OREGON SYSTEMS

JPRO® DLA+ ADAPTER FAMILY

User's Manual

JPRO® DLA+ Adapter Family

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The JPRO® DLA+ Wireless adapter is compliant with Part 15 of the FCC Rules. The device contains an RF transmitter (ID 3867A MTCHDRCT). THE FCC ID is R68 MTCHDRCT.

www.noregon.com

www.JPROFleetProducts.com

Table of Contents

Introduction

The JPRO® DLA+ Adapter Family

The JPRO® DLA+ Adapter Family (JPRO® DLA+, JPRO® DLA+ PLC & JPRO® DLA+ Wireless Adapters) are diagnostic devices that communicate with vehicle data for display on a PC-based diagnostic software application.

DLA+

DLA+ PLC

DLA+ Wireless

	DLA+	DLA+ PLC	DLA+ Wireless
J1708	X	X	X
Dual CAN/J1939	X	X	X
CAN 500 (Channel 2)	X	X	X
J2497 / PLC4Trucks		X	
USB Connectivity	X	X	X
Wireless Connectivity (802.11 b/g)			X
Firmware updates (via USB)	X	X	X
Power (from Vehicle)	X	X	X
Power (from USB)			X

JPRO® Interface Adapter Kits

Each adapter kit includes the following items:

DLA+ Kit

DLA+ PLC Trailer Brake Kit

DLA+ PLC Kit

DLA+ Wireless Kit

Part Number	12206	12204	12211	12208
JPRO® Adapter	DLA+	DLA+ PLC	DLA+ PLC	DLA+ Wireless
6 and 9-Pin "Dual CAN" Y-Cable	X	X	X	X
USB Cable	X	X	X	X
Quick Start Guide	X	X	X	X
User's Manual	X	X	X	X
Installation CD	X	X	X	X
PLC J560 cable with "T" connector		X		
Ruggedized carrying case	X	X	X	X

NOTE: Instructional materials are also found on the installation CD or on the "Support" and "Downloads" sections of the www.JPROFleetProducts.com website.

LED Indicators

JPRO® DLA+ Adapter Family of products will support different LED indicators. The following table defines the LEDs and meaning per adapter:

JPRO® Adapter	Green LED (Power)	Red LED (Data)	Red LED (ABS LAMP)	Red LED (Wireless)
 DLA+	X	X	N/A	N/A
 DLA+ PLC	X	X	X	N/A
 DLA+ Wireless	X	X	N/A	X

POWER (**green**) LED:

1. Off when no power is applied.
2. Illuminates green when vehicle is the single power source.

DATA (**red**) LED:

1. Flashes steady red when the device detects traffic regardless of protocol.
2. Flashes red once per second to indicate USB is the single power source and no other activity on the device is present (DLA+ Wireless only).

ABS Lamp (**red**) LED:

1. In Connected mode, the device acts exactly like the tractor ABS light and will follow the SAE J2497 standard.
2. In Standalone mode, the device only listens on the PLC link and emulates a tractor.
    a. The device will blink the “DATA” LED for any traffic on the PLC link and the “ABS Lamp” LED will light in accordance with J2497.
    b. This allows a technician to ensure that the trailer ABS is transmitting PLC messages, and to determine if there is a fault that would cause the tractor ABS lamp to light.

WIRELESS (**red**) LED:

1. Indicates wireless network (802.11) communication.

Product Specifications and System Requirements

DLA+

DLA+ PLC

DLA+ Wireless

32-Bit Operating System Requirements			
Windows 2000 (current service pack)	X	X	X
Windows XP (current service pack)	X	X	X
Windows Vista Business (current service pack)	X	X	X
Windows 7 Pro (current service pack)	X	X	X
32-bit Minimum PC Requirements			
Pentium IV or faster	X	X	X
1 GB RAM	X	X	X
100 MB free hard disk space	X	X	X
1 free USB 2.0 port	X	X	X
Wireless PC card required			X

Supply Voltage

The following table specifies the voltage range required by the JPRO® DLA+ Adapters.

Vehicle Input Voltage Range	9-36 VDC
-- Nominal Voltage	13.5 VDC
-- Low Voltage	9 VDC
USB Voltage Range	5.0 VDC
High Voltage 36VDC	18 VDC for 1 hour 24 VDC for 5 minutes
Current Consumption	Vehicle Power: No more than 500 mA at 9 VDC USB Power (Wireless): No more than 500mA

Temperature

The JPRO® DLA+ adapters shall operate over the following temperatures and meet all of its functional and performance specifications.

Storage Range	-40° to 176° F	(-40° to 80° C)
Operating Range	0° to 149° F	(-18° to 65° C)

Electromagnetic Compatibility

The JPRO® DLA+ Wireless Adapters comply with FCC Part 15 technical standards with regard to electromagnetic radiation.

Transient Protections

The JPRO® DLA+ Wireless Adapters are designed to meet SAEJ1455 requirements for 12-volt systems.

Electro-Static Discharge Protection

The JPRO® DLA+ Wireless Adapters are designed to meet SAEJ1455 for 12-volt systems.

NOTE: Check the www.JPROFleetProducts.com website for the very latest product specifications and system requirements.

Installation

NOTE: The install program requires that the PC user has administration privileges.

Insert the JPRO® DLA+ Driver CD or the JPRO® Fleet Service Software Bundle CD into your CD or DVD drive or download the latest adapter drivers from www.JPROFleetProducts.com.

NOTE: Driver installation screens may differ slightly from those shown below depending on the adapter driver being installed.

If using the supplied CD, the installation program will begin automatically. Click the Install Adapter Drivers button to begin.

If using drivers downloaded from the website, begin the installation process by running the downloaded file.

Driver Installation

NOTE: The latest drivers are available from www.JPROFleetProducts.com. Periodically check for updates.

1. If the install program does not start automatically, start the program by running Setup.exe

2. Click the ***Next*** button.

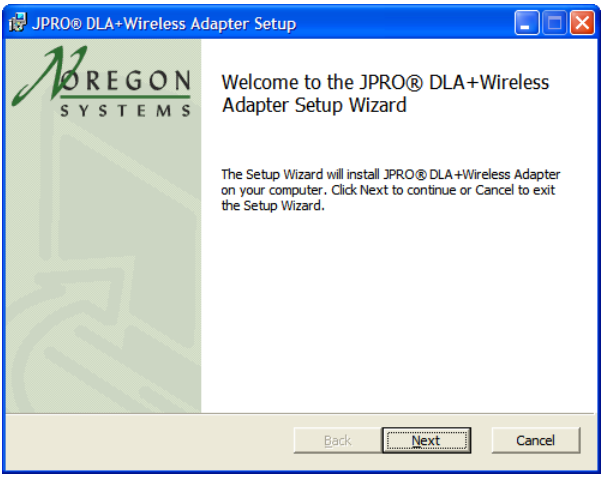


Figure 1

3. Click the check box to accept the License Agreement and click the ***Next*** button.

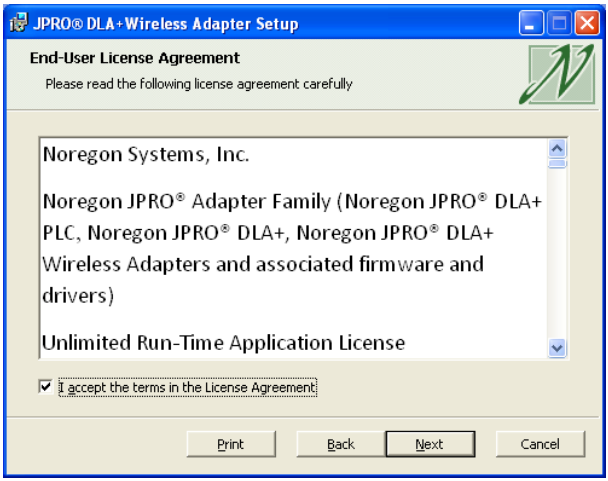


Figure 2

4. Click the ***Next*** button.

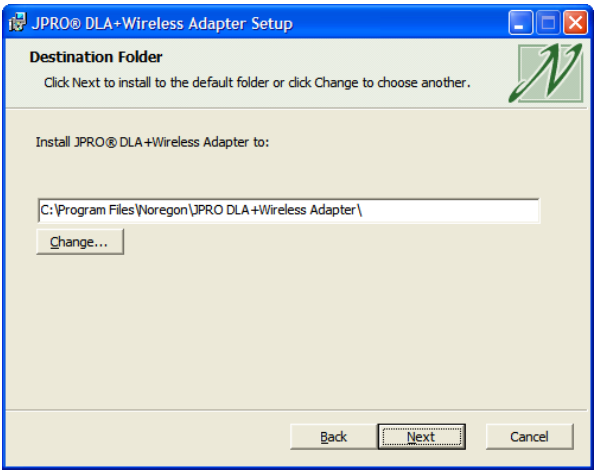


Figure 3

5. Click the ***Install*** button.

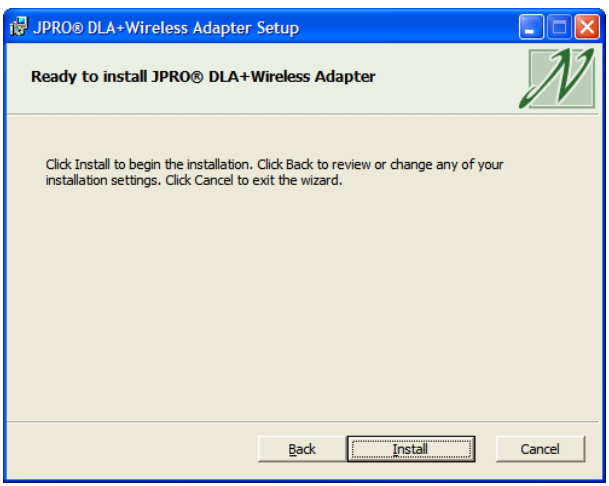


Figure 4

6. The installation procedure will continue.

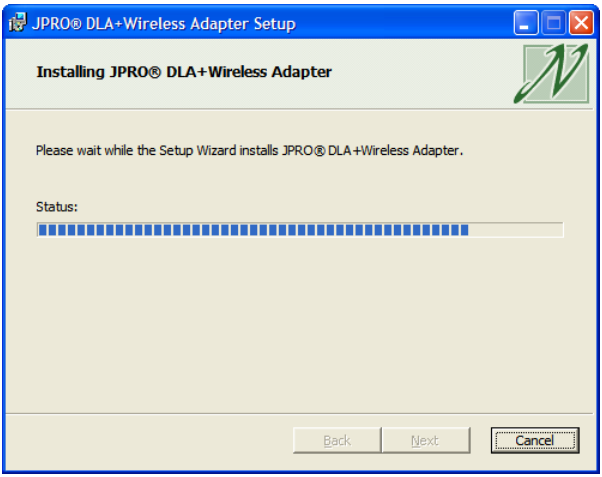


Figure 5

7. Click the checkbox for the **View the readme.txt** and then click the ***Finish*** button.

Figure 6

Found New Hardware Wizard

NOTE: If the Found New Hardware Wizard fails to start, be sure that the USB cable is pushed completely into the adapter's USB port.

NOTE: The Found New Hardware Wizard is not used if the installation is being performed in Windows Vista or Windows 7.

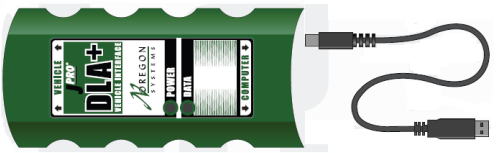
NOTE: Adapter is powered by the vehicle (DLA+ and DLA+PLC only).

1. Close all other running applications.
2. Connect the diagnostic cable to the Vehicle port on the adapter.

3. Attach the opposite end of the diagnostic cable connector to the diagnostic port on the vehicle.

4. Plug the USB cable into the USB port on the PC.

5. Connect the other end of the USB cable to the port labeled Computer on the adapter.



Windows displays the Found New Hardware Wizard.

NOTE:

- ***Windows XP and 2000 users:***
  The Found New Hardware Wizard will run automatically.
  If the Found New Hardware Wizard does not appear, then go to Start >> Control Panel >> Add Hardware
- ***Windows Vista and Windows 7 users:***
  The Found New Hardware Wizard will not appear

6. If asked to connect to Windows Update, select ***No, not this time*** and click the ***Next*** button.

Figure 7

7. Select ***Install the software automatically*** and click the ***Next*** button and Windows will install the driver.

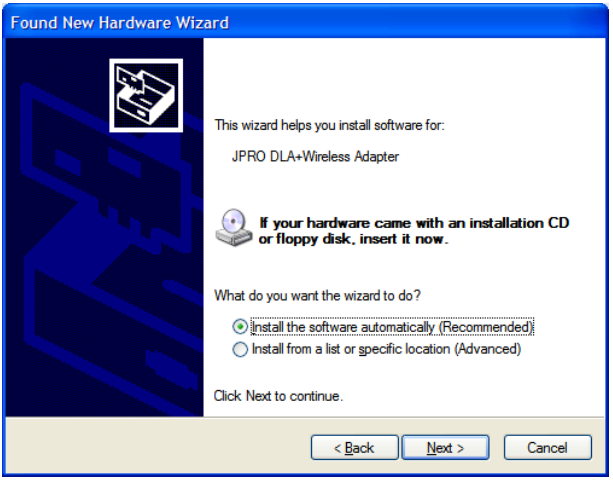


Figure 8

The install will display the following screen (or similar).

