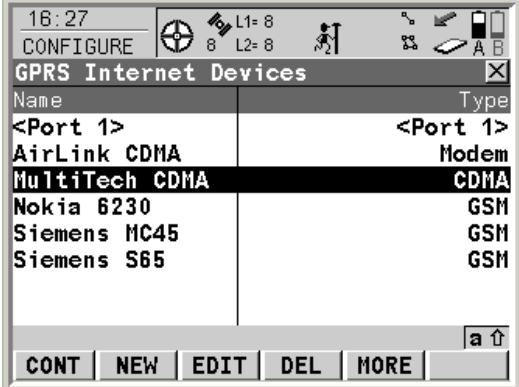
Step	Action	Display																											
1	<p>Begin with the sensor turned off.</p> <ul style="list-style-type: none"> <li>Attach your CDMA module to <b>Port 1</b> or <b>3</b> on the sensor.</li> <li>Press the <b>ON (PROG)</b> button to turn on the sensor.</li> <li>Select <b>5 Config...</b> from the Main Menu.</li> </ul> <p>This takes you to the GPS1200 Configuration screen.</p>																												
2	<p>From the GPS1200 Configuration screen:</p> <ul style="list-style-type: none"> <li>Select <b>4 Interfaces...</b></li> </ul> <p>This takes you to the CONFIGURE Interfaces screen.</p>																												
3	<p>From the CONFIGURE Interfaces screen:</p> <ul style="list-style-type: none"> <li>Highlight <b>Internet</b> and press the <b>F3 (EDIT)</b> button.</li> </ul> <p>This takes you to the CONFIGURE Internet Interface screen.</p>	<table border="1"> <thead> <tr> <th>Interface</th> <th>Port</th> <th>Device</th> </tr> </thead> <tbody> <tr> <td>ASCII Input</td> <td>-</td> <td>-</td> </tr> <tr> <td>NMEA Out 1</td> <td>-</td> <td>-</td> </tr> <tr> <td>NMEA Out 2</td> <td>-</td> <td>-</td> </tr> <tr> <td>Export Job</td> <td>-</td> <td>-</td> </tr> <tr> <td>Hidden Pt</td> <td>-</td> <td>-</td> </tr> <tr> <td>Tilt</td> <td>-</td> <td>-</td> </tr> <tr> <td>Meteo</td> <td>-</td> <td>-</td> </tr> <tr> <td><b>Internet</b></td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Interface	Port	Device	ASCII Input	-	-	NMEA Out 1	-	-	NMEA Out 2	-	-	Export Job	-	-	Hidden Pt	-	-	Tilt	-	-	Meteo	-	-	<b>Internet</b>	-	-
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# GFU19 Multi-Tech CDMA Modem

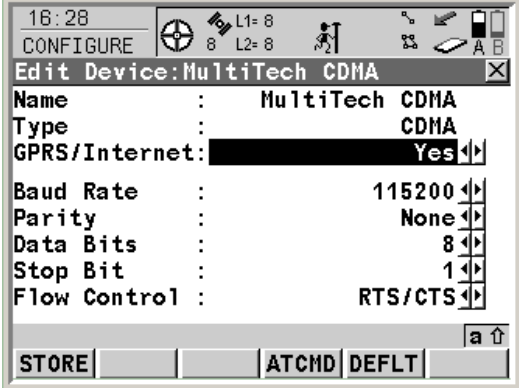
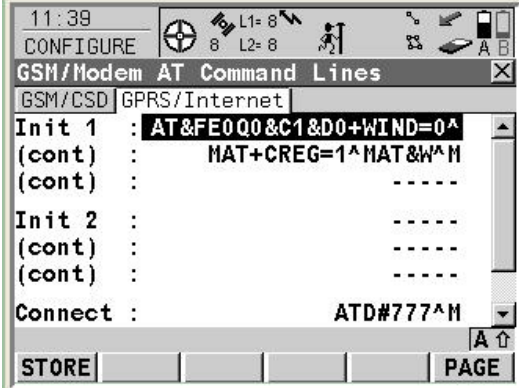
## Setting Up the Multi-Tech CDMA Modem

