## **Preparation**

#### Requirements

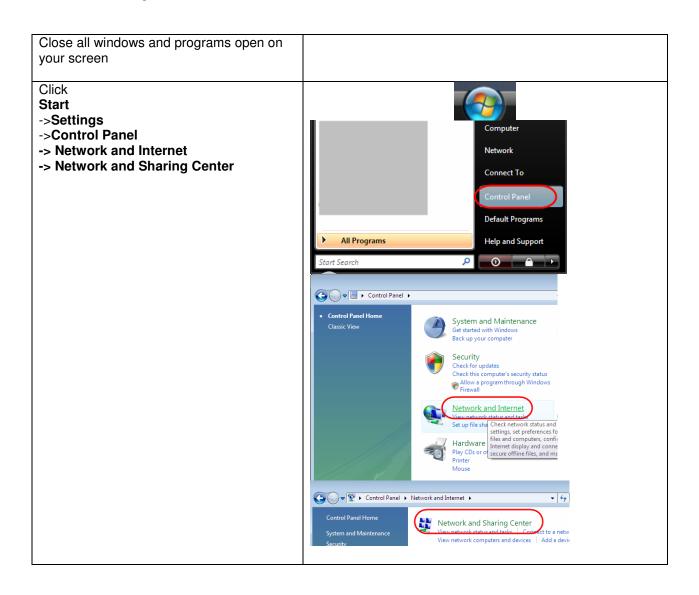
- ✓ Windows Vista pre-installed on your computer
- ✓ Administrator privileges on the Windows Vista machine.
- ✓ Data Card "Modem"

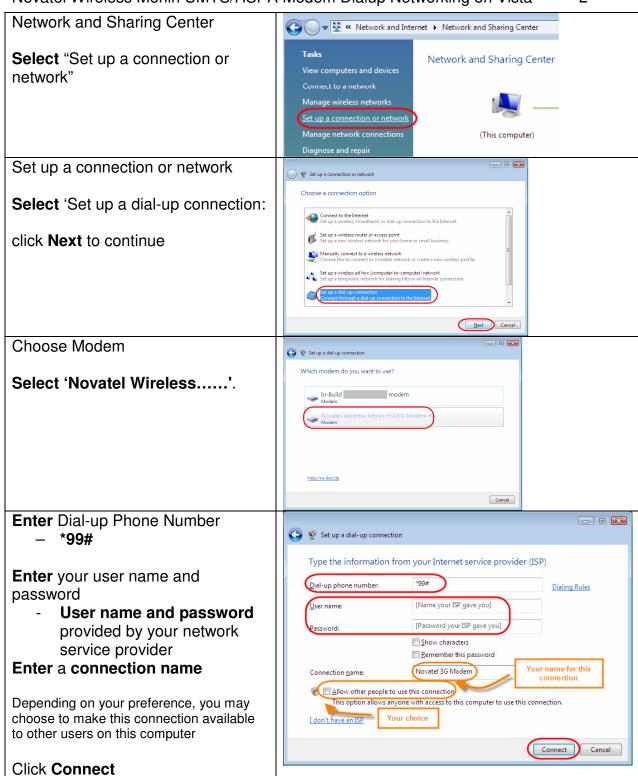
card running Windows Vista.

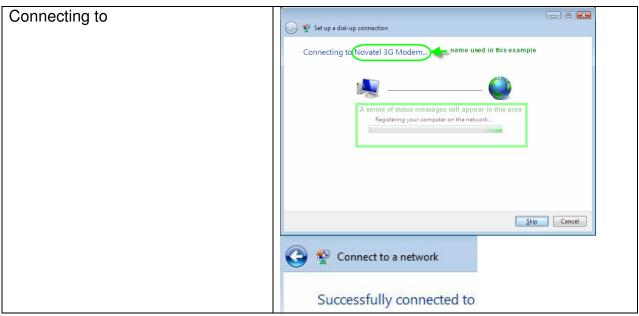
- ✓ Activated SIM Card
- ✓ Network Coverage
- ✓ Network Settings Information for your service provider's network (need APN, user name, password)

