Installation Guide

Before You Begin

The KMD-5569 modem comes factory configured and ready for use. The modem should NOT be reconfigured unless the original settings have been lost.

CAUTION: Do NOT use the USRobotics CD to configure your modem.
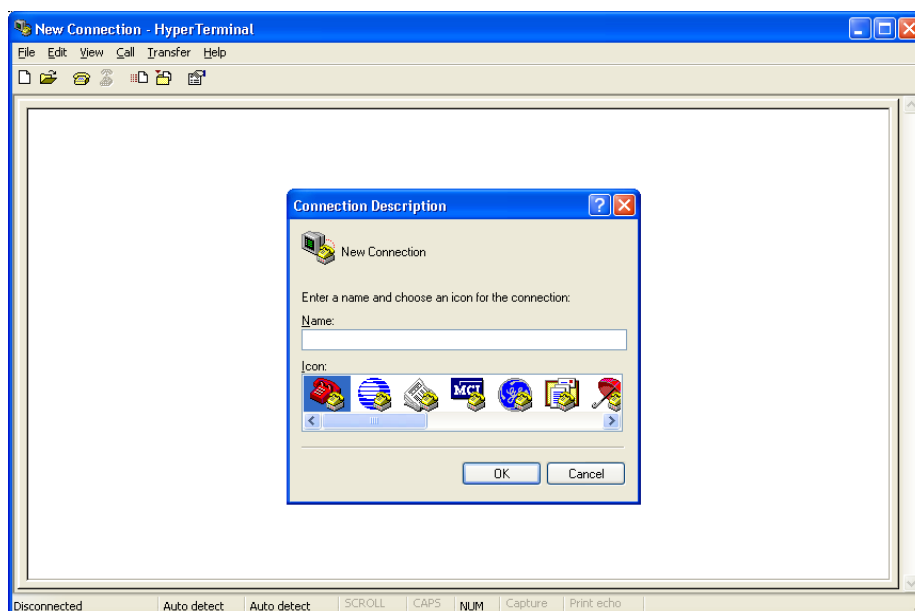
Setup

1. Unpack the modem and set the dip switches on the back as follows:

   - Switches 3, 4, & 8 down (ON)
   - All other switches up (OFF)

2. Connect the modem to the computer using a RS-232 cable.

3. Plug the modem power adapter into the modem. Turn the modem on. When the modem is on, turn on the computer.

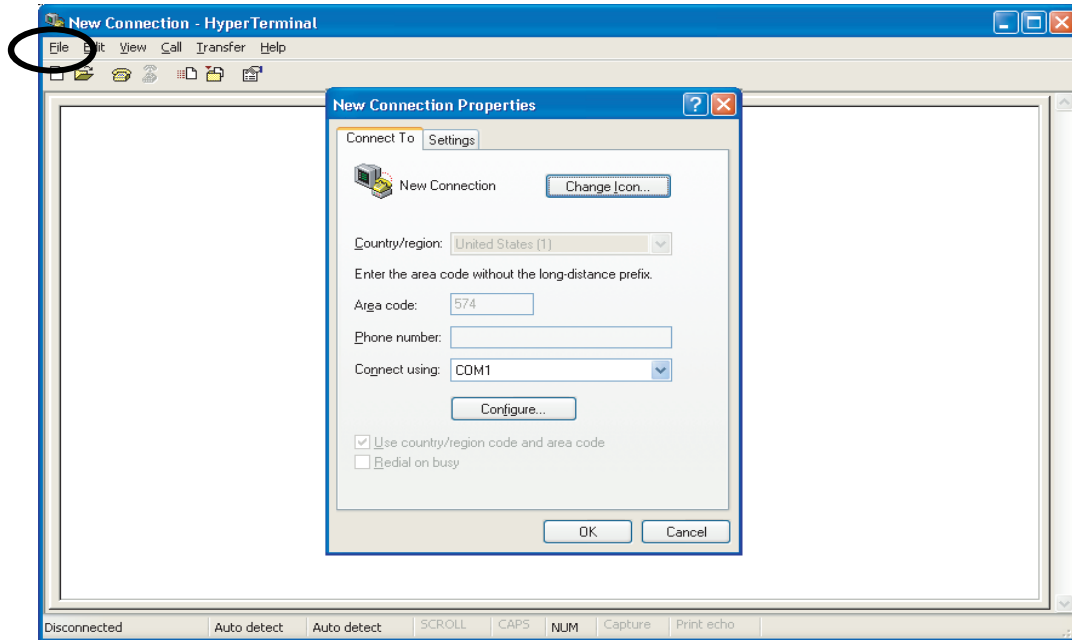   **CAUTION:** Check to ensure you are using the proper power supply.

