

This document explains how to set up dial up connection for a UMTS/HSPA Data card on Windows XP.

Preparation

Requirements

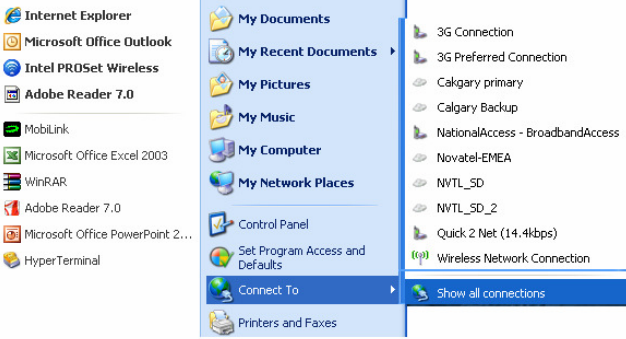
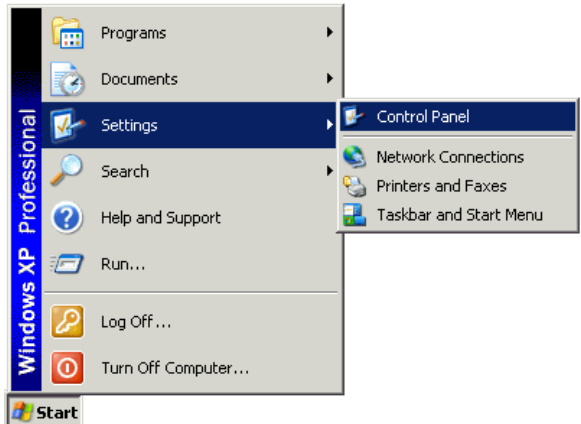
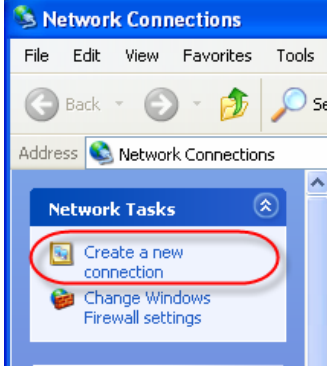
- ✓ Windows 2000/ XP pre-installed on your computer
- ✓ Administrator privileges on the Windows XP machine.
- ✓ Data Card "Modem"
- ✓ Activated SIM Card
- ✓ Network Coverage


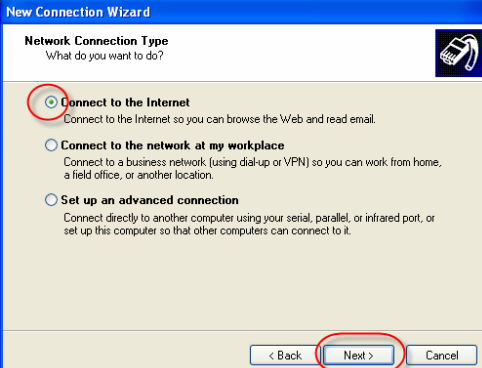
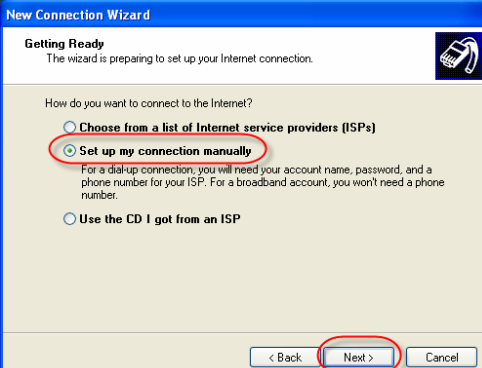
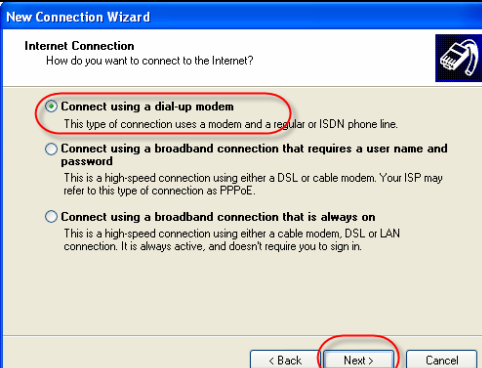
Setup