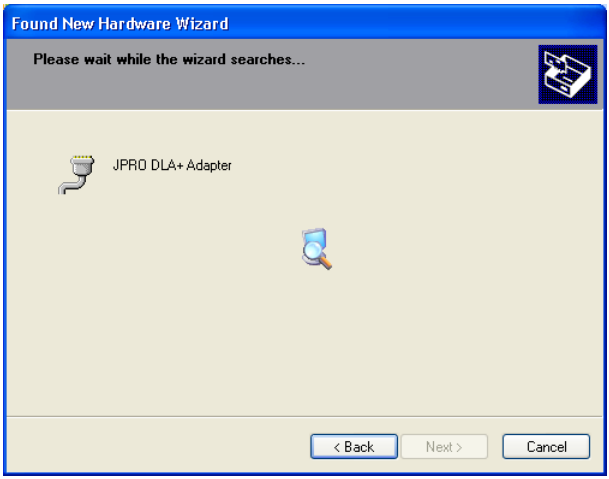


Figure 9

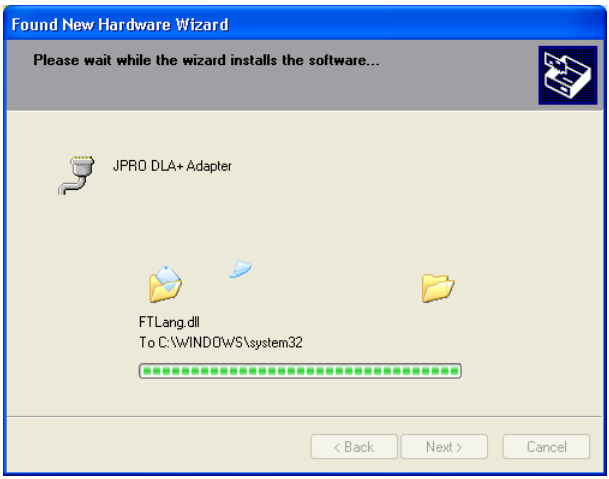


Figure 10

8. Click the ***Finish*** button to complete the installation.

Figure 11

Your adapter is ready for use with your diagnostic application.

NOTE: If using the DLA+ Wireless adapter, please proceed to the next section, *JPRO® DLA+ Wireless Configuration****, for configuration instructions on page 25.***

NOTE: See *Setting Up Diagnostic PC Applications* ***on page 73 for instructions on how to configure the adapter with your OEM diagnostic application.***

JPRO® DLA+ Wireless Configuration

NOTE: Check the Support section of the www.JPROFleetProducts.com website for any notes or changes to the DLA+ Wireless configuration process.

Three procedures are needed for configuring the DLA+ Wireless Adapter:

Before configuring the wireless functionality of the DLA+ Wireless Adapter, the drivers must be installed. Please be sure to follow the instructions in the ***Installation*** section on page 13 for driver installation and hardware connections.

These are the DLA+ Wireless default adapter settings:

Network Name (SSID)	LTRX_IBSS
Network Type	Ad Hoc
Channel	11
Security	None
IP Address	192.168.2.100
Subnet Mask	255.255.255.0
Gateway IP	0.0.0.0
DNS Server IP	0.0.0.0
Adapter Name*	NORWIRE32-*xxxx*

*the last four characters of the Adapter Name will match the last four characters of the MAC Address shown on the label on the back of your adapter

Configuring the JPRO® DLA+ Wireless Adapter

To configure the adapter for the first time, or to change its network settings, follow these steps:

1. Plug the USB cable into the USB port on the PC.

NOTE: This step and the next step may already be completed if you just finished the driver installation section.

2. Connect the other end of the USB cable to the port labeled Computer on the adapter.

3. Open the **JPRO® DLA+ Wireless Configuration Tool** from the Start ▶ All Programs ▶ Noregon ▶ JPRO® DLA+ Wireless Adapter menu.

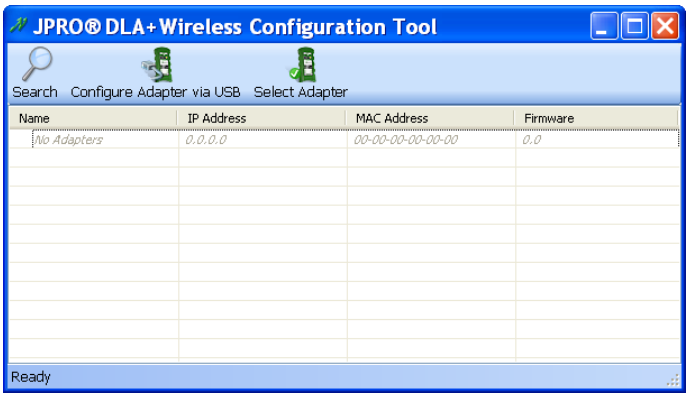


Figure 12

NOTE: Depending on your system security settings, you may receive a Windows Security Alert similar to the one in Figure 13. If so, verify the name of the program in the alert is the JPRO® DLA+ Wireless Configuration Tool and click the Unblock button.

Figure 13

4. Click the ***Configure Adapter via USB*** button on the toolbar (see highlighted box in Figure 14 below).

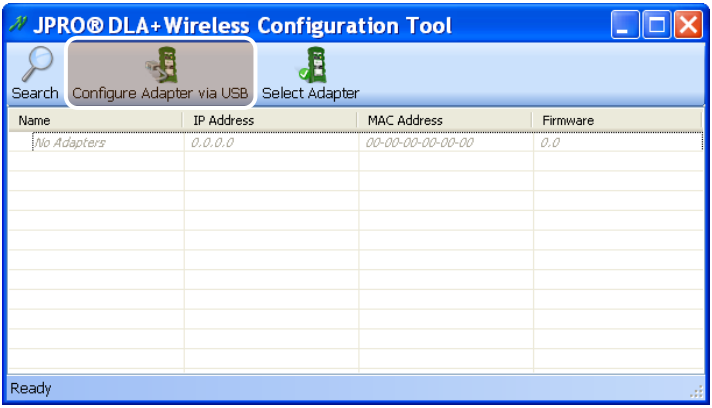


Figure 14

5. Write down the IP Address shown on the Network tab of the dialog shown on your screen (screenshot below is only an example).

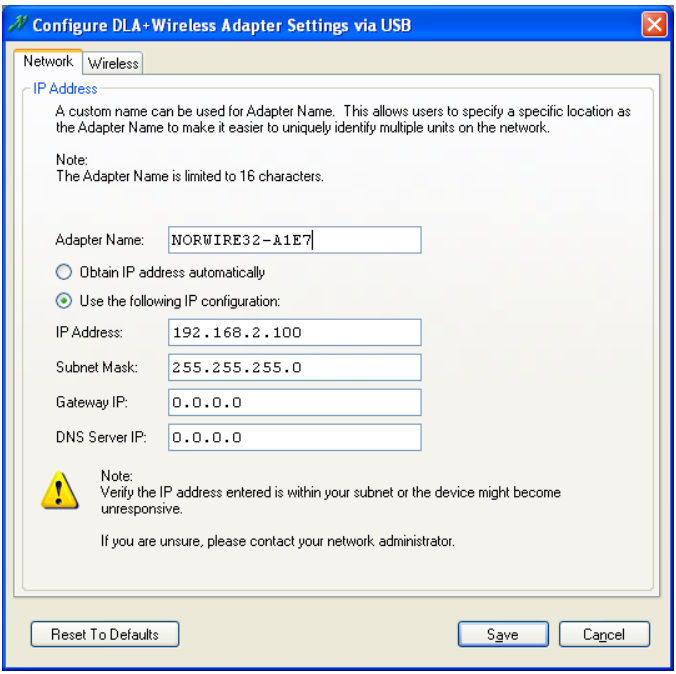


Figure 15

NOTE: Figure 15 shows a default adapter name of NORWIRE32-A1E7. Your default Adapter Name will vary to match the last four characters of the MAC Address shown on the label on the back of your adapter.

NOTE: The IP Address shown above is the default setting for your adapter. You can change the IP Address to meet your network configuration requirements. If necessary, consult your network administrator.

NOTE: If more than one JPRO® DLA+ Wireless Adapter is on the network, then ensure a unique IP Address value is assigned for each adapter.

6. Click the Wireless tab to view the wireless settings for the adapter.

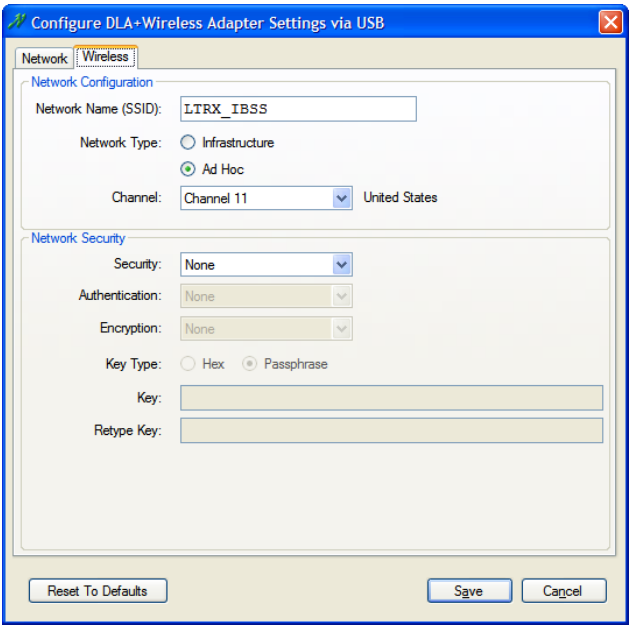


Figure 16

NOTE: To use the DLA+ Wireless Adapter on an existing wireless network, with a DHCP server, select the** Infrastructure **Network Type and enter the proper Network Name (SSID) and security values for the wireless network. In addition, change the IP address, Subnet Mask and Gateway IP on the Network tab to values appropriate for your existing wireless network. If necessary, consult your network administrator.

7. Click the ***Save*** button to commit the settings to the adapter. The adapter will then reset and attempt to connect to the wireless network. The JPRO® DLA+ Wireless Configuration Tool will then refresh the list of JPRO® DLA+ Wireless adapters connected to your network.

You have now configured the JPRO® DLA+ Wireless Adapter. Proceed with ***Configuring your PC to use the JPRO® DLA+ Wireless Adapter*** on page 32 to complete the setup.

Configuring your PC to use the JPRO® DLA+ Wireless Adapter

Depending on the version of Windows your PC is running, please see the appropriate section below:

Wireless Configuration using Windows® 7

NOTE: This section assumes that Windows® is managing your wireless configuration. If your PC is using a third-party OEM wireless utility to manage your wireless card, please consult the OEM manual for instructions on wireless configuration.