Configuration

4. Open HyperTerminal from your windows Desktop by clicking **Start** --> **Programs** --> **Accessories** --> **Communications** --> **HyperTerminal**.
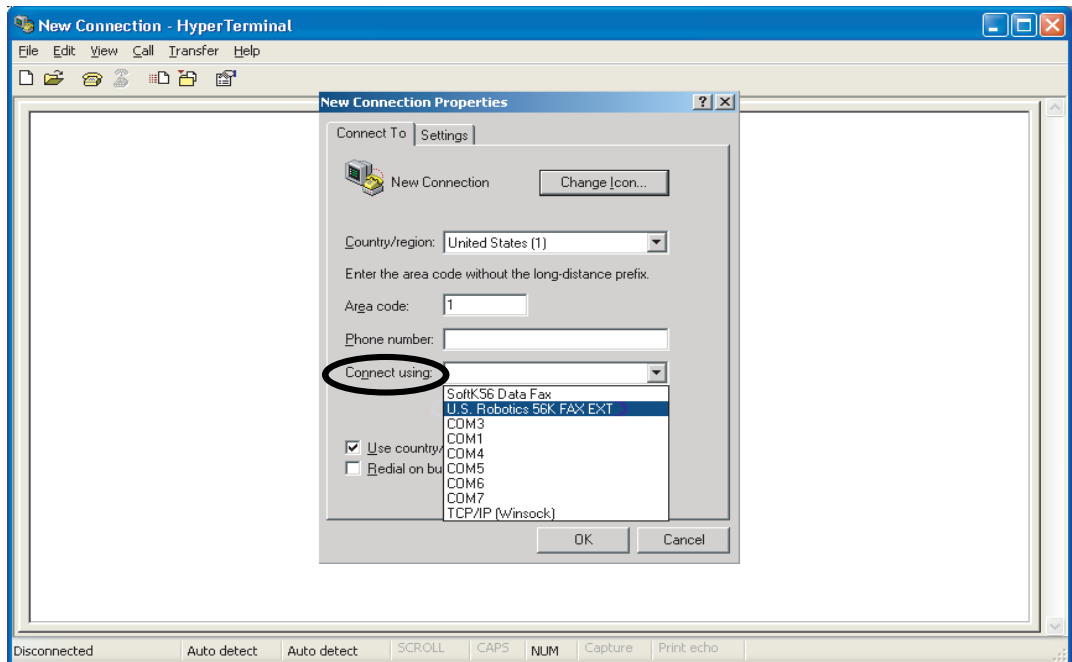

5. Click **Cancel** to remove the Connection Description window.

6. From the menu bar at the top of the window, click **File** --> **Properties**.
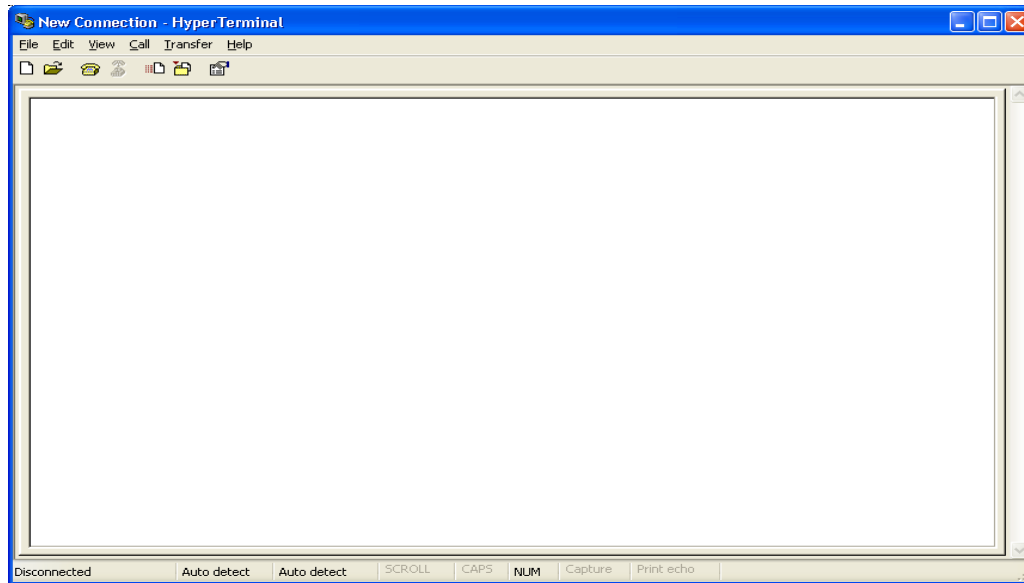