Step	Action	Display
4	<p>From the CONFIGURE Internet Interface screen:</p> <ul style="list-style-type: none"> <li>Set <b>Internet</b> to <b>Yes</b>.</li> <li>Set the <b>Port</b> to <b>1</b> or <b>3</b> as applicable.</li> <li>Set the <b>IP Address</b> to <b>Dynamic</b> or <b>Static</b>, depending on your plan.</li> </ul> <p><b>Note:</b> If you are using a Static IP Address, be sure to obtain it from Verizon Wireless and enter it in the <b>Set IP Adr</b> field.</p> <ul style="list-style-type: none"> <li>Press the <b>F5 (DEVICE)</b> button.</li> </ul> <p>This takes you to the CONFIGURE GPRS Internet Devices screen.</p>	
5	<p>From the CONFIGURE GPRS Internet Devices screen:</p> <ul style="list-style-type: none"> <li>Highlight <b>MultiTech CDMA</b> and press the <b>F3 (EDIT)</b> button.</li> </ul> <p>This takes you to the CONFIGURE Edit Device: Multitech CDMA screen.</p>	

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# GFU19 Multi-Tech CDMA Modem

## Setting Up the Multi-Tech CDMA Modem

Step	Action	Display												
6	<p>From the CONFIGURE Edit Device: MultiTech CDMA screen:</p> <ul style="list-style-type: none"> <li>Ensure the settings are as shown: <table data-bbox="462 577 836 766"> <tr><td>GPRS/Internet:</td><td><b>Yes</b></td></tr> <tr><td>Baud Rate:</td><td><b>115200</b></td></tr> <tr><td>Parity:</td><td><b>None</b></td></tr> <tr><td>Data Bits:</td><td><b>8</b></td></tr> <tr><td>Stop Bit:</td><td><b>1</b></td></tr> <tr><td>Flow Control:</td><td><b>RTS/CTS</b></td></tr> </table> </li> <li>Press the <b>F4 (ATCMD)</b> button.</li> </ul> <p>This takes you to the CONFIGURE GSM/Modem AT Command Lines screen.</p>	GPRS/Internet:	<b>Yes</b>	Baud Rate:	<b>115200</b>	Parity:	<b>None</b>	Data Bits:	<b>8</b>	Stop Bit:	<b>1</b>	Flow Control:	<b>RTS/CTS</b>	
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Stop Bit:	<b>1</b>													
Flow Control:	<b>RTS/CTS</b>													
7	<p>In the CONFIGURE GSM/Modem AT Command Lines screen:</p> <ul style="list-style-type: none"> <li>Press the <b>F6 (PAGE)</b> button to access the <b>GPRS/Internet</b> tab.</li> <li>Enter the AT commands as shown on the right.</li> </ul> <p><b>Note:</b> These commands are correct for <b>Verizon Wireless</b> modems.</p> <ul style="list-style-type: none"> <li>Press the <b>F1 (STORE)</b> button to save the changes.</li> </ul> <p>This returns you to the CONFIGURE Edit Device: MultiTech CDMA screen.</p>													

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# GFU19 Multi-Tech CDMA Modem

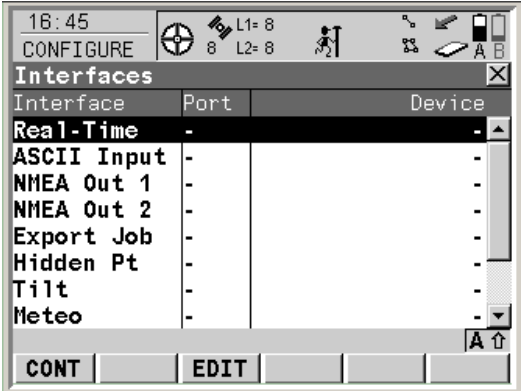
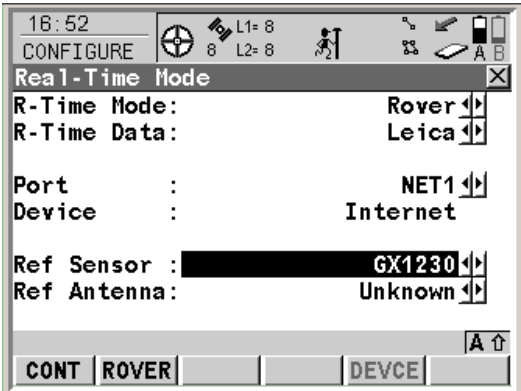
## Setting Up the Multi-Tech CDMA Modem

