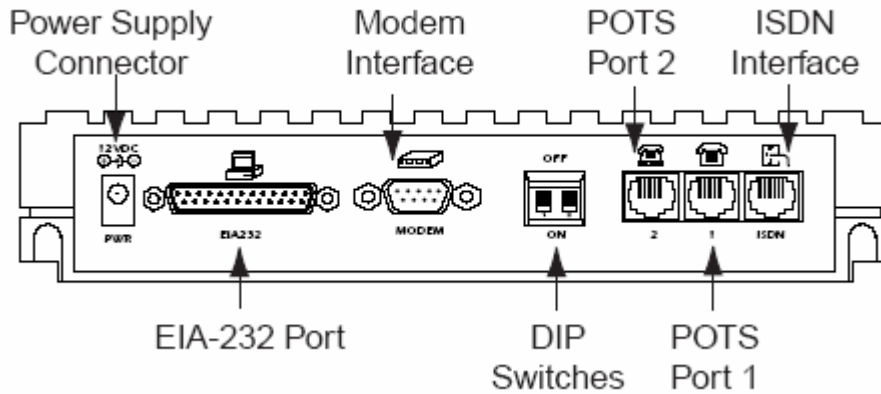


## HOW TO CONFIGURE THE ADTRAN EXPRESS 3000 WITH HYPERTERMINAL



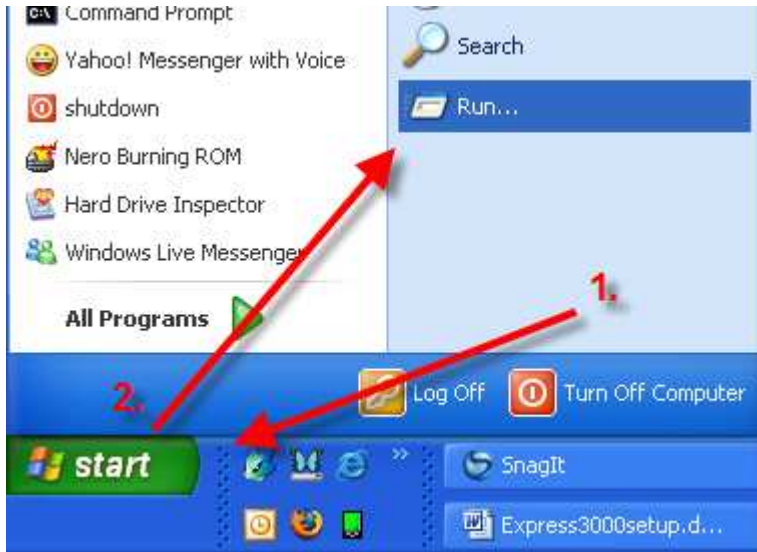
Before you begin, connect your Express to your computer. Also connect your ISDN interface (line from the phone company) and power connector.

Use a serial connector to connect the Adtran to your computer's serial port. (Belkin part No. F2L088-10)

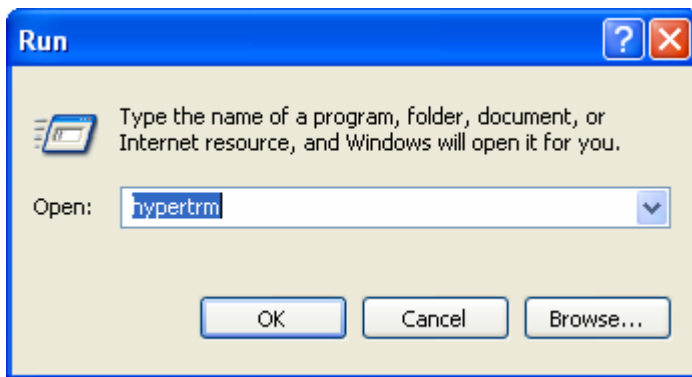
Once your modem is properly connected, restart your computer and proceed with the instructions. If your Windows machine will not detect the Express, refer to the "Installing the Express" guide from Tech Support.