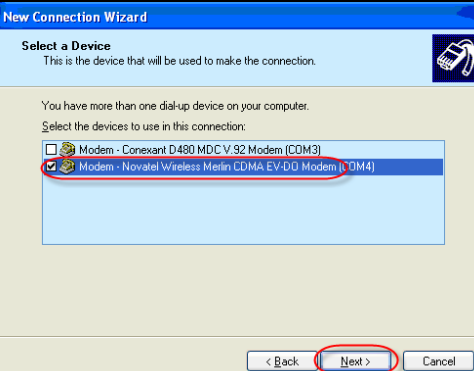
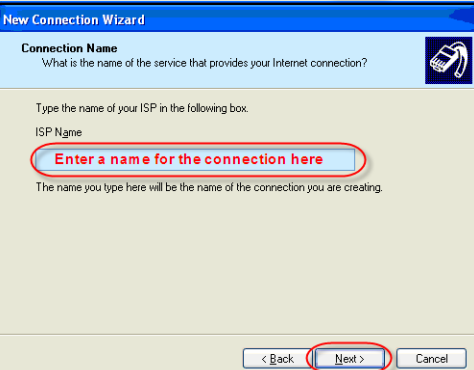
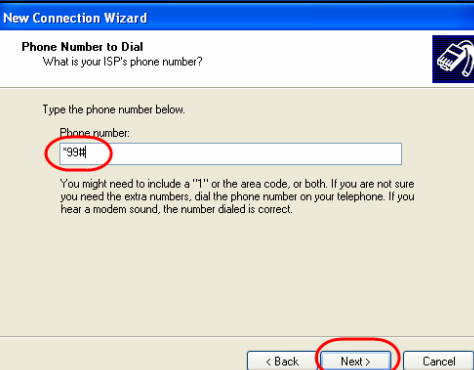

When you have met all these requirements, follow these steps to perform the installation and configuration.

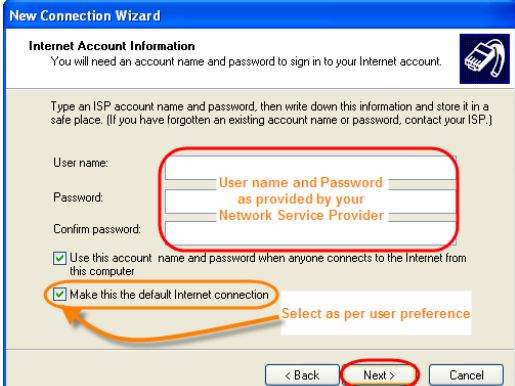
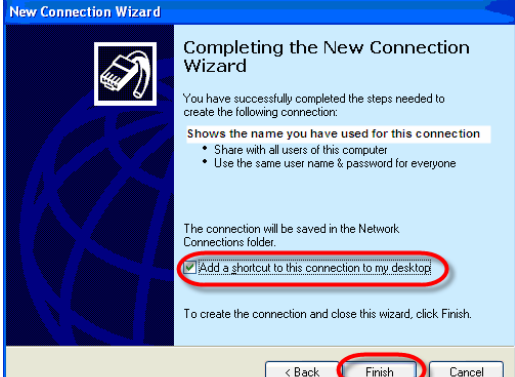
To start the setup there are two options,

- a. Select "Start" -> "connect To" -> "Show all Connections".
- b. Or select "Start" -> "Control Panel" -> "Network Connections"