1. Click the ***Start*** button and click **Control Panel**.

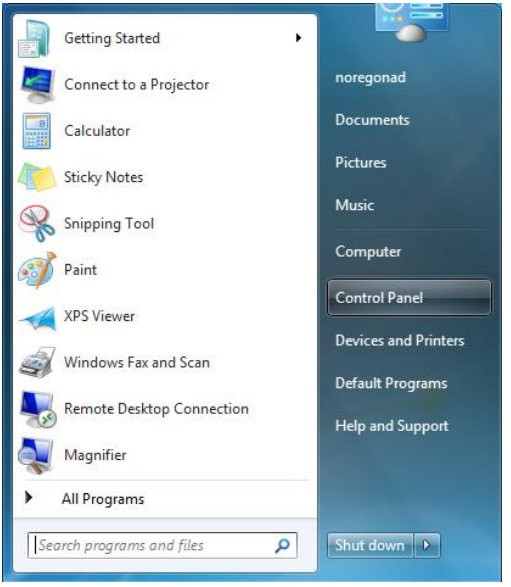


Figure 17

2. Click the ***Network and Internet*** link.

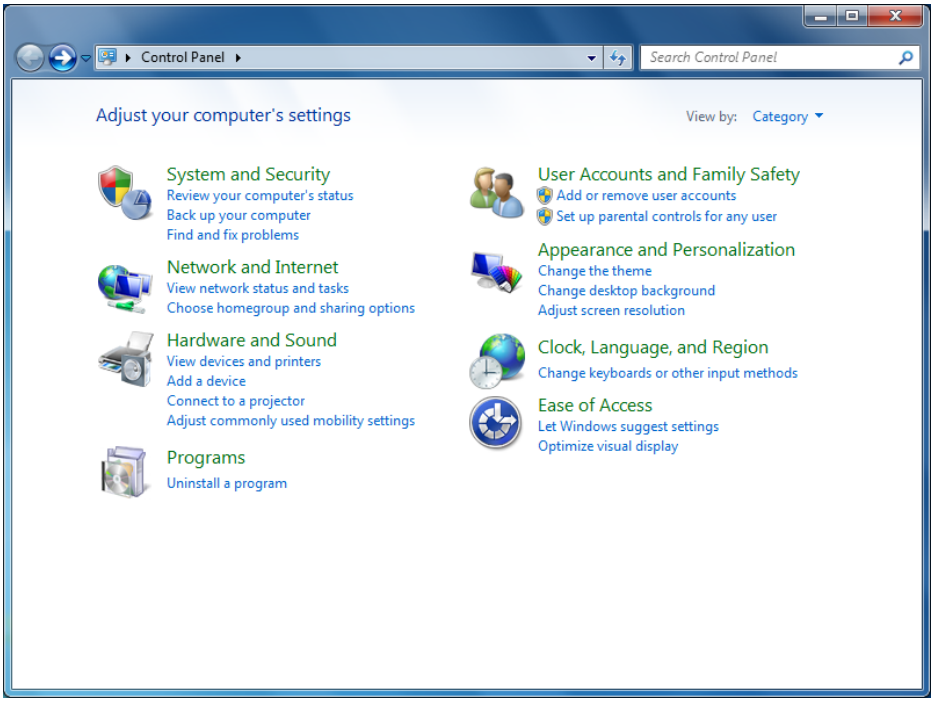


Figure 18

3. Click ***Connect to a Network*** under the **Network and Sharing Center** section.

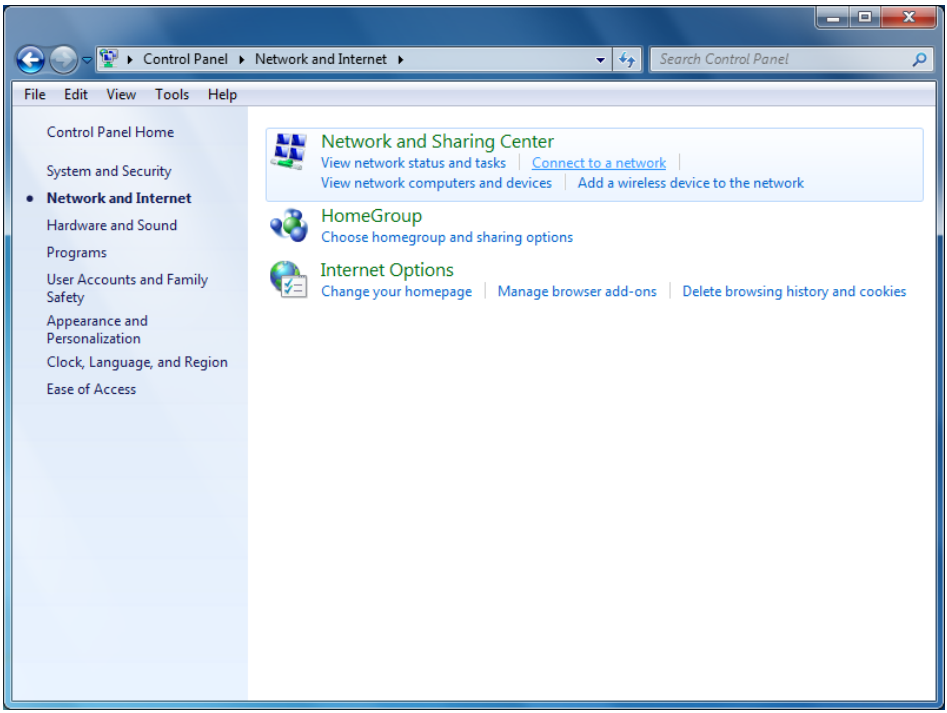


Figure 19

4. Select the **LTRX_IBSS** network in the Wireless Network list and click the ***Connect*** button.

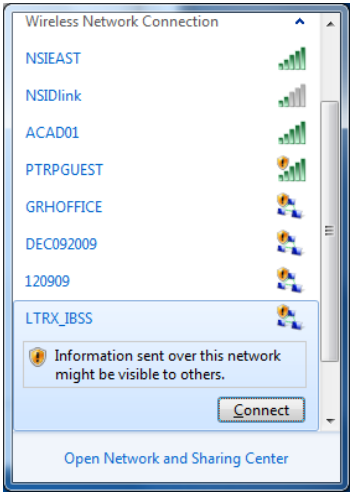


Figure 20

5. Again, click ***Connect to a Network*** under the **Network and Sharing Center** section.

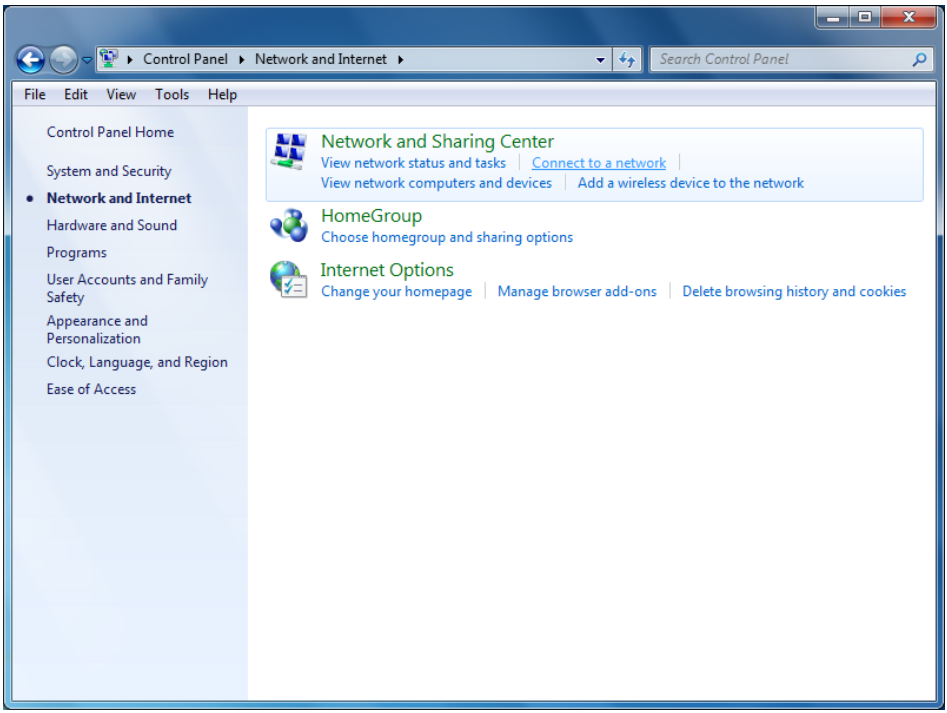


Figure 21

6. Right-click on the **LTRX_IBSS** network and select ***Status***.

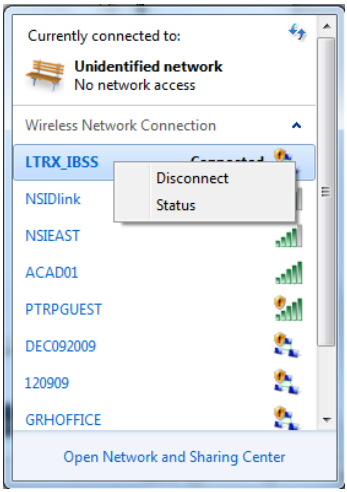


Figure 22

7. Click the ***Properties*** button.

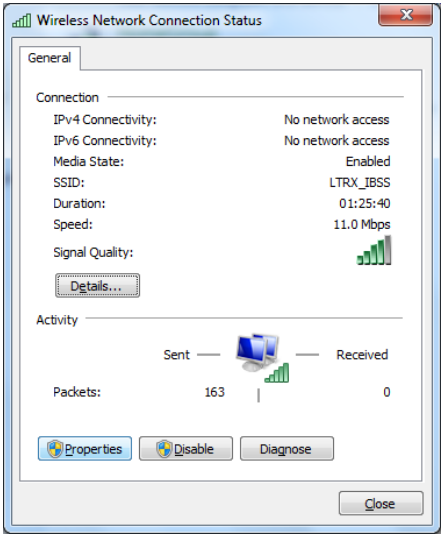


Figure 23

8. Highlight **Internet Protocol Version 4(TCP/IPv4)** and click the ***Properties*** button.

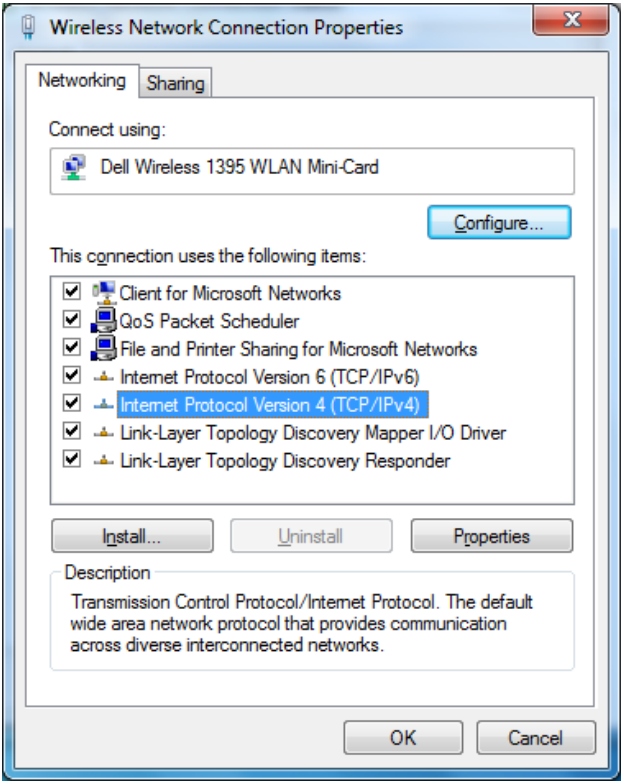


Figure 24

9. Assign the static IP address by selecting ***Use the following IP address*.**

NOTE: The first three values of the IP address (i.e. 192.168.2) must match the Adapter's IP address you wrote down in step 5 on page 29. The fourth value must be unique (192.168.2.xxx).

NOTE: If using the 192.168.2.xxx IP address range, the Subnet mask should be assigned as 255.255.255.0. Otherwise the Subnet mask will vary.

NOTE: Default gateway IP address should remain blank.

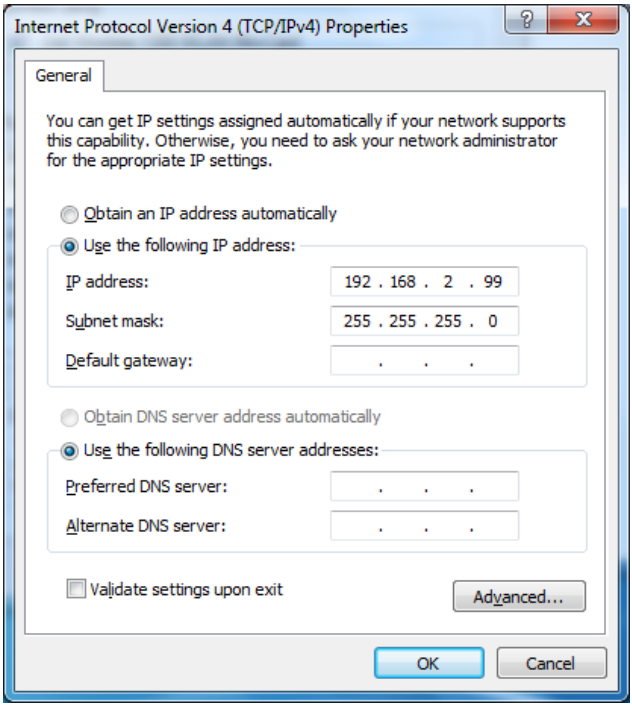


Figure 25

10. Click the ***OK*** button**.**

11. Click the ***OK*** button to close Wireless Network Connection Properties dialog.
12. Click the ***View Network Status and Tasks*** button under the **Network and Sharing Center** section.

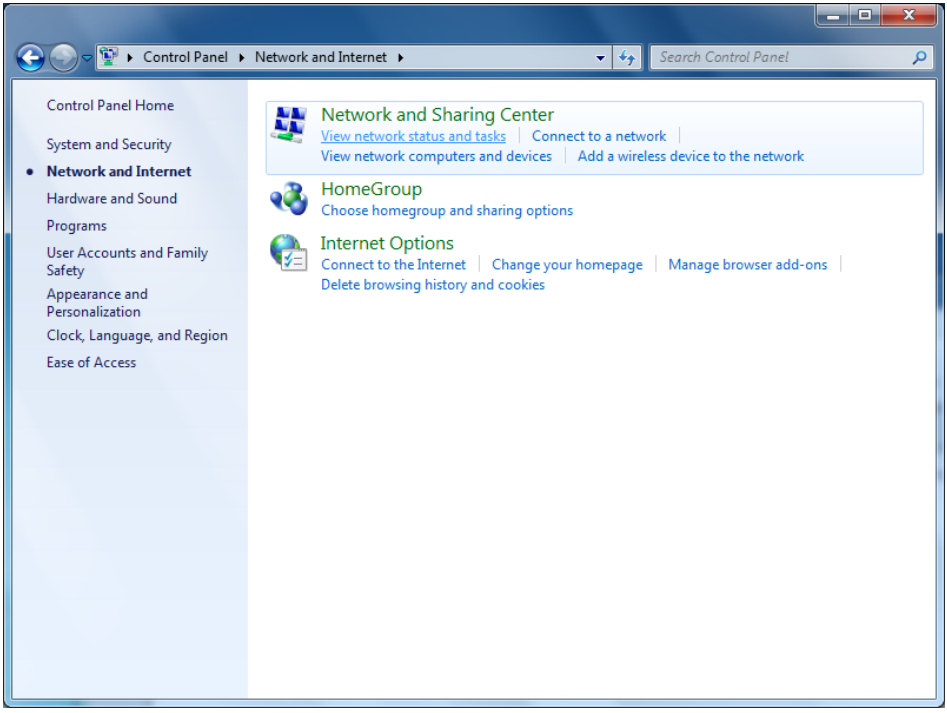


Figure 26

13. On the left side of the dialog, click the ***Manage Wireless Networks*** link (see highlighted box in Figure 27 below).