Note: If you see this icon in your task bar, close it by right clicking and selecting exit. This will prevent you from opening and using Hyperterminal.



1. Click on the Start button
2. Click on Run



3. Type in hypertrm as shown in the dialog box to the left.

Note: If Hyperterminal does not open, go to Start > Program Files (or All Programs) > Accessories > Communications > Hyperterminal.

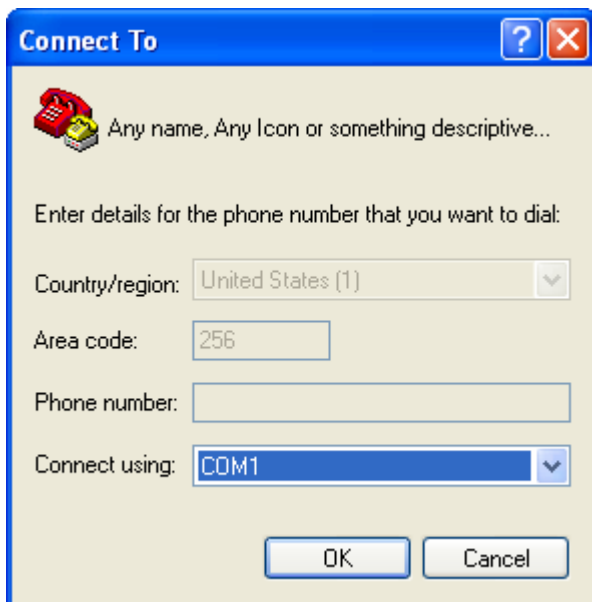
If Hyperterminal is not present, you may have to download it and install it to your PC. Go to the following website to download Hyperterminal or search for it using your favorite web searching utility:

<http://www.hilgraeve.com/htpe/htpe63.exe>

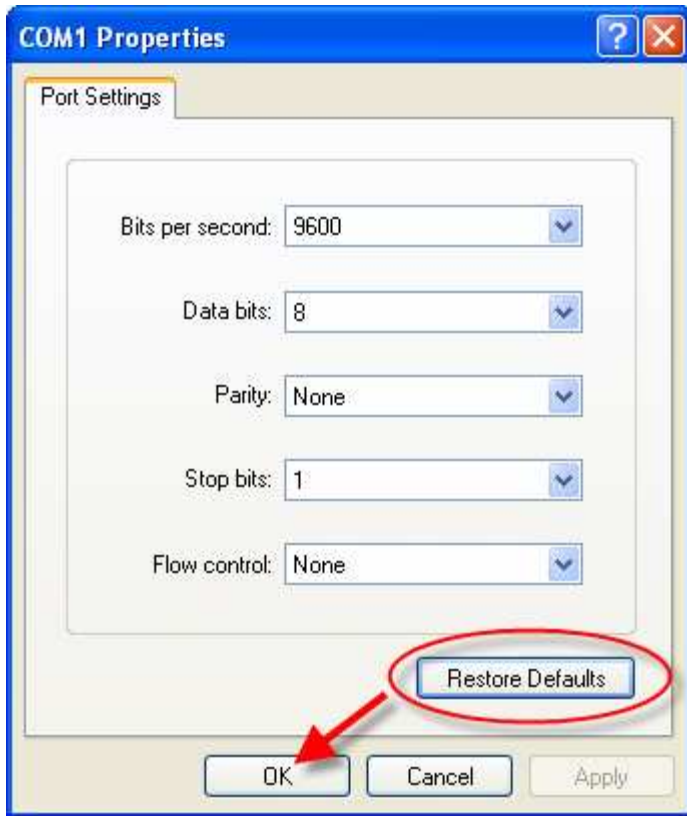


Once you open Hyperterminal, it may ask if you wish to use it as your default terminal program. Acknowledge “yes” to this prompt.