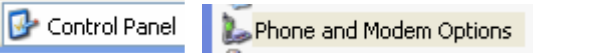
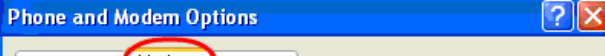
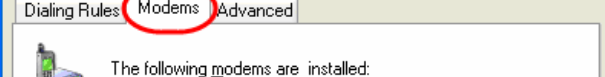
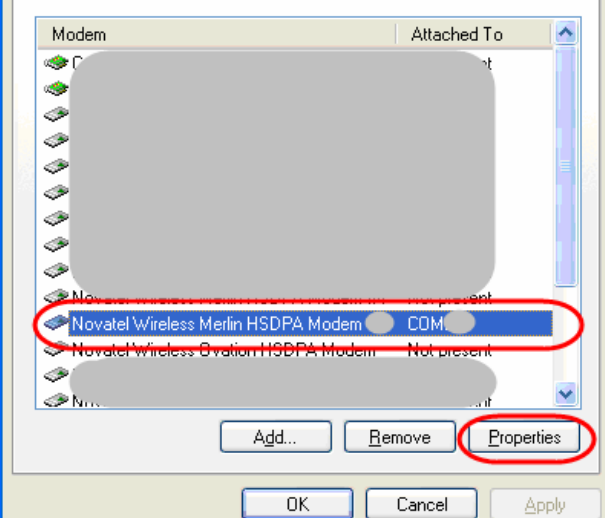
a. Click Start-> Connect to-> Show all Connection	b. Click Start->Settings->Control Panel -> Network Connections
	
<p>Network connections</p> <p>Select "Create a new connection"</p>	

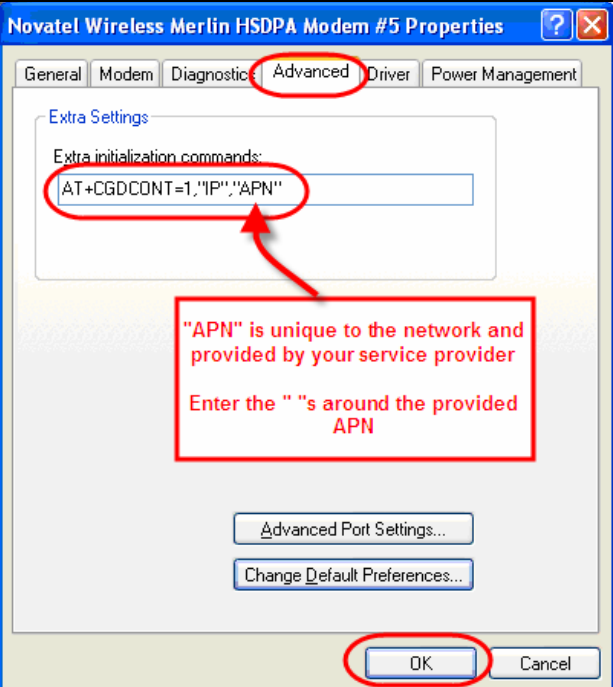
<p>New Connection Wizard</p> <p>- click Next to continue</p>	 <p>The 'Welcome to the New Connection Wizard' screen. It features a blue header with the title 'New Connection Wizard' and a small icon of a modem. The main area has a blue background with a globe. Text includes: 'Welcome to the New Connection Wizard', 'This wizard helps you:', a bulleted list with 'Connect to the Internet' and 'Connect to a private network, such as your workplace network.', a link 'To connect to a wireless network, view wireless network in range.', and 'To continue, click Next.' At the bottom are buttons for '< Back', 'Next >', and 'Cancel'. The 'Next >' button is circled in red.</p>	
<p>Network Connection Type</p> <p>Select 'Connect to the Internet' and click 'Next'.</p>	 <p>The 'Network Connection Type' screen. It has a blue header with the title 'New Connection Wizard' and a sub-header 'Network Connection Type' with the question 'What do you want to do?'. There is a small modem icon. Three radio button options are listed: 'Connect to the Internet' (selected and circled in red), 'Connect to the network at my workplace', and 'Set up an advanced connection'. Each option has a brief description. At the bottom are buttons for '< Back', 'Next >', and 'Cancel'. The 'Next >' button is circled in red.</p>	
<p>Getting Ready</p> <p>Select 'Set up my connection manually' and click 'Next' to continue.</p>	 <p>The 'Getting Ready' screen. It has a blue header with the title 'New Connection Wizard' and a sub-header 'Getting Ready' with the text 'The wizard is preparing to set up your Internet connection.' and a modem icon. The main text asks 'How do you want to connect to the Internet?'. There are three radio button options: 'Choose from a list of Internet service providers (ISPs)', 'Set up my connection manually' (selected and circled in red), and 'Use the CD I got from an ISP'. The 'Set up my connection manually' option has a detailed description. At the bottom are buttons for '< Back', 'Next >', and 'Cancel'. The 'Next >' button is circled in red.</p>	
<p>Internet Connection</p> <p>Select 'Connect using a dial-up modem' and click 'Next' to continue.</p>	 <p>The 'Internet Connection' screen. It has a blue header with the title 'New Connection Wizard' and a sub-header 'Internet Connection' with the question 'How do you want to connect to the Internet?' and a modem icon. There are three radio button options: 'Connect using a dial-up modem' (selected and circled in red), 'Connect using a broadband connection that requires a user name and password', and 'Connect using a broadband connection that is always on'. Each option has a brief description. At the bottom are buttons for '< Back', 'Next >', and 'Cancel'. The 'Next >' button is circled in red.</p>	