7. Click on the drop down box in the "Connect Using" field and select "U. S. Robotics 56K".

NOTE: If there is more than one USRobotics modem, the KMD-5569 will be identified by the letters "EXT" on the end of its file name.
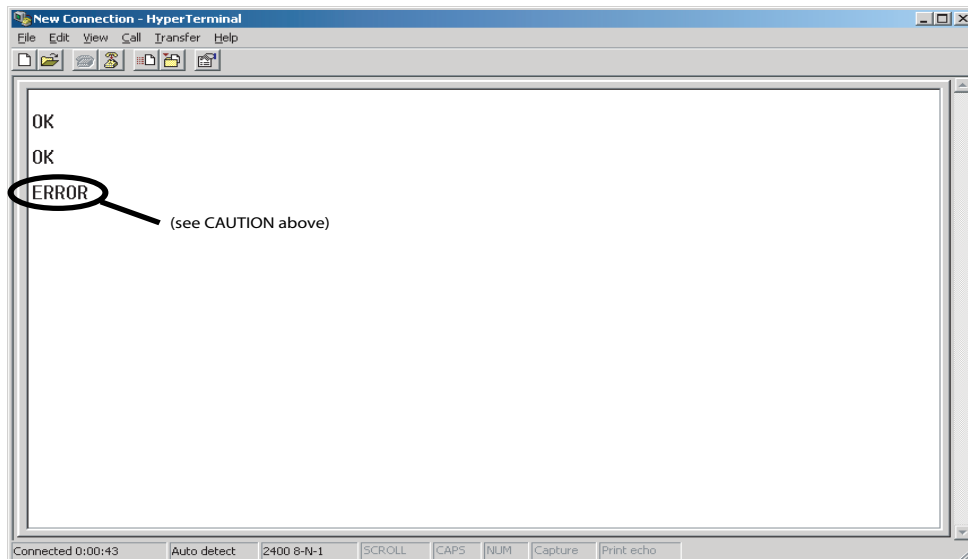
NOTE: If USRobotics drivers have never been installed on your PC, you will not see a selection for the KMD-5569. Instead, select the Com Port (e.g. COM1) that you used to connect the modem to the PC.

8. Click **OK**.

CAUTION: You will not see the entries in Steps 8 & 9 as you type. Be very careful to enter commands EXACTLY as they appear between the quote marks. The screen will display "**ERROR**" if you enter a command it does not recognize.

9. Type "AT&F" to fetch the factory configuration and press enter. The screen should confirm communications by displaying "**OK**" for each entry.

10. Type the following lines <u>IN ORDER</u> and press enter after each one.

"AT&K0" ———— Data compression disabled.

"AT&N10"———— Sets Baud to 19,200 or ("AT&N6" to set for 9600 baud).
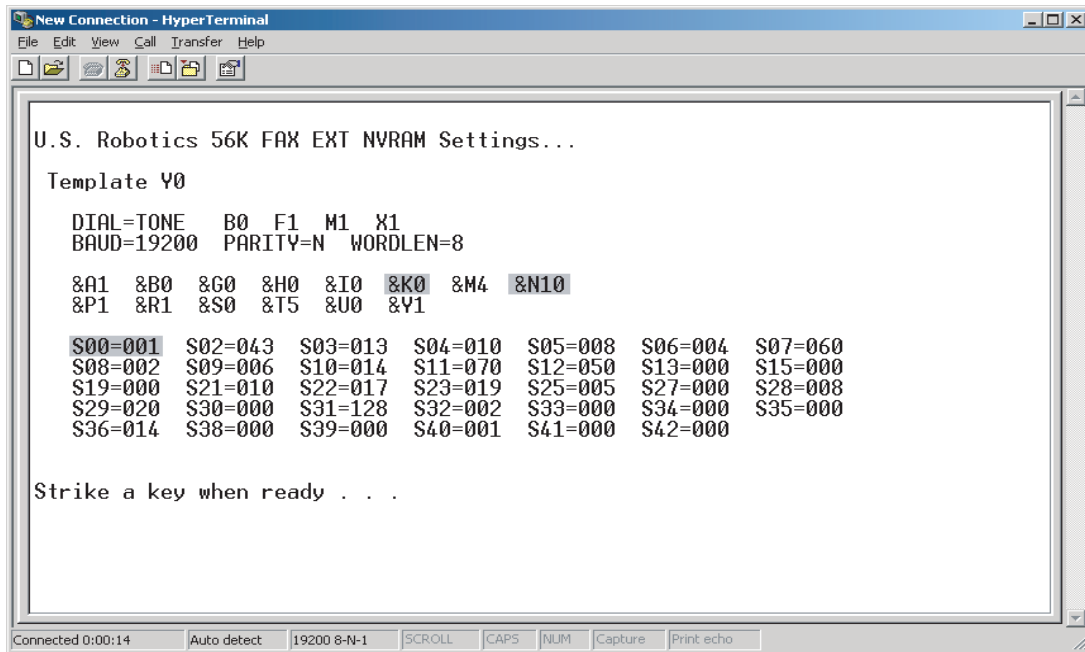
"ATS00=001" ————Number of rings to auto answer, 000 indicates auto answer is OFF.