4. In the description box, enter any name and pick any icon. This value does not matter.



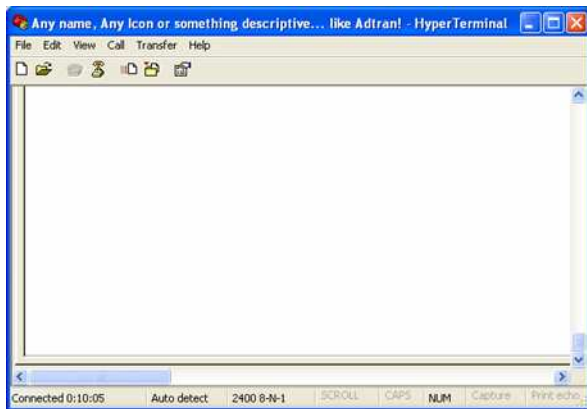
5. In the “connect to” dialog box, disregard the Area code and phone number settings. In the “connect using” pull down box, select COM1 or the COM port that your Express is attached to. If you are unsure and there is more than one COM port listed, select COM1 first.



6. Next you will configure your COM Properties.

Normal settings are:  
9600 bits per second  
8 Data bits  
Parity None  
Stop Bits 1  
Flow Control None

If you are using the most recent version of Hyperterminal, click the Restore Defaults button for the correct settings.



7. After you click OK, you will see a screen similar to the one on the left... blank. Any characters typed here will not show up, however they being transmitted to the device.
8. Type in **ate1** and press **enter** to see characters typed in.

**NOTE:** If you type in the command above and press enter but there is no response, communication with the Express may not be complete. This could be due to improper COM port selection or physical cable connections.

The command used in step 8 is known as an “AT” command. This command is one of the many AT commands that can be used to configure your Express. While many of them are ambiguous, the proper usage can be used to configure every function of the Express. This guide will only touch on a couple AT commands. When troubleshooting with Adtran Tech Support you may be required to use similar AT commands in a similar manor.

```

Any name, Any Icon or something descriptive... like Adtran! - HyperTerminal
File Edit View Call Transfer Help
[Icons]
ats13=1 → press enter
OK
ati → press enter
ADTRAN EXPRESS 3000
OK
at!v_ → press enter to open menu

```

9. After the `atd1` command is executed, commands entered thereafter will be visible. Type in the command **ats13=1**. This command disables auto SPID download.
10. Type in **ati**. This command will prompt you with the name of the device.
11. Type in **at!v**. This command will execute the Express 3000 menu.

```

Express 3000 Configuration Menu
1) Area Code = 256
2) ISDN Phone Number 1 = 9717766
3) ISDN Phone Number 2 = 9717767
4) Auto-Detect SPIDs/Switch = Disabled
5) Switch Type = National ISDN1
6) Call Type = Data 64K
7) SPID 1 = 25697177660101
8) SPID 2 = 25697177670101
9) Auto Answer = Enabled
10) Call Screening = Answer Any
11) Call Routing = Speech/Audio->POTS
12) DTR Options = Ignore DTR
13) Flow Control = Hardware Flow
14) Protocol = PPP Asyn-Sync
15) PPP Mode = PPP
16) AO/DI = Disabled
17) Profiles
18) Configure Remote Unit
19) Remote Num. Password =

Select = _ Enter SELECT Esc NO CHANGE

Ct1-V STATUS Ct1-T TEST Ct1-C CONFIG Ct1-D DIAL Ct1-X EXIT

```

12. Above is a sample picture of a typical Express 3000 configuration. Configure your Express to match the values above. Certain values on your Express will vary; for example, replace the Area Code, ISDN Phone Numbers, Switch Type and SPID numbers to the ones provided by your ISDN phone provider.
13. To make a change to your configuration enter the number of the value you wish to change. For example, if you want to change SPID 1, enter the number 7.

```

7) SPID 1 = 25697177660101 Enter SELECT Esc NO CHANGE
Change SPID 1: _

Ct1-V STATUS Ct1-T TEST Ct1-C CONFIG Ct1-D DIAL Ct1-X EXIT

```

As shown in the picture on the previous page, the prompt at the bottom will change, asking for new information. In this case key in the proper SPID number and press enter to make the change!