<p>Select a Device</p> <p>Check Modem – Novatel Wireless and uncheck all others.</p> <p>(If Modem – Novatel Wireless does not appear, then Novatel device may not have been properly installed – Goto Troubleshooting section of this document)</p> <p>And click 'Next' to continue.</p>		
<p>Connection Name</p> <p>Enter "Network Name" for the ISP Name and click 'Next' to continue.</p> <p>The Network Name that you enter is any name you want to use to identify the connection.</p>		
<p>Phone Number to Dial</p> <p>Enter *99#</p> <p>And click 'Next' to continue.</p>		
<p>Connection Availability</p> <p>- you may select Anyone's use</p> <p>And click 'Next' to continue.</p>		

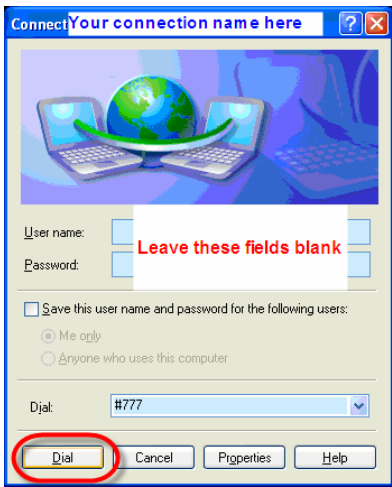
<p>Internet Account Information</p> <p>Enter your user name and password</p> <ul style="list-style-type: none"> - User name and password provided by your network service provider - Depending on your preference, you may choose to check/uncheck the box for Make this the default Internet connection <p>And click 'Next' to continue.</p>	
<p>Completing the New Connection Wizard</p> <p>Click on Add a shortcut to this connection to my desktop</p> <p>And click 'Finish'</p>	

Add APN to modem initialization string.

<p>Control Panel -> Phone and Modem Options</p>	
<p>Select the Modems tab</p>	
<p>Choose the Novatel Wireless Device you are using</p>	
<p>Click Properties</p>	

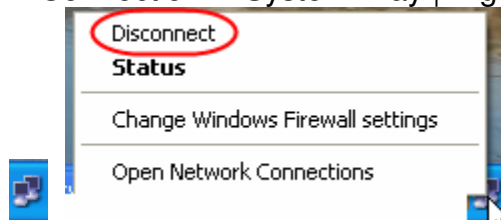
<p>Choose Advanced tab</p> <p>Enter the Extra initialization command string in order to select the APN provided by your wireless network service provider.</p> <p>The format is <code>AT+CGDCONT=1,"IP","APNstring"</code></p> <ul style="list-style-type: none"> - "quotes" are required. - APNstring as per instruction from your service provider <p>Select OK.</p>	
<p>Select OK to close Phone and Modems window</p>	