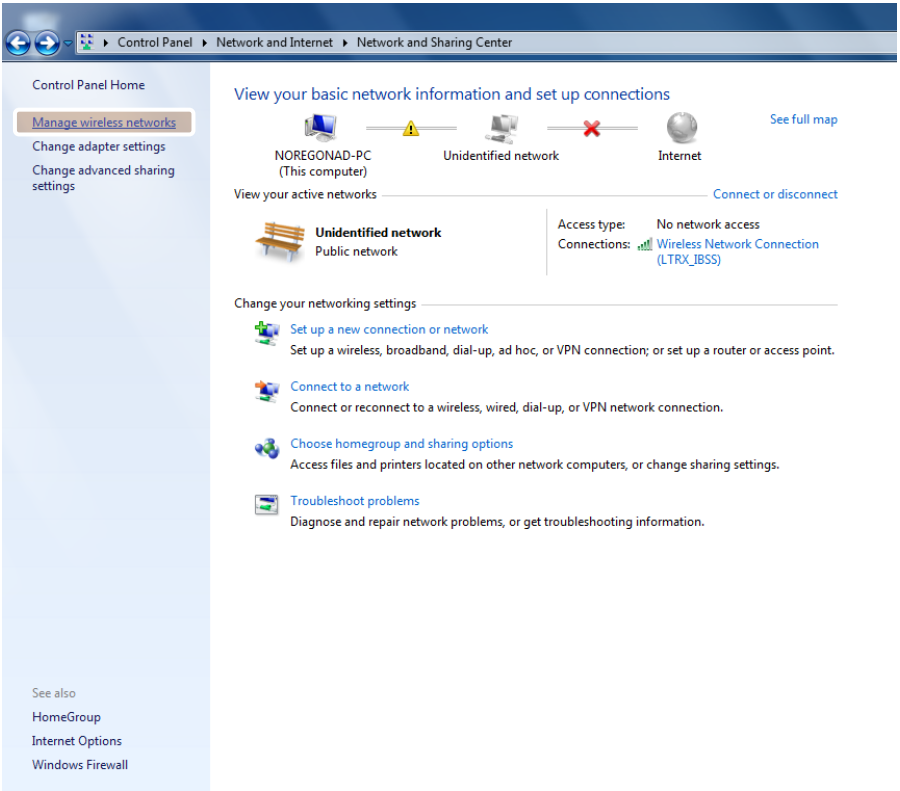


Figure 27

14. Click the ***Add*** button (see highlighted box in Figure 28 below).

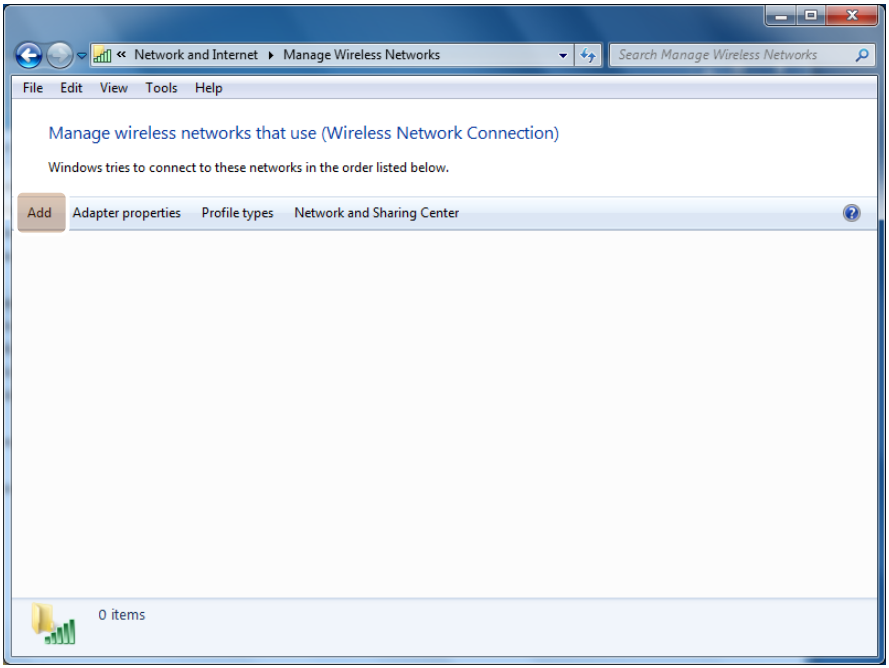


Figure 28

15. Click ***Manually Create a Network Profile***.

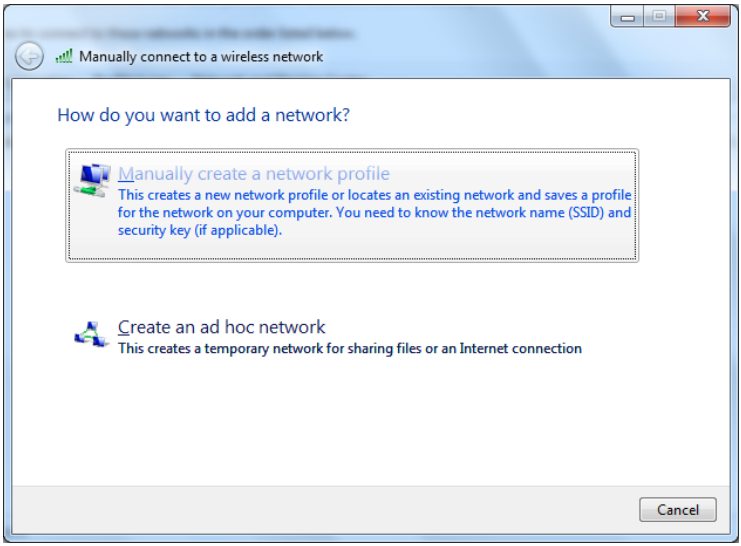


Figure 29

16. Enter LTRX_IBSS in the Network name field.

NOTE: The network name is case sensitive. Be sure to enter the network name exactly as seen in Figure 22.

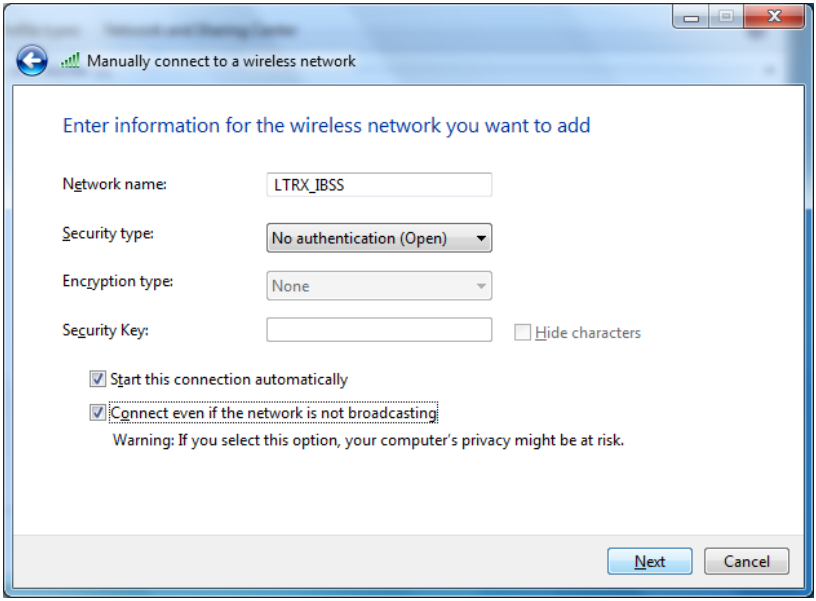


Figure 30

17. Select ***No authentication (Open)*** from the Security Type dropdown list.
18. Check the checkbox for **Start this connection automatically** and the checkbox for **Connect even if the network is not broadcasting**.
19. Click the ***Next*** button.

20. Click the ***Close*** button.

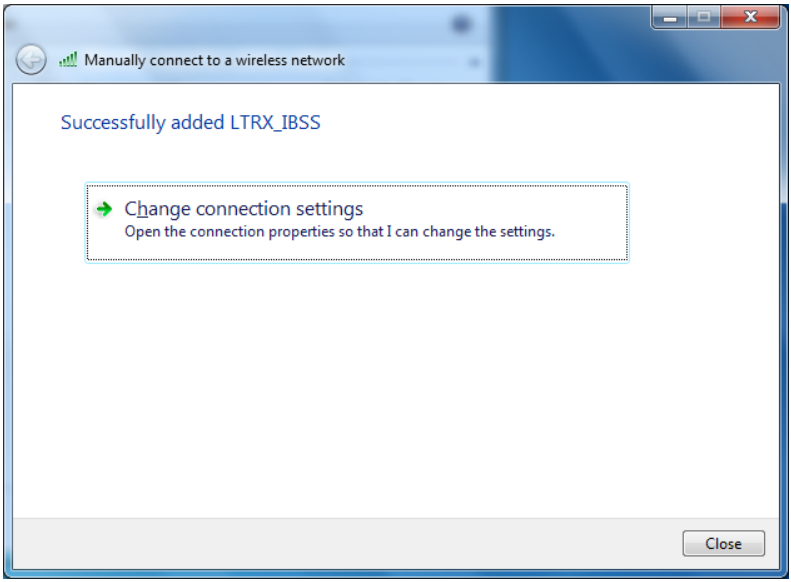


Figure 31

21. The Wireless Network Connection list is updated to display the network you just added.

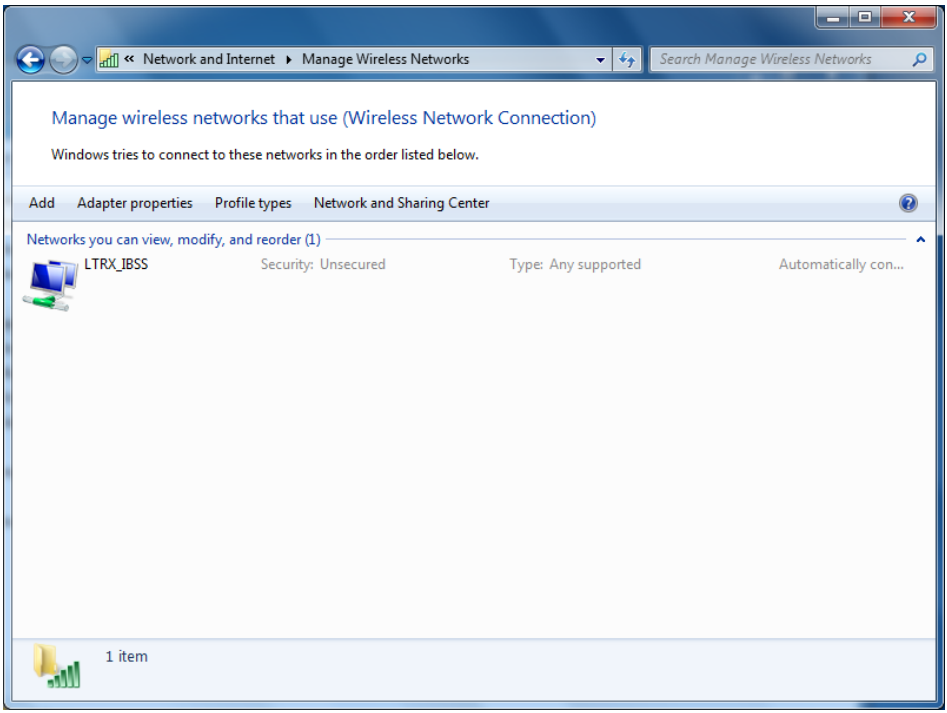


Figure 32

22. Proceed to the ***Establishing the Connection Between your PC and the Adapter*** on page 66.

Wireless Configuration using Windows® Vista

NOTE: This section assumes that Windows® is managing your wireless configuration. If your PC is using a third-party OEM wireless utility to manage your wireless card, please consult the OEM manual for instructions on wireless configuration.