## Setup

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

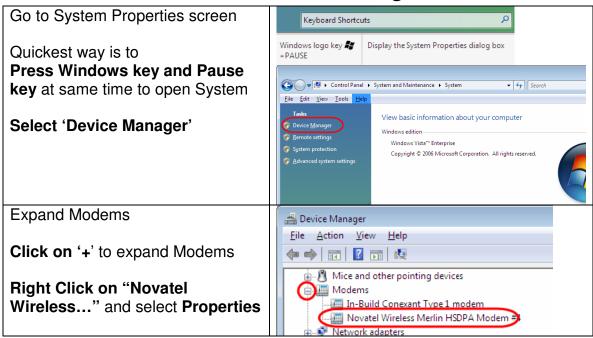


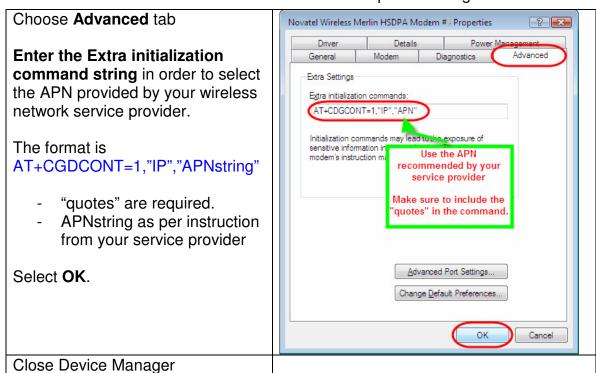




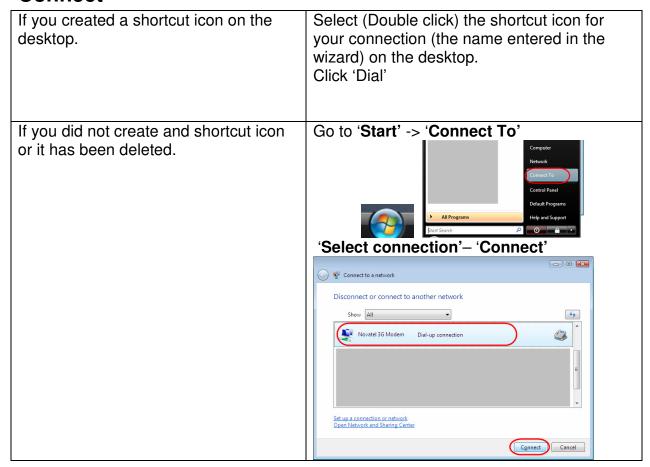
This will allow you to connect to the network. In order to use the internet, you must do one more step.

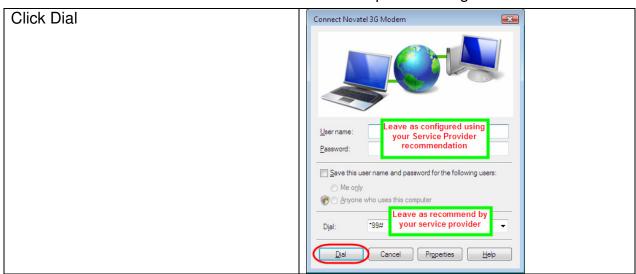
## Add APN to modem initialization string.





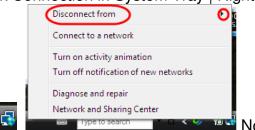
#### Connect





#### **Disconnect**

Network Connection in System Tray | Right Click | Disconnect from



🔤 Novatel Wireless Modem.

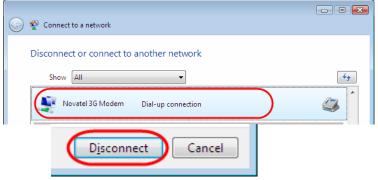
#### Or

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 | Select Device | Disconnect.



## **Troubleshooting**

LED provides good diagnostic information. 8xx and 9xx models

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

## 7xx, 6xx and 5xx models

Cadence (flashing sequence)	LED Display	Merlin State	Cause
(1/4sec) 250ms ON (1/4sec) 250ms OFF	RED	Merlin trying to read SIM	The modem is unable to read the SIM. An error has occurred in the modem firmware.
ON (Not flashing)	RED	Merlin Searching for wireless service	The Merlin is not receiving a signal from the wireless network
(1/4sec) 250ms ON (1 3/4sec) 1750ms OFF	BLUE	Your Merlin is currently receiving a UMTS circuit switched (CS) signal from the network and has registered on the circuit switched (CS) domain	
(1/4sec) 250ms ON (1/4sec) 250ms OFF (1/4sec) 250ms ON (1 3/4sec) 1750ms OFF	BLUE	Your Merlin is currently receiving a UMTS packet switched (PS) signal from the network and has registered on the packet switched (PS) domain (also CS i.e PS or PS+CS)	
ON (Not flashing)	BLUE	Your Merlin is currently PDP context activated on the UMTS system.	
(1/4sec) 250ms ON (1 3/4sec) 1750ms OFF	GREEN	Your Merlin is currently receiving a GSM circuit switched (CS) signal from the network and has registered on the GSM circuit switched (CS) domain	
(1/4sec) 250ms ON (1/4sec) 250ms OFF (1/4sec) 250ms ON (1 3/4sec) 1750ms OFF	GREEN	Your Merlin is currently receiving a GSM/GPRS packet switched (PS) signal from the network and has registered on the GSM/GPRS packet switched (PS) domain. (also CS i.e PS or CS)	
ON (Not flashing)	GREEN	Your Merlin is currently PDP (Packet Data Protocol) context activated on the GSM/GPRS system	