Connect

<p>If you created a shortcut icon on the desktop.</p>	<p>Select (Double click) the shortcut icon for your connection (the name entered in the wizard) on the desktop.</p> <p>Click 'Dial'</p> 
<p>If you did not create and shortcut icon or it has been deleted.</p>	<p>Go to 'Start' -> 'Connect To' -> 'Show all connections' -> Dial-up section – find your connection name – Right Click – 'Connect'</p>

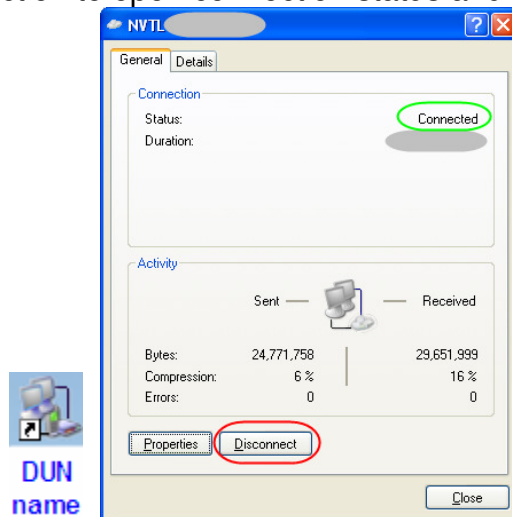
Disconnect

Network Connection in System Tray | Right Click | Disconnect



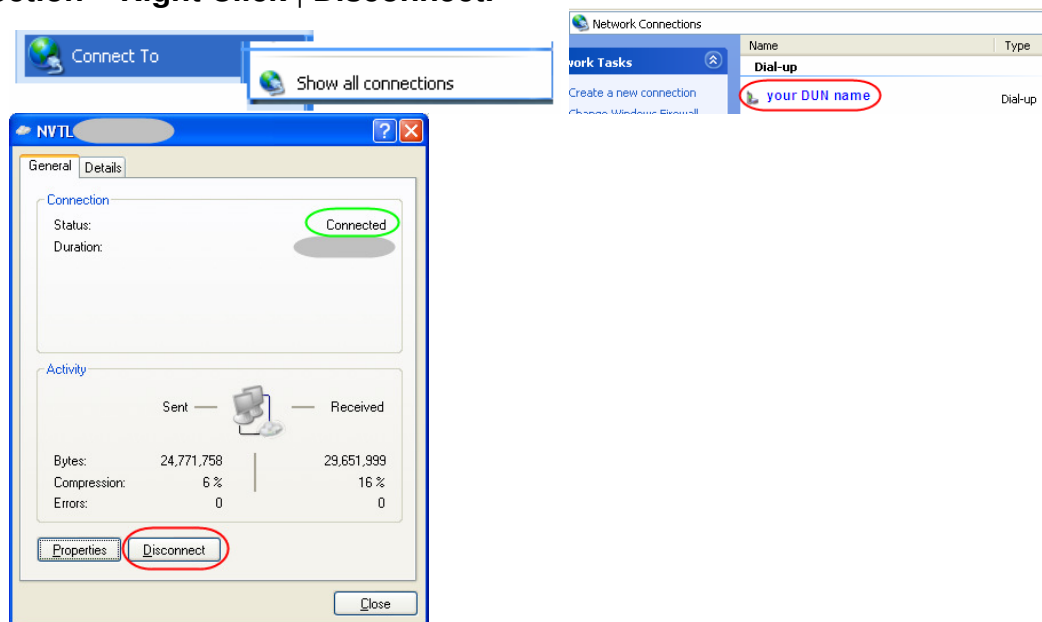
Or

To disconnect, **double click** on the desktop shortcut icon for your dialup connection to open connection status and click on **Disconnect**.