1. Click the ***Start*** button and click **Connect To**.

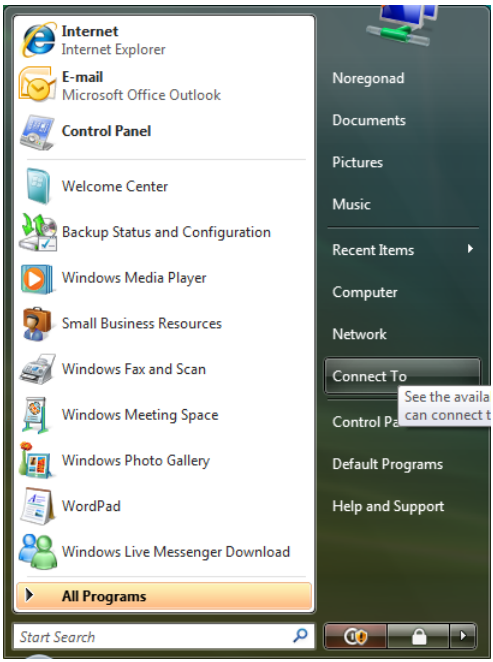


Figure 33

2. Select **LTRX_IBSS** from the network list and click the ***Connect*** button.

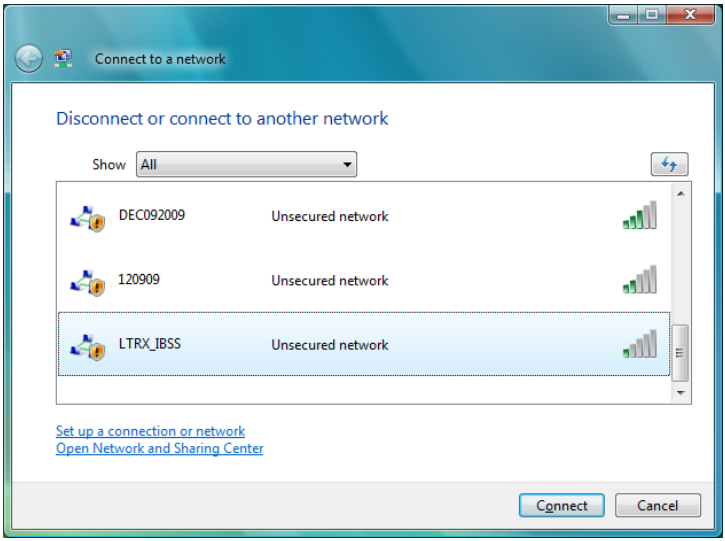


Figure 34

3. Depending on your system security settings, you may receive an "unsecured network" message similar to the one in Figure 35. If so, click ***Connect Anyway***.

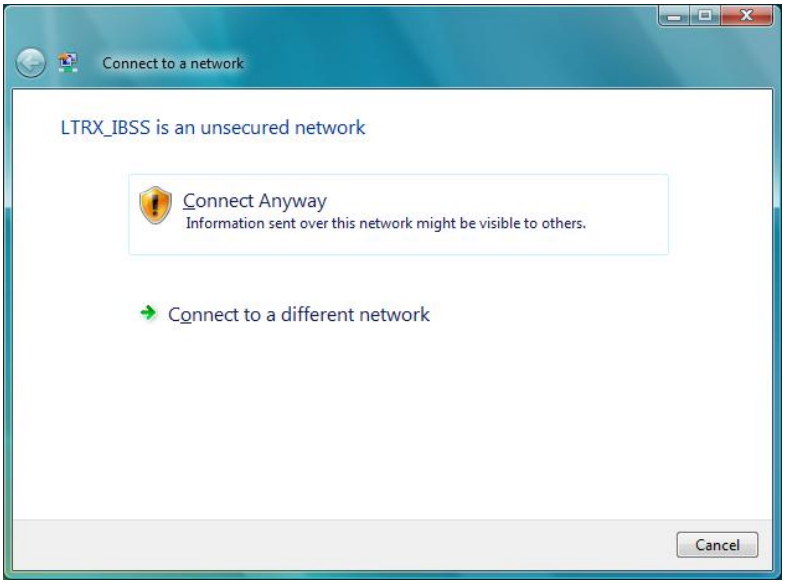


Figure 35

4. Check the **Save this network** checkbox and click the ***Close*** button.

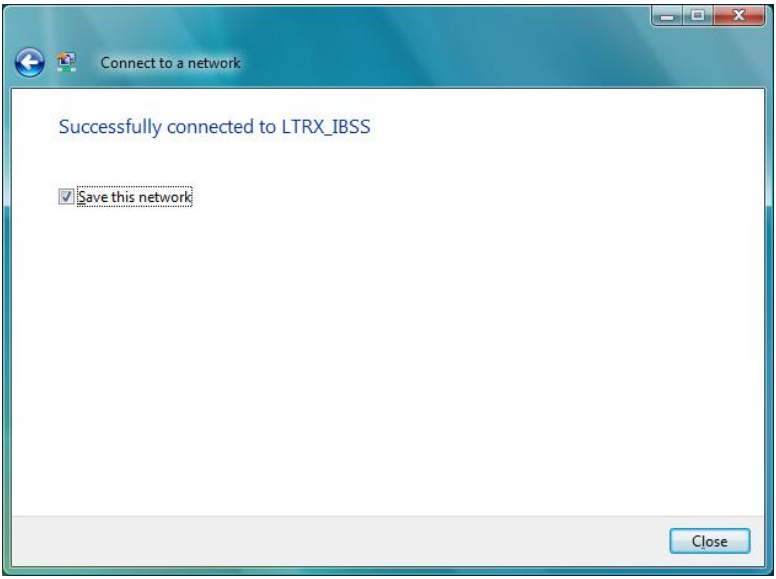


Figure 36

5. Click the ***Start*** button and click **Control Panel**.

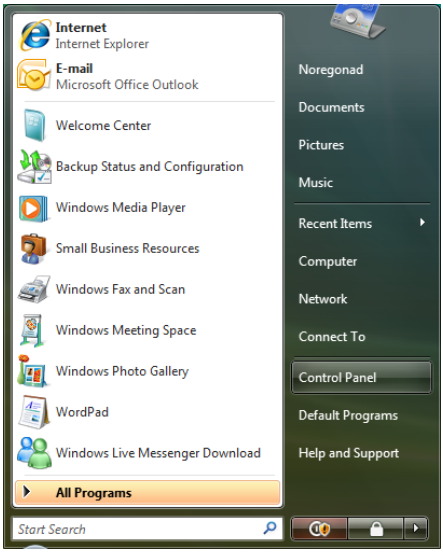


Figure 37

6. Click ***View Network Status and Tasks*** from the **Network and Internet** section (see highlighted box in Figure 38 below).

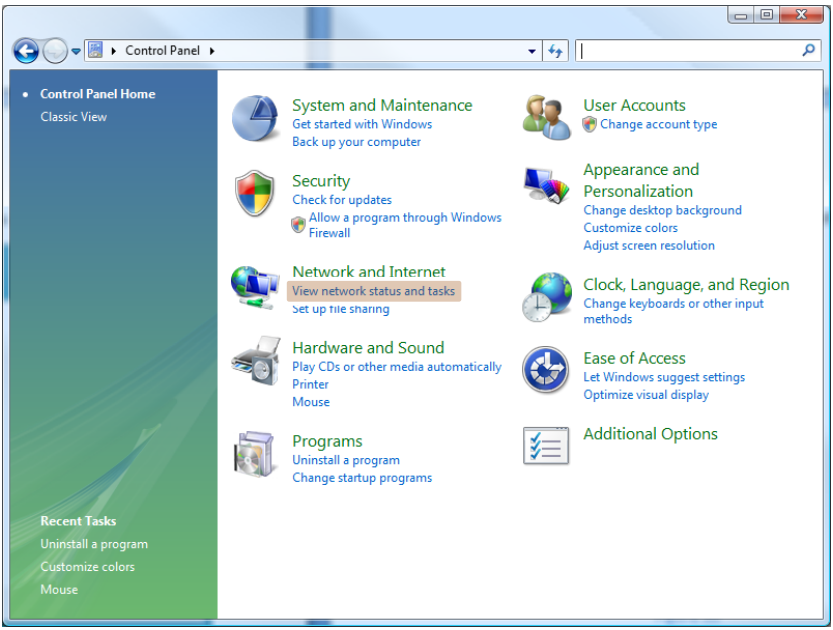


Figure 38

7. On the left side of the Network and Sharing Center dialog, click the ***Manage Network Connections*** link (see highlighted box in Figure 39 below).

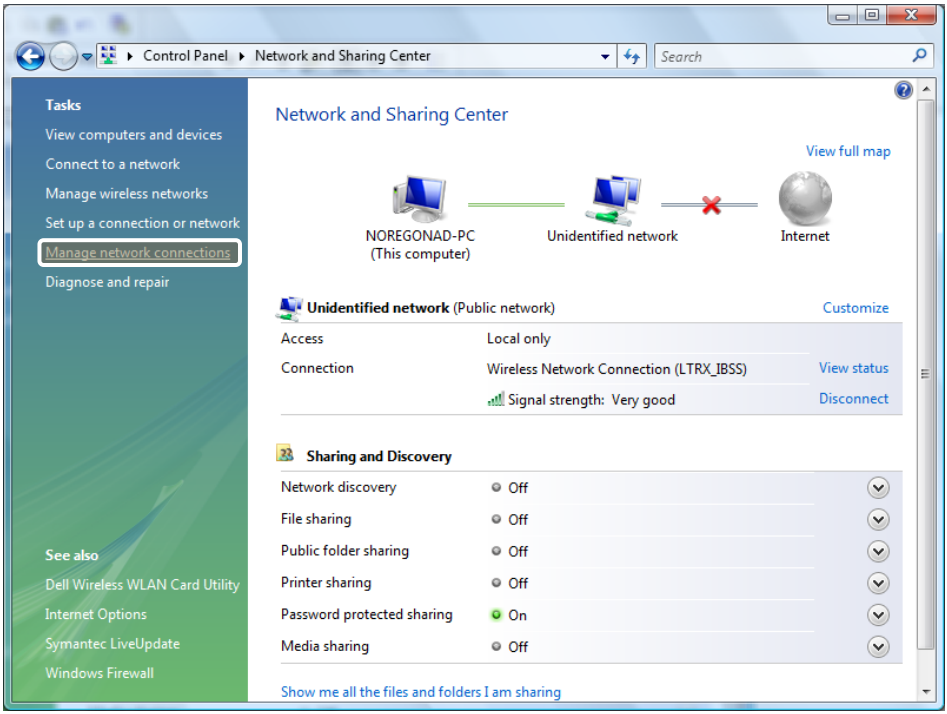


Figure 39

8. Right-click on **Wireless Network Connection – Unidentified Network** and select ***Status***.

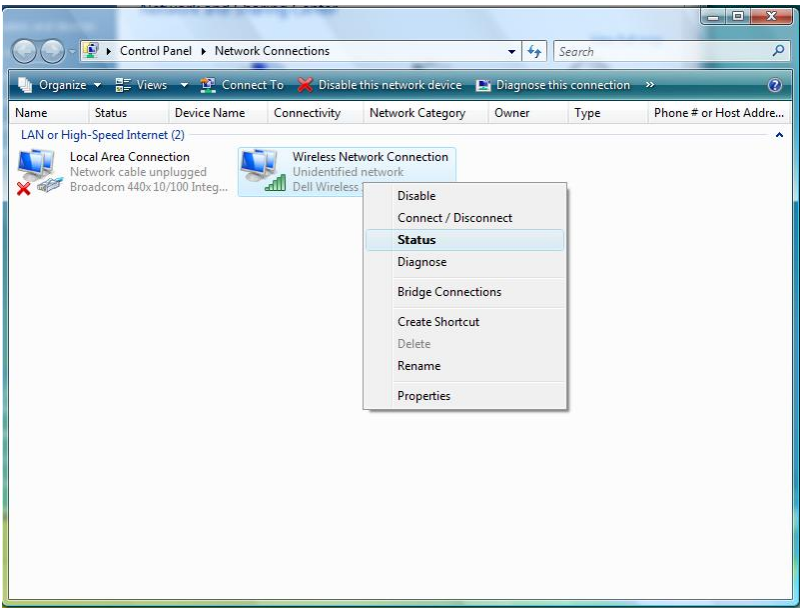


Figure 40

9. Click the ***Properties*** button.

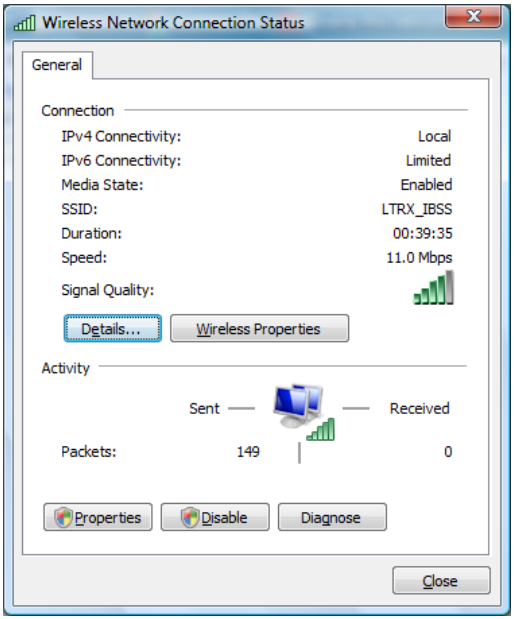


Figure 41

10. Highlight **Internet Protocol Version 4(TCP/IPv4)** and click the ***Properties*** button.

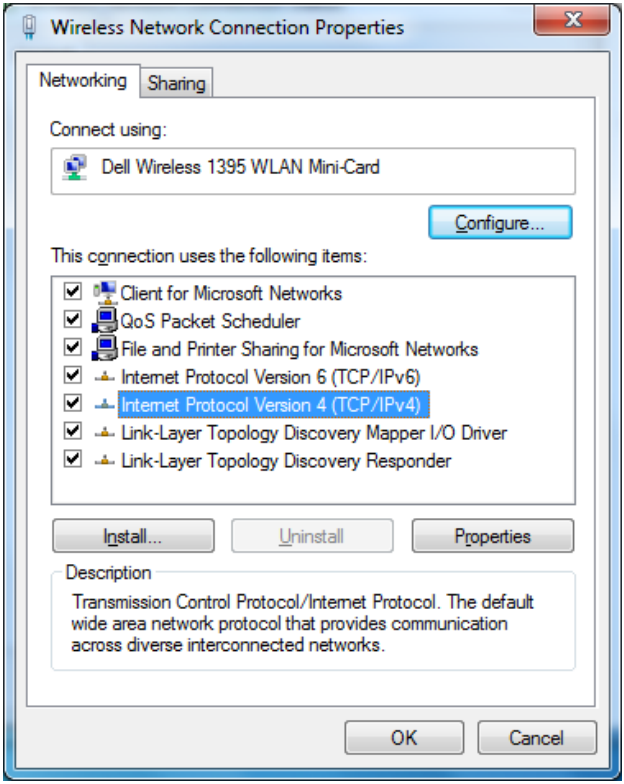


Figure 42

11. Assign the static IP address by selecting ***Use the following IP address*.**

NOTE: The first three groups of the IP address (i.e. 192.168.2) must match the Adapter's IP address shown in Figure 15. The fourth value must be unique (192.168.2.xxx).