Step	Action	Display
8	<p>In the CONFIGURE Edit Device: MultiTech CDMA screen:</p> <ul style="list-style-type: none"> <li>Press the <b>F1 (STORE)</b> button to save the changes.</li> </ul> <p>This returns you to the CONFIGURE GPRS Internet Devices screen.</p> <ul style="list-style-type: none"> <li>Highlight <b>MultiTech CDMA</b> and press the <b>F1 (CONT)</b> button.</li> </ul> <p>This returns you to the CONFIGURE Internet Interfaces screen.</p>	
9	<p>In the CONFIGURE Internet Interfaces screen:</p> <ul style="list-style-type: none"> <li>Press the <b>F1 (CONT)</b> button.</li> </ul> <p>This returns you to the CONFIGURE Interfaces screen.</p>	
10	<p>In the CONFIGURE Interfaces screen:</p> <ul style="list-style-type: none"> <li>Press the <b>F1 (CONT)</b> button.</li> </ul> <p>This concludes the Multi-Tech CDMA setup and returns you to the Main Menu.</p>	

# GFU19 Multi-Tech CDMA Modem

## Connecting to a Network Using the Multi-Tech CDMA Modem

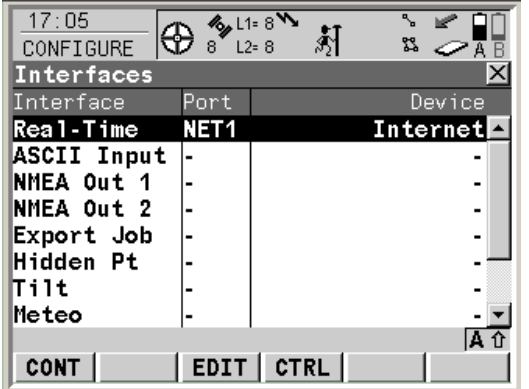
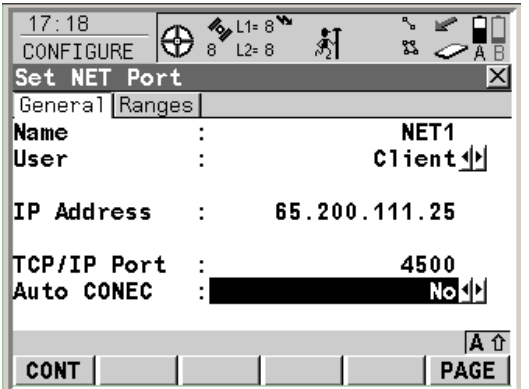

**Connect with the Multi-Tech CDMA modem** Follow the steps below to connect the GPS1200 sensor to a network using the Multi-Tech CDMA modem.

Step	Action	Display
1	<p>Continuing from the previous section:</p> <ul style="list-style-type: none"> <li>In the Main Menu select <b>5 Config...</b></li> <li>In the Configuration Menu select <b>4 Interfaces...</b></li> <li>In the Interfaces Menu highlight <b>Real-Time</b> and press the <b>F3 (EDIT)</b> button.</li> </ul> <p>This takes you to the Real-Time Mode screen.</p>	 <p>The screenshot shows the 'CONFIGURE' screen at 18:45. The 'Interfaces' menu is open, listing various interface options: Real-Time, ASCII Input, NMEA Out 1, NMEA Out 2, Export Job, Hidden Pt, Tilt, and Meteo. 'Real-Time' is highlighted. The 'EDIT' button is visible at the bottom.</p>
2	<p>In the Real-Time Mode screen:</p> <ul style="list-style-type: none"> <li>In the <b>R-Time Mode</b> field, select <b>Rover</b>.</li> <li>In the <b>Port</b> field, select <b>NET1-3</b> to define the port through which you wish to connect.</li> <li>Press the <b>F1 (CONT)</b> button to save your settings.</li> </ul> <p>This returns you to the Interfaces screen.</p>	 <p>The screenshot shows the 'Real-Time Mode' configuration screen at 18:52. Fields include: R-Time Mode (Rover), R-Time Data (Leica), Port (NET1), Device (Internet), Ref Sensor (GX1230), and Ref Antenna (Unknown). The 'CONT' button is highlighted at the bottom.</p>

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# GFU19 Multi-Tech CDMA Modem