Or

Go to **Start | Connect To | Show all connections | Find Dial-up section, your connection – Right Click | Disconnect**.



Troubleshooting

LED Color		LED State	Description
RED		SIM Error	Flashing: SIM card may be missing or inserted incorrectly.
		No Service	Solid: GPRS/EDGE/UMTS/HSDPA cellular service is currently not available.
GREEN		GPRS	Flashing: GPRS service is available.
			Solid: Connected to a network using GPRS.
VIOLET		EDGE	Flashing: EDGE service is available.
			Solid: Connected to a network using EDGE.
BLUE		UMTS	Flashing: UMTS service is available.
			Solid: * Connected to a network using UMTS.
YELLOW		HSDPA	Solid: * HSDPA service is available and is being used during the download.

Note: 5 LED colors not supported on U630, U530 or U520

If the LED is not lit, then check that the device is connected properly. If physical connection seems good, then check for the device in the device manager.

Device Manager

Verify that your device is found in Device Manager without Red 'X's or Yellow Triangles with '!'. If these conditions show, then there is a driver problem or device conflict

When you insert your Novatel Wireless device into your computer, Windows will double ding and popup messages indicating new hardware found. Please note any error or warning messages that may popup.

To get Hardware Device Manager Information

- Start | Control Panel | System
- Hardware tab
- Select Device Manager



- Click '+' to expand a device type
- Highlight device (left click)
- Right Click – Select Properties (left click)

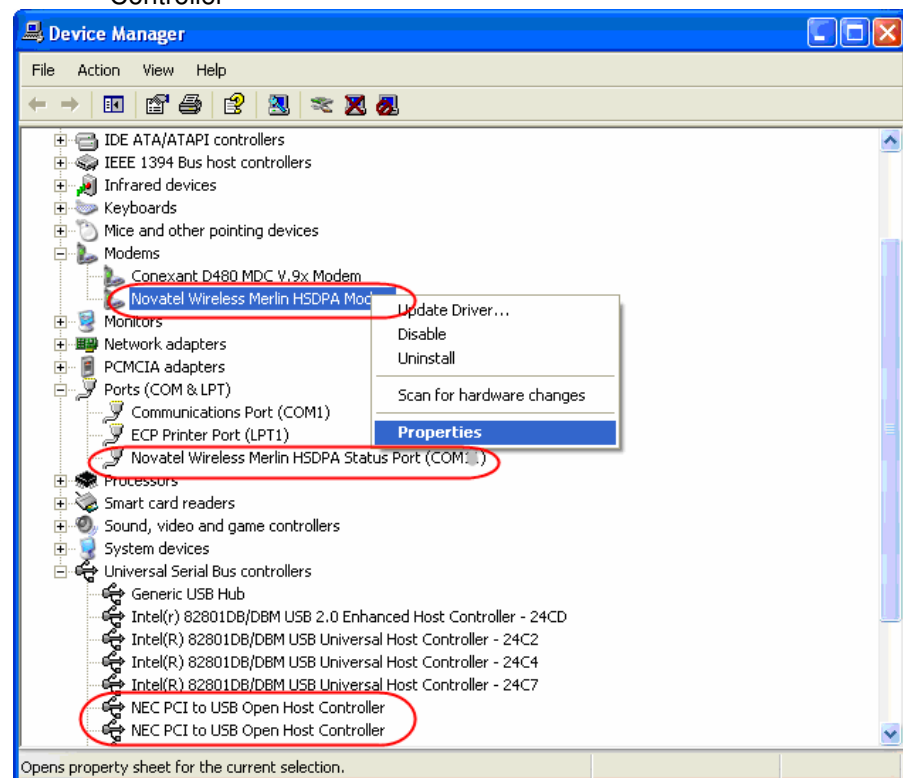
Please check one of the following sections appropriate for your device