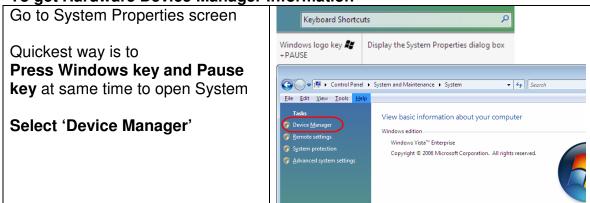
If the LED is not lit, then check that the device is connected properly. If physical connection seems good, then check for the device in the device manager.

### 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

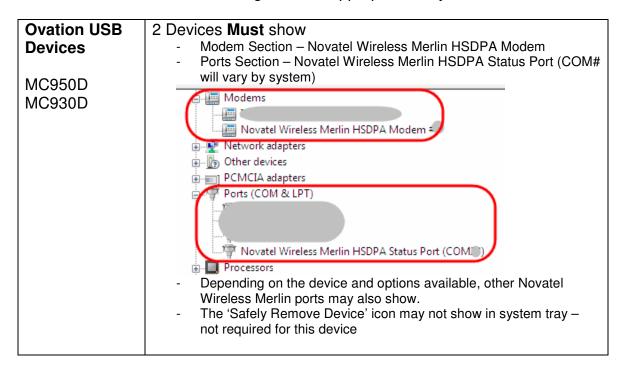
When you insert your Novatel Wireless device into your computer, Windows will double ding and popup messages indicating new hardware found. Please note any error or warning messages that may popup.

To get Hardware Device Manager Information



- 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

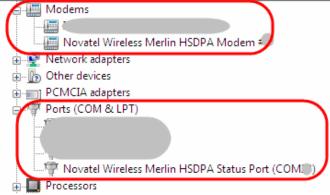


# ExpressCard Devices

XU870 X950D

#### 2 Devices **Must** show

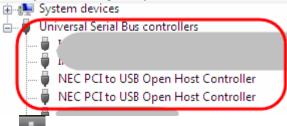
- Modem Section Novatel Wireless Merlin HSDPA Modem
- Ports Section Novatel Wireless Merlin HSDPA Status Port (COM# will vary by system)



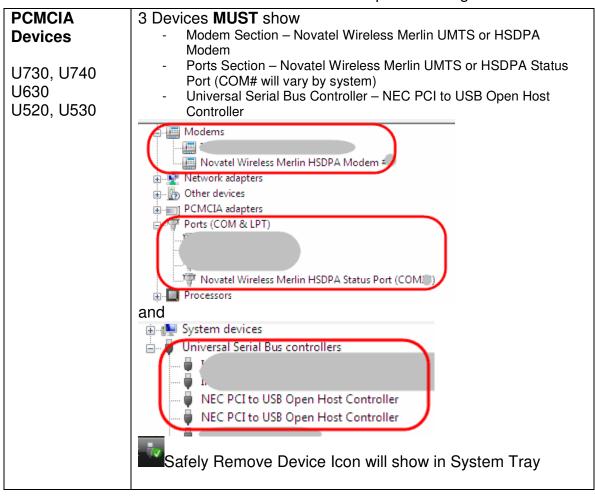
- Depending on the device and options available, other Novatel Wireless Merlin ports may also show.
- The 'Safely Remove Device' icon may not show in system tray not required for this device

#### Note

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



- Safely Remove Device Icon will show in System Tray

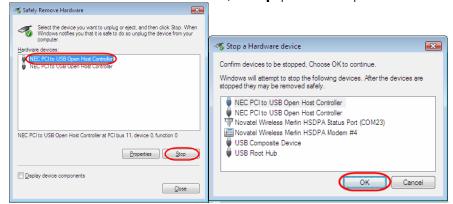


To remove PCMCIA modems or Expresscard modems using a PCMCIA adapter without shutting down the computer

Right click on the safely remove icon is system tray



- Click on "NEC PCI to USB....", Stop | click OK | click Close.



If required, drivers are available for download at www.nvtl.com/releases/NvtlDriver V2.01.07MSl.zip