## Connecting to a Network Using the Multi-Tech CDMA Modem

Step	Action	Display																											
3	<p>In the Interfaces screen:</p> <ul style="list-style-type: none"> <li>Press the <b>F4 (CTRL)</b> button to set up your IP information.</li> </ul> <p>This takes you to the Set NET Port screen.</p>	 <p>The screenshot shows the 'Interfaces' screen with a table:</p> <table border="1"> <thead> <tr> <th>Interface</th> <th>Port</th> <th>Device</th> </tr> </thead> <tbody> <tr> <td>Real-Time</td> <td>NET1</td> <td>Internet</td> </tr> <tr> <td>ASCII Input</td> <td>-</td> <td>-</td> </tr> <tr> <td>NMEA Out 1</td> <td>-</td> <td>-</td> </tr> <tr> <td>NMEA Out 2</td> <td>-</td> <td>-</td> </tr> <tr> <td>Export Job</td> <td>-</td> <td>-</td> </tr> <tr> <td>Hidden Pt</td> <td>-</td> <td>-</td> </tr> <tr> <td>Tilt</td> <td>-</td> <td>-</td> </tr> <tr> <td>Meteo</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Interface	Port	Device	Real-Time	NET1	Internet	ASCII Input	-	-	NMEA Out 1	-	-	NMEA Out 2	-	-	Export Job	-	-	Hidden Pt	-	-	Tilt	-	-	Meteo	-	-
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4	<p>In the Set NET Port screen:</p> <ul style="list-style-type: none"> <li>In the <b>User</b> field, select <b>Client</b>.</li> <li>Enter the IP address and Port number of the station you are connecting to in the <b>IP Address</b> and <b>TCP/IP Port</b> fields, respectively.</li> </ul> <p><b>Note:</b> Leave the <b>Auto CONEC</b> field set to <b>No</b>, as shown.</p> <ul style="list-style-type: none"> <li>Press the <b>F1 (CONT)</b> button to save your settings.</li> </ul> <p>This returns you to the Interfaces screen.</p>	 <p>The screenshot shows the 'Set NET Port' screen with the following fields:</p> <ul style="list-style-type: none"> <li>Name: NET1</li> <li>User: Client</li> <li>IP Address: 65.200.111.25</li> <li>TCP/IP Port: 4500</li> <li>Auto CONEC: No</li> </ul>																											
5	<p>In the Interfaces screen:</p> <ul style="list-style-type: none"> <li>Press the <b>F1 (CONT)</b> button to return to the Main Menu.</li> <li>In the Main Menu, select <b>1 Survey</b>.</li> </ul> <p>This takes you to the Survey Begin screen.</p>	 <p>The screenshot shows the 'Main Menu' screen with the following options:</p> <ul style="list-style-type: none"> <li>1 Survey</li> <li>2 Programs...</li> <li>3 Manage...</li> <li>4 Convert...</li> <li>5 Config...</li> <li>6 Tools...</li> </ul>																											

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# GFU19 Multi-Tech CDMA Modem

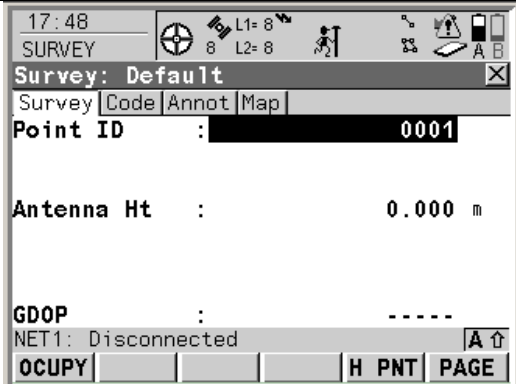
## Connecting to a Network Using the Multi-Tech CDMA Modem

Step	Action	Display
6	<p>In the Survey Begin screen:</p> <ul style="list-style-type: none"> <li>Review the job information and make any changes needed.</li> <li>Press the <b>F1 (CONT)</b> button to begin the survey.</li> </ul> <p>This takes you to the Survey: Default screen.</p>	<p>17:31 SURVEY L1=8 L2=8  <b>Survey Begin</b>  Job : Default  Coord System : WGS 1984  Codelist : &lt;None&gt;  Config Set : RTK Rover  Antenna : AX1202 Pole  CONT CONF CSYS</p>
7	<p>In the Survey: Default screen:</p> <ul style="list-style-type: none"> <li>Press the <b>SHIFT -F3 (CONEC)</b> button to establish a connection with the reference station.</li> </ul>	<p>17:37 SURVEY L1=8 L2=8  <b>Survey: Default</b>  Survey Code Annot Map  Point ID : 0001  Antenna Ht : 0.000 m  GDOP : -----  HELP CONF CONEC INIT INDIV QUIT</p>
8	<p>This will establish a connection with the reference station. You should see the <b>NET1: Successfully connected</b> message at the bottom of the screen</p> <ul style="list-style-type: none"> <li>To disconnect, press the <b>SHIFT - F3 (DISCO)</b> button.</li> </ul>	<p>17:40 SURVEY L1=8 L2=8  <b>Survey: Default</b>  Survey Code Annot Map  Point ID : 0001  Antenna Ht : 0.000 m  GDOP : -----  NET1: Successfully connected  OCUPY H PNT PAGE</p>