PCMCIA Devices

U730, U740
U630
U520, U530

3 Devices **MUST** show

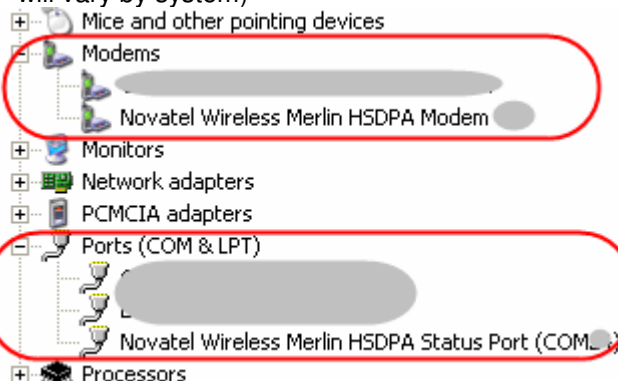
- Modem Section – Novatel Wireless Merlin UMTS or HSDPA Modem
- Ports Section – Novatel Wireless Merlin UMTS or HSDPA Status Port (COM# will vary by system)
- Universal Serial Bus Controller – NEC PCI to USB Open Host Controller



Safely Remove Device Icon will show in System Tray

**ExpressCard
Devices**XU870
X950D**2 Devices Must show**

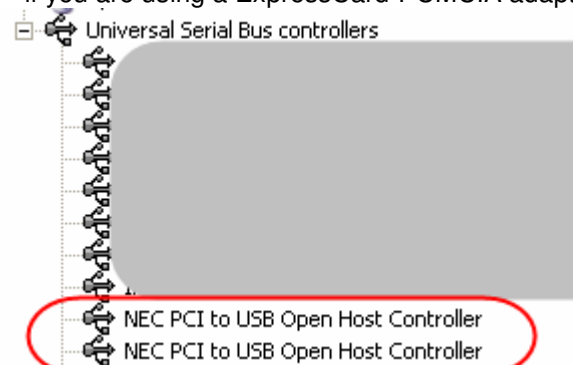
- Modem Section – Novatel Wireless Merlin HSDPA Modem
- Ports Section – Novatel Wireless Merlin HSDPA Status Port (COM# will vary by system)




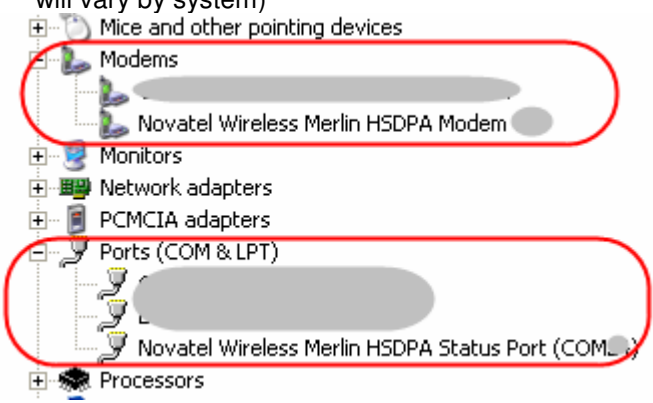
- Depending on the device and options available, other Novatel Wireless Merlin ports may also show.
- The 'Safely Remove Device' icon may not show in system tray – not required for this device

Note

- if you are using a ExpressCard-PCMCIA adapter, you will also see



-  Safely Remove Device Icon will show in System Tray

Ovation USB Devices MC950D MC930D	2 Devices Must show <ul style="list-style-type: none">- Modem Section – Novatel Wireless Merlin HSDPA Modem- Ports Section – Novatel Wireless Merlin HSDPA Status Port (COM# will vary by system)  <ul style="list-style-type: none">- Depending on the device and options available, other Novatel Wireless Merlin ports may also show.- The 'Safely Remove Device' icon may not show in system tray – not required for this device
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If required, drivers are available for download at

www.nvtl.com/releases/NvtlDriver_V2.01.07MSI.zip