NOTE: If using the 192.168.2.xxx IP address range, the Subnet mask should be assigned as 255.255.255.0. Otherwise the Subnet mask will vary.

NOTE: Default gateway IP address should remain blank.

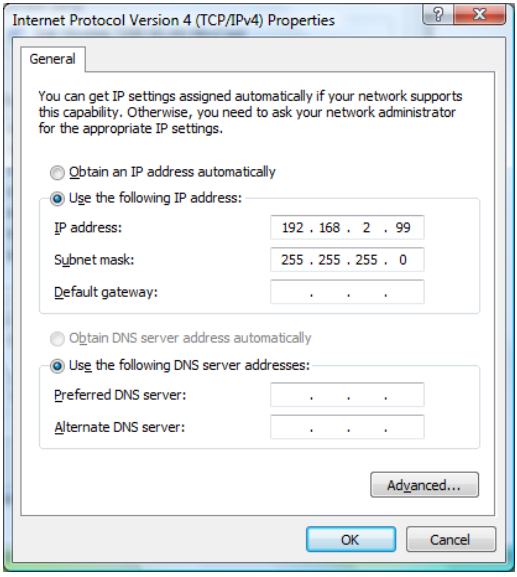


Figure 43

12. Click the ***OK*** button**.**
13. Close any remaining network-related windows that are open.
14. Proceed to the ***Establishing the Connection Between your PC and the Adapter*** on page 66.

Wireless Configuration using Windows® XP

NOTE: This section assumes that Windows® is managing your wireless configuration. If your PC is using a third-party OEM wireless utility to manage your wireless card, Figure 44 will be displayed. Please consult the OEM manual for instructions on wireless configuration.

1. Click the ***Start*** button, then click ***Connect To***, and select ***Wireless Network Connection***.

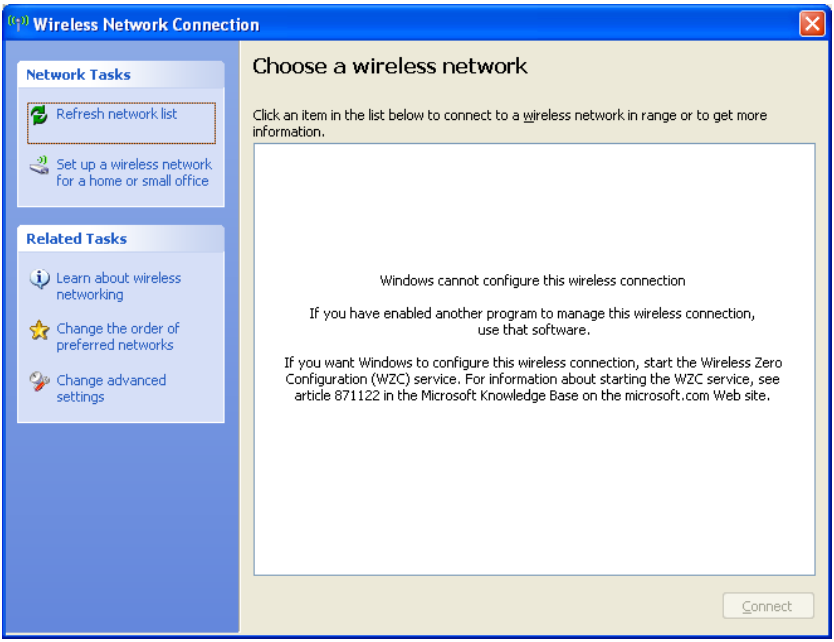


Figure 44

2. Click the ***Properties*** button.

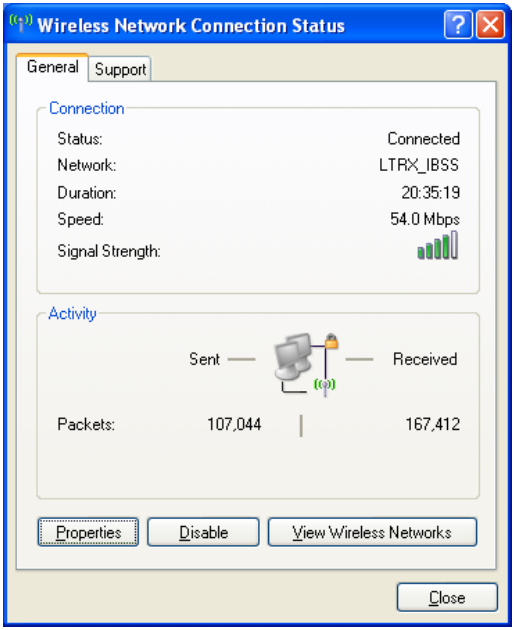


Figure 45

3. Highlight **Internet Protocol (TCP/IP)** and click the ***Properties*** button.

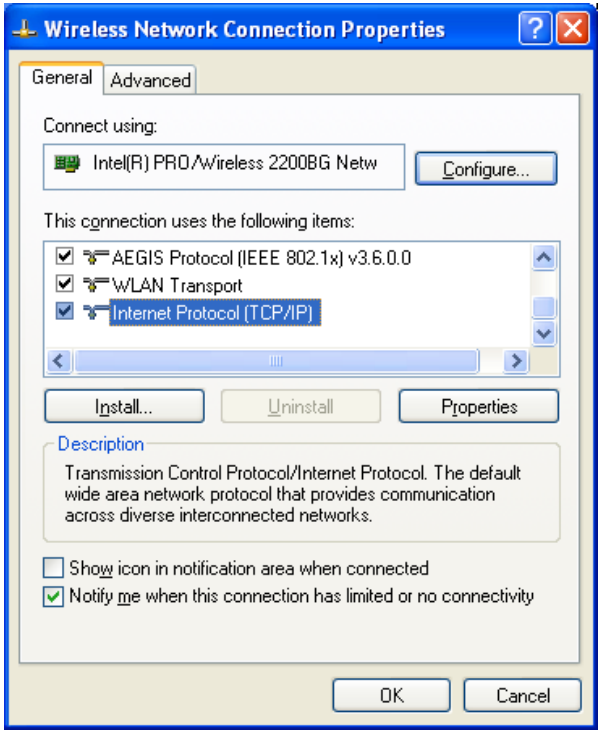


Figure 46

4. Assign the static IP address by selecting ***Use the following IP address*.**

NOTE: The first three groups of the IP address (i.e. 192.168.2) must match the Adapter's IP address shown in Figure 15. The fourth value must be unique (192.168.2.xxx).

NOTE: If using the 192.168.2.xxx IP address range, the Subnet mask should be assigned as 255.255.255.0. Otherwise the Subnet mask will vary.

NOTE: Default gateway IP address should remain blank.

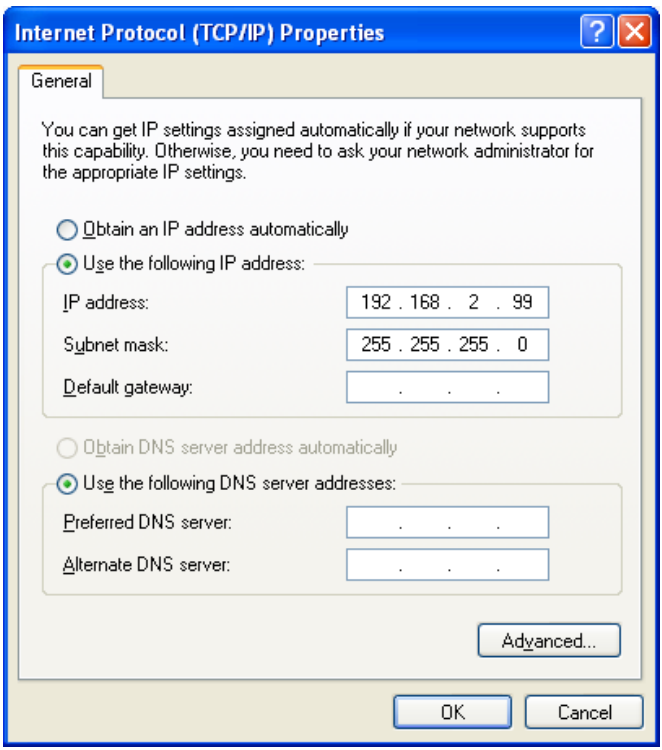


Figure 47

5. Click the ***OK*** button**.**

6. Click the ***OK*** button to close Wireless Network Connection Properties dialog.
7. Click the ***View Wireless Networks*** button on the Wireless Network Connection Status dialog.
8. Highlight the **LTRX_IBSS** wireless network and click the ***Connect*** button.

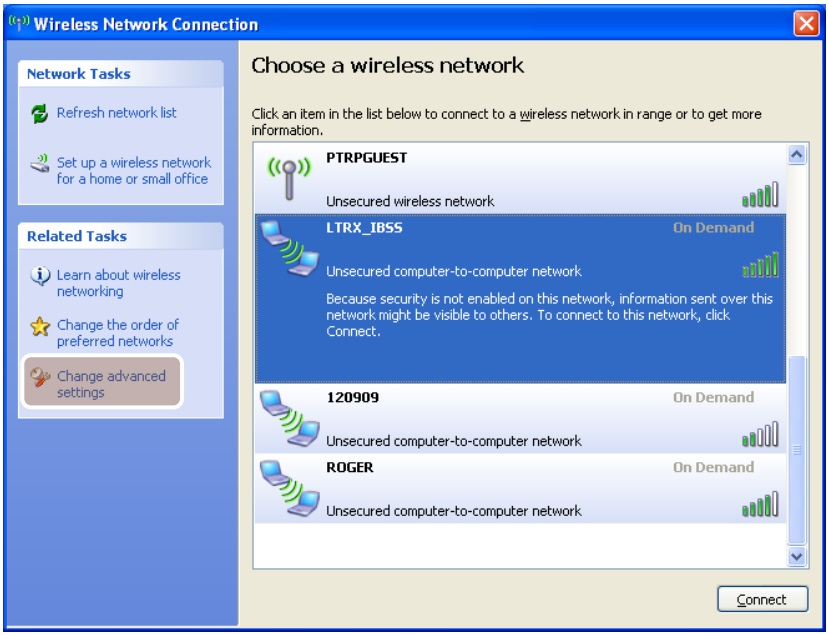


Figure 48

9. On the left side of the dialog, click the ***Change Advanced Settings*** link (see highlighted box in Figure 48 above).