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# GFU19 Multi-Tech CDMA Modem

## Connecting to a Network Using the Multi-Tech CDMA Modem

Step	Action	Display
9	<p>This disables the connection with the reference station. You should see the <b>NET1: Disconnected</b> message at the bottom of the screen</p> <p>This concludes the Connecting to a Network Using the Multi-Tech CDMA section.</p>	 <p>The screenshot shows the modem's interface with the following details:         <ul style="list-style-type: none"> <li>Time: 17:48</li> <li>Mode: SURVEY</li> <li>Frequency: L1= 8, L2= 8</li> <li>Survey Name: Survey: Default</li> <li>Point ID: 0001</li> <li>Antenna Height: 0.000 m</li> <li>GDOP: -----</li> <li>Network Status: NET1: Disconnected</li> <li>Buttons: OCUPY, H PNT, PAGE</li> </ul> </p>

# GFU19 Multi-Tech CDMA Modem

## Appendix 1: Alternative Method of Activation

### Alternative method

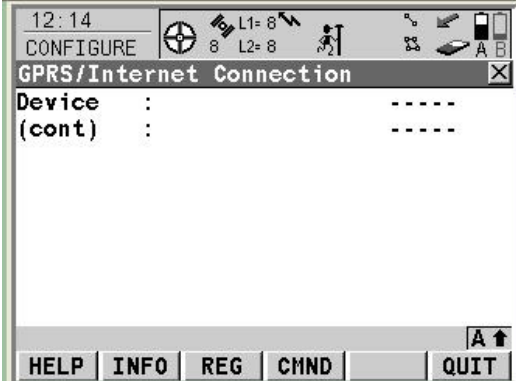
Please verify all of your account information with Verizon Wireless.

Ask for both your **MIN** and **MDM** number, it is possible that they are different.

**MDM Number** - Verizon phone number

**MIN** - Mobile Identification Number

**Note:** If your **MIN** and **MDM** number are different please note the numbers and follow the alternative procedure below.


Step	Action	Display
1	<p>This step continues from Section 1.1, <b>Step 6</b>. Make sure that you have selected the <b>Real-Time</b> interface and not the <b>Internet</b>. From the CONFIGURE GPRS/Internet Connection screen:</p> <ul style="list-style-type: none"><li>• Press the <b>SHIFT</b> button and the following screen appears.</li><li>• Press the <b>F4 (CMND)</b> button.</li></ul> <p>This takes you to the CONFIGURE Send Command to Device screen</p>	 <p>The screenshot shows a mobile device screen with a status bar at the top displaying '12:14', 'CONFIGURE', signal strength, and battery level. Below the status bar is a title bar 'GPRS/Internet Connection' with a close button. The main area contains two lines of text: 'Device : ----' and '(cont) : ----'. At the bottom, there is a navigation bar with buttons for 'HELP', 'INFO', 'REG', 'CMND', and 'QUIT', along with an 'A' button and an arrow icon.</p>

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# GFU19 Multi-Tech CDMA Modem

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Step	Action	Display
2	<p>From the CONFIGURE Send Command to Device screen:</p> <p><b>Activate you MDM number:</b></p> <ul style="list-style-type: none"> <li>• Enter the following commands <b>exactly as shown</b> and press the <b>F3 (SEND)</b> button after each one has been entered. The response should be <b>OK</b> for each entry.</li> <li>• <b>AT+WSPC=1,000000 (INCLUDE COMMA!)</b></li> <li>• <b>AT+WMDN=n</b> Where n is your 10-digit Verizon phone number. This number may extend into the <b>(cont)</b> field.</li> <li>• <b>AT+WCMT=1</b> Wait 10 seconds while the number is stored.</li> </ul> <p><b>Activate you MIN:</b></p> <ul style="list-style-type: none"> <li>• <b>AT+WSPC=1,000000 (INCLUDE COMMA!)</b></li> <li>• <b>AT+WIMI=31000n</b> Where n is your 10-digit Verizon <b>MIN</b>. This number may extend into the <b>(CONT)</b> field.</li> <li>• <b>AT+WCMT=1</b> Wait 10 seconds while the number is stored.</li> <li>• <b>ATD*22899;</b> Starts OTA activation <b>(INCLUDE SEMICOLON!)</b></li> </ul>	

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Step	Action	Display
3	During activation you may see the following messages displayed at the bottom of the screen:  +WOTS: "SPL unlocked"  +WOTP: "PRL download OK"  +WOTM: "MDM download OK"  <b>+WOT2: "Programming Successful"</b>  <b>Your Modem is now ready for use!</b>	