Some options will also give you a submenu as shown in the picture below.

```

14) Protocol = _____ Enter SELECT Esc NO CHANGE
   1) PPP Asyn-Sync   4) Fallback
   2) Bonding Mode 1
   3) V.120
_____
Ct1-V STATUS  Ct1-T TEST  Ct1-C CONFIG  Ct1-D DIAL  Ct1-X EXIT
  
```

In this example, we are changing number 14. Protocol. Here you will be give a selection. Simply press the number that corresponds with the desired setting. For example, if you want to change it to PPP Asyn-Sync, press the number 1.

14. If you are using your Express as an internet connection and/or for telephone service, match your Express's configuration for numbers 4 and 9-16.

15. You will also notice at the bottom of the window that there are more menu options, as shown below.

```

_____
Ct1-V STATUS  Ct1-T TEST  Ct1-C CONFIG  Ct1-D DIAL  Ct1-X EXIT
  
```

Pressing the corresponding Ctrl+key sequence will bring up the proper menu. The screen that you start on is the CONFIG menu. Press **CTRL+V** to view the status screen.

```

Express 3000 Status Menu
UNIT/LOOP STATUS          STATUS BUFFER
Call Type                 = Data 64K      1 = EMPTY
DTE Rate                  = 2400        2 = EMPTY
Self Test                 = Passed       3 = EMPTY
Software Rev              = g.03          4 = EMPTY
Checksum                  = ccb4         5 = EMPTY
Serial Number             = F13C0703    6 = EMPTY
Loop Status                = Link Down    7 = EMPTY
Num Dialed                = No Call      8 = EMPTY
RTS                       = On          9 = EMPTY
CTS                       = On         10 = EMPTY
DCD                       = Off        11 = EMPTY
DTR                       = On         12 = EMPTY
                           13 = EMPTY
                           14 = EMPTY
                           15 = EMPTY
                           16 = EMPTY
                           17 = EMPTY
                           18 = EMPTY
                           19 = EMPTY
                           20 = EMPTY
_____
Ct1-V STATUS  Ct1-T TEST  Ct1-C CONFIG  Ct1-D DIAL  Ct1-X EXIT  11:48:00
  
```

The status screen is useful for troubleshooting. On the picture above, the item highlighted in light green

is the Express's software revision. G.03 is the most recent version. If you need to upgrade your express, please go to our web site at [www.adtran.com](http://www.adtran.com) and download the latest revision. Detailed instructions are also included in the download.

The item in light yellow shows the current status of the Express with the telephone company's ISDN switch. This item will correspond with the lights on the front of the unit. When the PWR light is solid green, the loop status should be READY.

On the right side, the item in blue shows the status buffer. This will show information from any attempt to dial out or general status information. To clear to buffer, press the **0** (zero) key.

The two most important menus are the config and status screens, however occasionally, for testing purposes; you may have to use the DIAL menu. This will allow you to manually dial a destination with the Express, rather than through Windows dialup or a telephone. Likewise the TEST menu is generally used when two Express's are connected in a back to back (point to point) situation. These menus are rarely used in configuration or typical situations.

15. Press the **CTRL+X** combination to exit and close the Hyperterminal window. When the window closes it will ask if you wish to disconnect, Click Yes. Also, it will prompt you to save the session. If you say yes, you can save the session settings to your desktop. This will prevent you from having to select your COM port and select Port Settings the next time you use Hyperterminal. Otherwise simply disregard the settings and exit.

This concludes the Express 3000 configuration with hyperterminal. If you have any other questions or concerns, please feel free to contact Adtran Tech Support at [support@adtran.com](mailto:support@adtran.com).