10. Click the ***Wireless Networks*** tab at the top of the Wireless Network Connection Properties dialog.

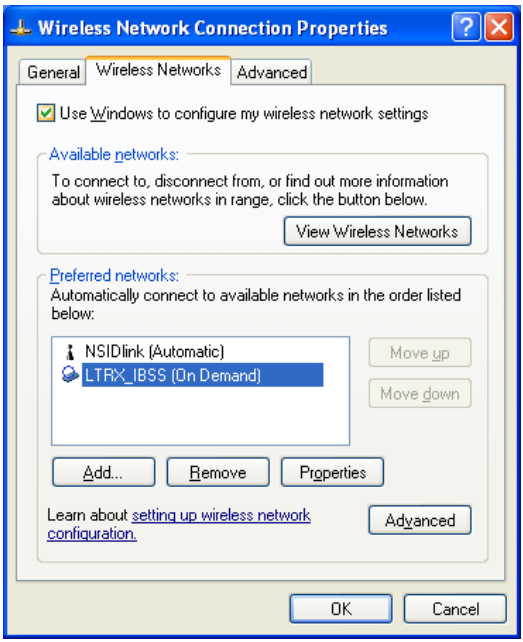


Figure 49

11. Highlight the **LTRX_IBSS** wireless network in the Preferred Network list. Click the ***Properties*** button.

12. Check the checkbox for **Connect even if the network is not broadcasting**.

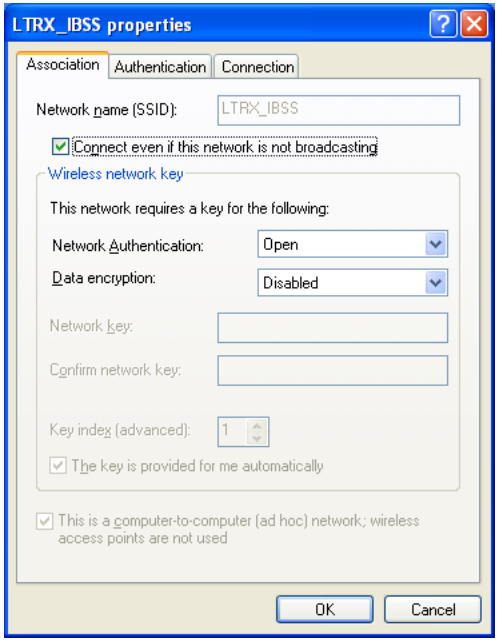


Figure 50

13. Click the ***Connection*** tab at the top of the LTRX_IBSS Properties dialog.

14. Check the checkbox for **Connect when this network is in range**.

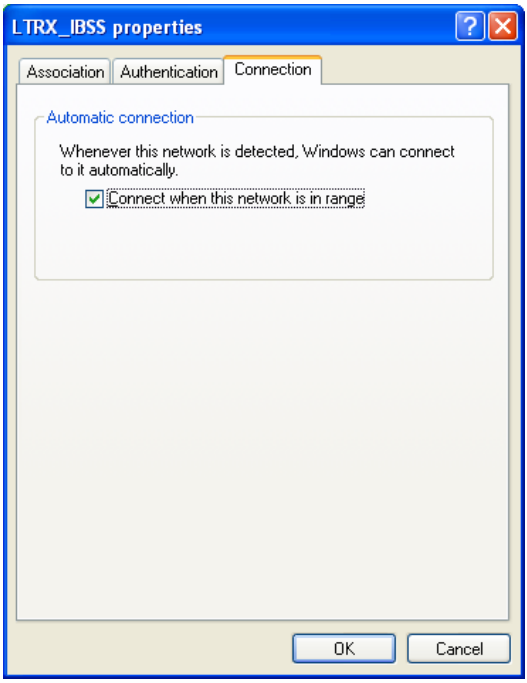


Figure 51

15. Click the ***OK*** button.
16. Click the ***OK*** button on the Wireless Network Connection Properties dialog.

Establishing the Connection Between your PC and the Adapter

1. Click the ***Search*** button on the JPRO® DLA+ Wireless Configuration Tool toolbar.

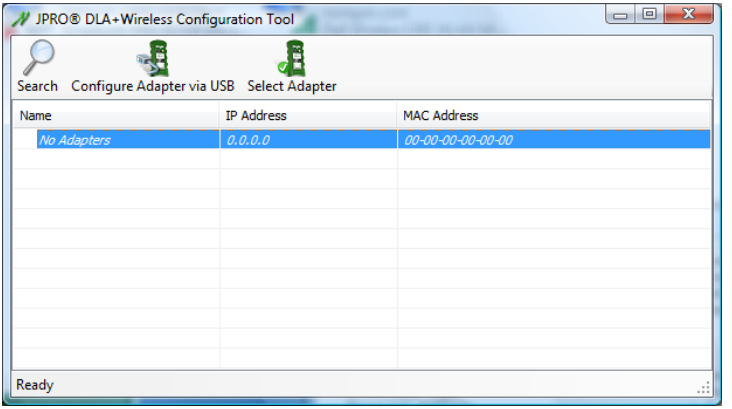


Figure 52

2. The Adapter will be shown.

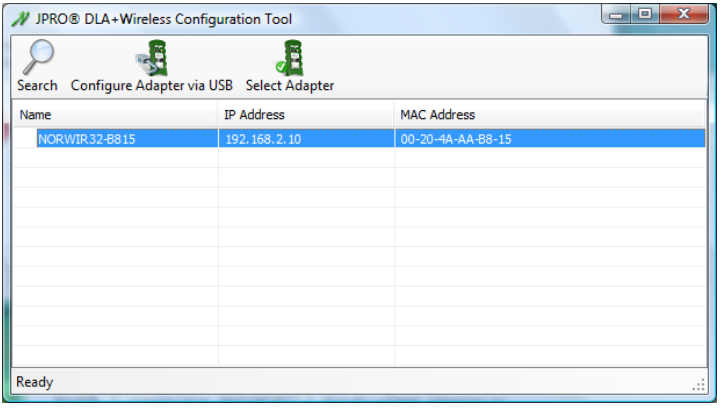


Figure 53

NOTE: Name, IP Address and MAC address may have different values from those shown.

3. Verify that the adapter you are configuring is listed by matching the MAC Address value printed on the label on the back of adapter with an entry in the JPRO® DLA+ Wireless Configuration Tool list.
    a. If your adapter is not listed, click the ***Search*** button again to refresh the list.
    b. If your adapter is listed in **RED text** or is still not listed, go back and compare IP address values in Figure 15 of the ***Configuring the JPRO® DLA+ Wireless Adapter*** section and Figure 47 of the ***Configuring your PC to use the JPRO® DLA+ Wireless Adapter*** section.
    c. If your adapter is still not listed in the Configuration Tool please see the ***Technical Support*** section on page 85.
4. Highlight the desired adapter in the list that will be used for vehicle communications with OEM applications and click the ***Select Adapter*** button.

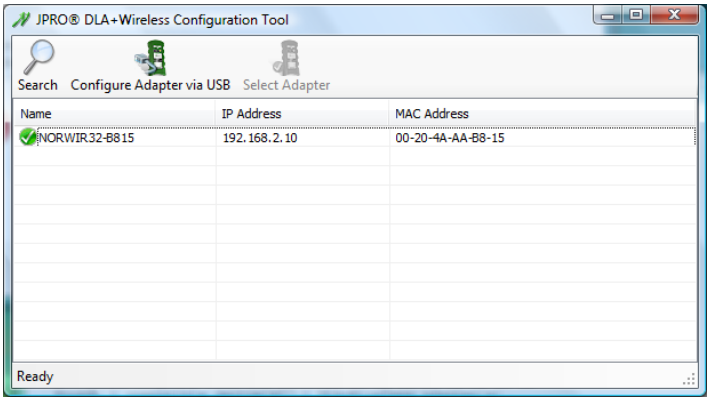


Figure 54

This will place a checkmark beside the desired adapter to signify that it will be used for vehicle communications.

5. Close the JPRO® DLA+ Wireless Configuration Tool window by clicking the **X** button in the top right corner.
6. Proceed to ***Setting Up Diagnostic PC Applications*** on page 73 for instructions on how to configure the adapter with your OEM diagnostic applications.

Your adapter is ready for use with your diagnostic application!

NOTE: If the DLA+ Wireless Adapter is later configured for another network, you will need to reset the IP address in order for your PC to recognize the DLA+ Wireless Adapter.

> ***To do this, verify and compare IP address values in Figure 15 of the*** *Configuring* the JPRO® DLA+ Wireless Adapter ***section and Figure 47 of the*** *Configuring your PC to use the JPRO® DLA+ Wireless Adapter* ***section.***

Windows Security and Firewall Settings

The JPRO® DLA+ Wireless Configuration Tool will attempt to discover the JPRO® DLA+ Wireless adapters connected to your network by sending out requests on TCP and UDP ports 30718. Steps may need to be taken to configure firewall software to allow TCP and UDP ports 30718.

Updating Adapter Firmware

NOTE: Check the Support section of the www.JPROFleetProducts.com website for the latest adapter firmware.

To update the firmware (this example uses the JPRO® DLA+ PLC Adapter):

1. Apply power to the adapter.
    a. For DLA+ and DLA+ PLC Adapter users, ensure the adapter is connected to the vehicle via the diagnostic cable and the PC via the USB cable.
        i. The vehicle's 6-pin and/or 9-pin diagnostic port is usually located under the dashboard on the driver's side, or beside the driver's seat
            1. If the Adapter's power LED does not illuminated, ensure the vehicle's key is set to the "ON" position.
    b. For DLA+ Wireless Adapter users, ensure the adapter is connected to the PC via the USB cable.
2. Plug the USB cable into the USB port on the PC.
3. Connect the other end of the USB cable to the port labeled Computer on the adapter.
4. Launch **USB Device Update Tool** from the Start Menu ▶ All Programs ▶ Noregon ▶ JPRO DLA+ PLC Adapter menu.

5. Verify a device shows up in the 'Connected Devices' list column.

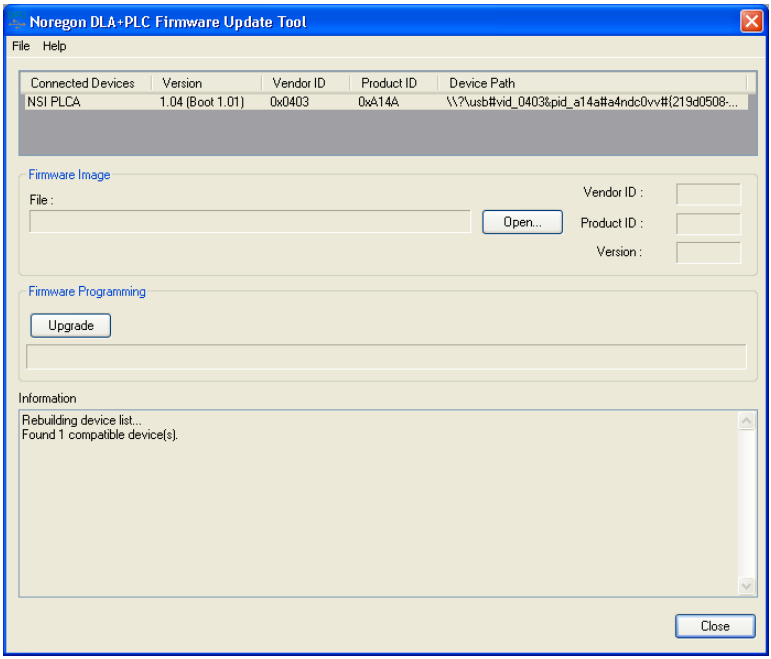


Figure 55

6. Select the ***Open…*** button contained in the 'Firmware Image' section.

7. Highlight the **DLA.dfu** file and then click ***Open***.

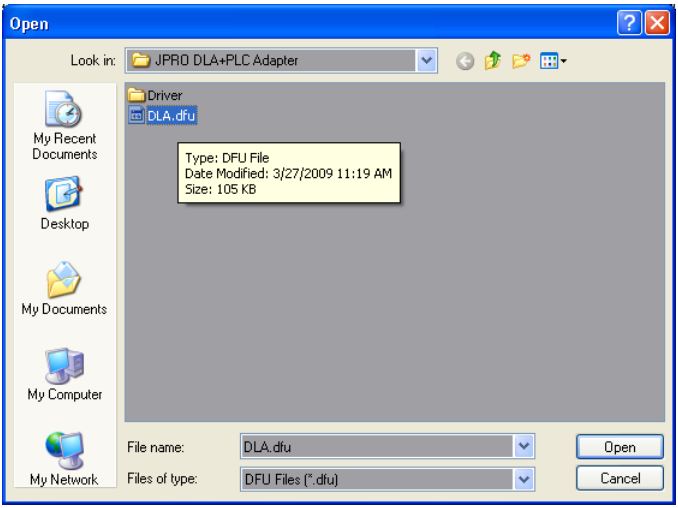


Figure 56

8. Click the ***Upgrade*** button.
9. Click ***Yes*** to continue (do not disconnect or power down device).

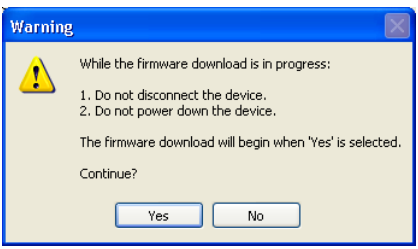


Figure 57

10. The device will be programmed.

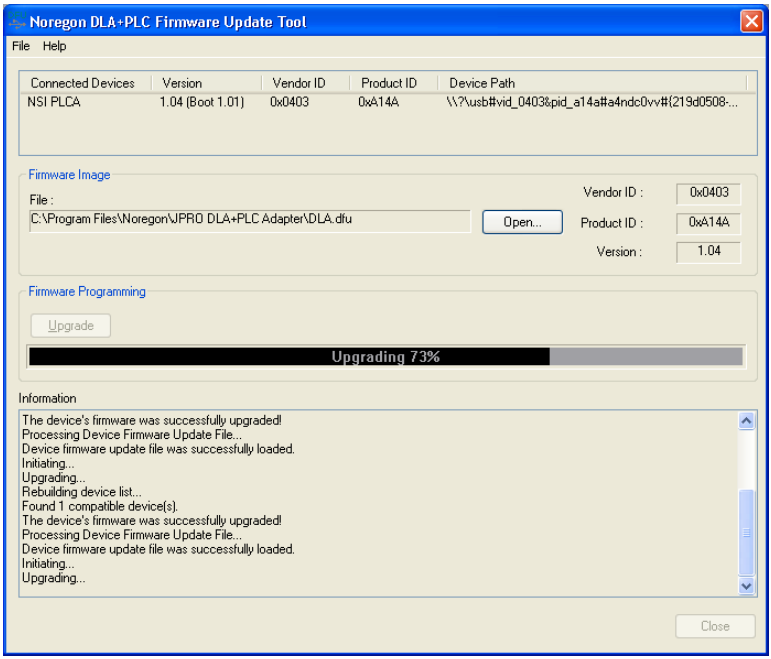


Figure 58

11. Verify that the version is updated in the 'Connected Devices' list column.

Setting Up Diagnostic PC Applications

The diagnostic applications supported by the Noregon DLA+ adapter's use varying methods of vehicle communication device selection. This section provides instructions for configuring some of the PC diagnostic application currently available for use with the Noregon DLA+ adapters.

NOTES:

JPRO® DLA+, DLA+PLC, or DLA+ Wireless users should install the software drivers designed for their product. Unless specified differently, the same instructions apply to all adapters. For some diagnostic applications the user will need to select 'NORCAN32' for the DLA+, the 'NORPLC32' for the DLA+PLC, or the 'NORWIR32' for the DLA+ Wireless. Braking diagnostic software users will need to use the PLC (Power Line Carrier) protocol with the JPRO® DLA+PLC Adapter when connecting to trailers.

The instructions provided here are based on the application settings at the time this guide was developed.

If you need assistance setting up these OEM diagnostic PC applications, contact Noregon Systems Help Desk at 1-336-768-4337 ext. 150 between 8:00 am - 6:00 pm EST, or via email at support@noregon.com , or visit us online at www.JPROFleetProducts.com.

List of Diagnostic PC Applications

JPRO® Fleet Diagnostics

1. From the PC's desktop, select the **'JPRO® Fleet Diagnostics'** desktop icon or click **Start** then select **All Programs** ▸ **Noregon** ▸ **JPRO® Fleet Diagnostics** ▸ **JPRO® Fleet Diagnostics**.
2. Click the preferences icon (gears).
3. Select the radio button for **Auto Connect.**
4. Press **OK**.
5. Click the **Connect** button (two arrows pointing in).

Allison DOC™ For Fleets (1000/2000)

1. From the PC's desktop, select the **'Allison DOC For Fleets (1K2K)'** desktop icon or click **Start** then select **All Programs** ▸ **Allison Transmission** ▸ **Allison DOC For Fleets (1K2K)**.

   The **Allison Transmission** screen appears.

2. Click the **Connect to Vehicle** button or **F4.**

   The **Transmission Connect/Disconnect** screen appears.

3. Uncheck '**SmartConnect**' and then select the '**Connect**' button.
4. On the '**Communications Adapter Setup'** screen, select the '**Advanced Setup**' button.
5. Select **NORCAN32**, or **NORPLC32** (see above Note), **J1939** and **DLA+ CAN1 250K** (or **DLA+PLC CAN1 250k**).
6. Click **Connect**.

Allison DOC™ For Fleets (3000/4000)

1. From the PC's desktop, select the **'Allison DOC For Fleets (3K4K)'** desktop icon or click **Start** then select **All Programs** ▸ **Allison Transmission** ▸ **Allison DOC For Fleets (3K4K)**.

   The **Allison Transmission** screen appears.

2 Click the **Connect to Vehicle** button or **F4.**

The **Transmission Connect/Disconnect** screen appears.

3 Uncheck '**SmartConnect**' and then select the '**Connect**' button.

4 On the '**Communications Adapter Setup'** screen, select the '**Advanced Setup**' button.

5 When connecting to a 4th Generation 3000/4000 Series, select **NORCAN32** (or **NORPLC32**, see above Note), **J1939** and **DLA+ CAN1 250K** (or **DLA+PLC CAN1 250k**).

6 When connection to a pre-4th Generation 3000/4000 Series, select **NORCAN32**, or **NORPLC32** (see above Note), **J708** and **DLA+ 1708,** or **DLA+PLC 1708**.

7 Click **Connect**.

Bendix ACOM Diagnostics

1 From the PC's desktop, click **Start** then select **All Programs** ▸ **ACom Diagnostics**.

The **Diagnostic Interface Selection** screen appears.

2 Under Manufacturer Name, click on the drop-down list box and select **Noregon Systems, Inc**. Check the desired protocol/device combination such as:

a. **RP1210A device using J1708 line: DLA+ (DLA+)**
b. **RP1210A device using J1708 line: DLA+PLC (DLA+PLC)**
c. **RP1210A device using PLC line: DLA+PLC (DLA+PLC)**

3 Click **OK**.

Caterpillar Electronic Technician

1 From the PC's desktop, click **Start** then select **Programs** ▸ **Caterpillar ET** ▸ **Electronic Technician**.

2 Click on **Utilities** ▸ **Preferences** on the screen's menu bar.

The **Preferences** screen appears.

3 Select the **Communications** tab ,from the drop down menu select **RP1210A Compliant Device**

4 Click on the **Advance** Button,

The **RP1210A Communication Adapter Selection** screen appears

5 Select **DLA+(100) – Noregon Systems, Inc. DLA+**

6 Click OK

7 Click OK again

Cummins Insite

1 From the PC's desktop, click **Start** then select **All Programs** ▸ **Intelect** ▸ **Cummins INSITE** (or select the **Cummins INSITE desktop** shortcut).

The application screen appears.

2 Click on **File** ▸ **Connections** ▸ **Add New Connection**.

The Connection Wizard screen appears.

3 Click **Next**.

The screen prompts you to select a connection type.

4 Click on the radio button for **RP1210A**.

The screen prompts you to select an RP1210A adapter type.

5 Select **DLA+** for the protocol (seen in the third column) that you wish to use (i.e., J1708 or J1939).

6 Click **Next**. The screen displays with the "Connection Name."

- If you want to change the name in the **Connection Name** box, type in the desired name.

7 Click **Next**.

The screen prompts you to indicate whether you want to make this connection active or set up another connection.

8 Click on the first check box (labeled "*To make this connection active…*").

9 Click **Finish**.

Daimler Trucks North America ServiceLink v4.0

1 From the PC's desktop, click **Start** then select **All Programs** ▶ **Internet Explorer.**
2 Go to **http://www.accessfreightliner.com/**
3 Select **Registered users login** and login with ID and password assigned from Daimler Trucks North America.
4 In **Applications** select **ServiceLink.**
5 Select **Continue to Servicelink 4.0.**
6 Go to **Admin.**
7 Select **Show All Devices.**
8 In **Vendor** dropdown select **DLA+**
9 Select all protocols to connect
10 Press **Save** and connect

Detroit Diesel Diagnostic Link 7

1 From the PC's desktop, click **Start** then select **All Programs** ▶ **Detroit Diesel** ▶ **Diagnostic Link** (folder) **DDDL**
2 Go to **Tools** and then **Options**
3 Go to the **Connection** tab and then select **SID Configure**.
4 Select the **DLA+** device (or if using "JPRO DLA+PLC" select **DLA+PLC**)
5 Select **Apply**.

Detroit Diesel Diagnostic Link 6.xx

1 From the PC's desktop, click **Start** then select **All Programs** ▶ **Detroit Diesel** ▶ **Diagnostic Link** ▶ **DDDL**.
2 Go to **Tools** and then **Options**
3 Go to the **Interface** tab.
4 Select the **DLA+** device (or if using "JPRO DLA+PLC" select **DLA+PLC**)
5 Select **OK**.

DDEC Reports

1 From the PC's desktop, click **Start** then select **All Programs** ▶ **Detroit Diesel** ▶ **Diagnostic Link** ▶ **DDDL**.
2 Go to **Tools** and then **Options**
3 Go to the **Interface** tab.
4 Select the **DLA+** device (or if using "JPRO DLA+PLC" select **DLA+PLC**)
5 Select **OK**.

Eaton Service Ranger

1 From the PC's desktop, click **Start** then select **Programs** ▶ **Service Ranger** ▶ **Service Ranger**.

The application screen appears.

2 Click the **Tools** tab, then **Settings**
3 In the Service Ranger Settings window, click on the **Connection** tab, then select **Noregon Systems Inc. DLA+ (NORCAN32)** in the **Driver** drop down menu.

4 Select **DLA+ DLA+ (CAN, J1939, J1708)** for the **J1708** Device.

5 Select **DLA+ DLA+** then select the correct **CAN** setting for your connection.

6 Click **OK,** Then click **Connect**

Haldex Trailer ABS Diagnostics

1 Click **Start** then select **All Programs** ▶ **Haldex Trailer ABS Diagnostics**.
2 Press F7 or select the configure button.
3 For device, select **DLA+ PLC**.
4 Press **OK** and connect.

International Diamond Logic Builder

1. From the PC's desktop, click **Start** then select **Programs** ▶ **Diamond Logic Builder**
2. Click on the **Tools** menu, then select **Select Com Link**
3. Select **Noregon Systems** (the one with DLA+ listings)□ Select **DLA+**

International ServiceMAXX

1. From the PC's desktop, click **Start** then select **Programs** ▶ **ServiceMaxx**
2. Click on the **Tools** menu, then select **Select Com Link**
3. Select **Noregon Systems** (the one with DLA+ listings)□ Select **DLA+** (for the correct protocol)

Meritor WABCO PC Diagnostics

1. From the PC's desktop, click **Start** then select **All Programs** ▶ **Meritor WABCO** ▶ **Meritor WABCO PC Diagnostics**.
2. Click on the **System Setup** menu item, and then select **COM Port**.
3. Under **Vendor**, click on the drop-down list box, then select **Noregon Systems, Inc**. **DLA+PLC**
4. Under **Protocol**, select the desired protocol.
5. Under **Device**, click on the drop-down list box, and then select **DLA+PLC** (or **DLA+**).
6. Click **OK**.

Volvo PTT/VCADs Pro

1. From the PC's desktop, click **Start** then select **All Programs** ▶ **Premium Tech Tool**
2. In PTT, Select **Menu** and the **Settings**.
3. Go to the **Comm.unit Selection** tab and select **RP1210 adapter** for the **Communication units** setting.
4. Go to the **Communication Unit Configuration** tab and select **RP1210A** for the communication unit.
5. For the device, select **DLA+** or if using **DLA+ PLC** select **DLA+PLC**.

6 Verify device ID is 100 and Protocol is 1708.
7 Click **OK** and **connect/refresh**.

ZF Meritor Transoft

1 From the PC's desktop, click **Start** then select **All Programs ▸ ZF Meritor ▸ Transoft ▸ Transoft**.
2 Select **Communication Setup.**
3 For Vendor, select **Noregon Systems, Inc. DLA+.** For J1708 and J1939, select **DLA+.**
4 Click **OK**.

To test the connection to Vehicle:

J1708 Test Application

1. From the PC's desktop, click **Start** then select **All Programs** ▸ **Noregon** ▸ **JPRO DLA+ Adapter** ▸**Test Application**
2. In the application select device as **DLA+** and for protocol select **1708**
3. Press connect and verify 0 as the return code (If you get 142 the device is not installed or connected properly)
4. In the send command section press **Pass**
5. In Read Message section press **Read Continuous** that should show you all of the data coming across the 1708 data bus.

J1939 Test Application

1. From the PC's desktop, click **Start** then select **All Programs** ▸ **Noregon** ▸ **JPRO DLA+ Adapter** ▸**Test Application**
2. In the application select device as **DLA+** and for protocol select **1939**
3. Press connect and verify 0 as the return code (If you get 142 the device is not installed or connected properly)
4. In the send command section press **Pass**
5. In Read Message section press **Read Continuous** that should show you all of the data coming across the 1939 data bus.

Frequently Asked Questions and Troubleshooting

NOTE: Check the Support section of the www.JPROFleetProducts.com website for the latest FAQs and Troubleshooting steps.

Question	POSSIBLE CAUSES	SOLUTION
The adapter power light is on but my application isn't communicating.	The drivers have not been installed	Check to see that the appropriate drivers were installed
	The drivers have been installed , but the Add Hardware Wizard has not run.(Windows XP/2000 only)	Follow the *Installation* instructions on page 13.
	The connection settings are incorrect	Check to see that the connection settings are correct
	The cables are not connected	Check to see if the cables are securely connected
	The vehicle ECU is not powered up	Check to see that the vehicle ignition is on
	Voltage to the adapter is not sufficient	Check to see that a minimum of 8.5V? is being supplied
How do I know when the adapter is		The data light will flash continuously when communication has be

communicating?		established.
Will the adapter read codes?		The adapter alone will not read codes. You will need Fleet Diagnostics or an OEM application to do so.
What applications come with the adapters?		Only the drivers are provided as part of the Adapter kit, any applications must be purchased separately.
Will the adapter adjust parameters?		In order to do parameter adjustments the OEM application must be used along with our adapter.
Will the adapter work with my software.		Check to see if the application is on the list of supported applications and check the setup instructions that came with your application for guidance.
What is the warranty process?		See our warranty section for instructions

Technical Support

For additional support for connecting your adapter via other protocols, diagnostic applications, speeds, etc., please contact Noregon Systems Help Desk using one of the following:

E-mail: support@noregon.com

Online: http://www.JPROFleetProducts.com/

Phone: 336-970-5567
Support available between the hours of 8:00 AM - 6:00 PM EST