"AT&W"————— Writes to first stored Profile NVRAM 0.

"AT&W1"———— Writes to second stored Profile NVRAM 1.

NOTE: Make sure the screen confirms each line with "**OK**" when you press enter.
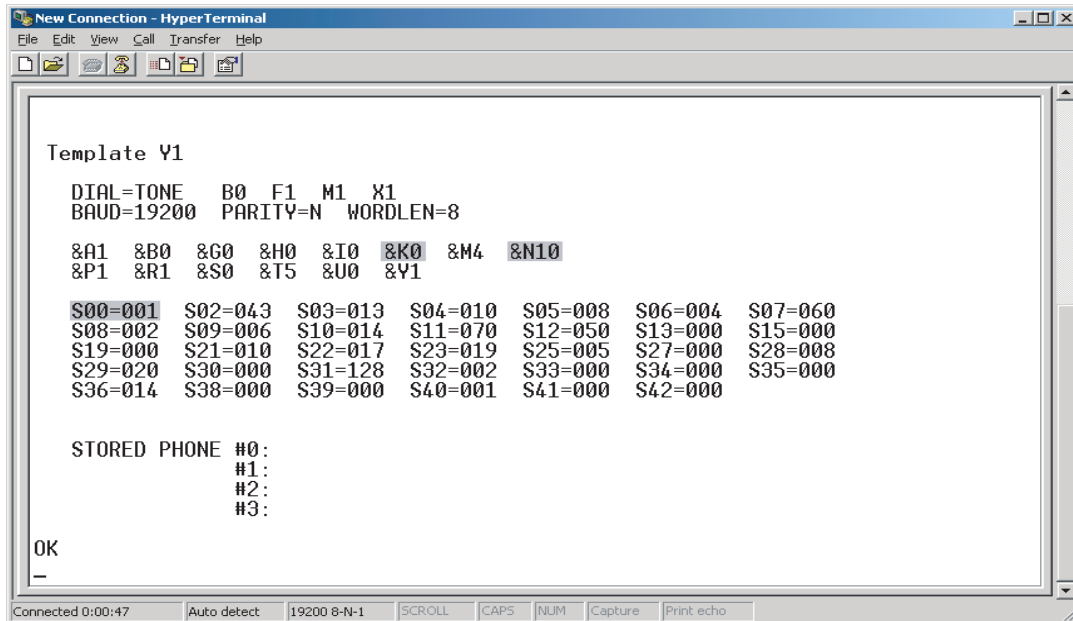
11. Type "ATI5" to view the configuration in the first stored profile (AT&W). Verify that the highlighted parameters match your first three entries in Step 10.

```
New Connection - HyperTerminal
File  Edit  View  Call  Transfer  Help

U.S. Robotics 56K FAX EXT NVRAM Settings...

 Template Y0

    DIAL=TONE   B0  F1  M1  X1
    BAUD=19200  PARITY=N  WORDLEN=8

    &A1  &B0  &G0  &H0  &I0  &K0  &M4  &N10
    &P1  &R1  &S0  &T5  &U0  &Y1

    S00=001  S02=043  S03=013  S04=010  S05=008  S06=004  S07=060
    S08=002  S09=006  S10=014  S11=070  S12=050  S13=000  S15=000
    S19=000  S21=010  S22=017  S23=019  S25=005  S27=000  S28=008
    S29=020  S30=000  S31=128  S32=002  S33=000  S34=000  S35=000
    S36=014  S38=000  S39=000  S40=001  S41=000  S42=000

Strike a key when ready . . .

Connected 0:00:14     Auto detect    19200 8-N-1    SCROLL   CAPS   NUM   Capture   Print echo
```

NOTE: The "AT" prefix does not appear on screen with the data values.

12. Hit any key to scroll down and confirm that the second profile (AT&W1) matches.

```
New Connection - HyperTerminal
File  Edit  View  Call  Transfer  Help

 Template Y1

    DIAL=TONE   B0  F1  M1  X1
    BAUD=19200  PARITY=N  WORDLEN=8

    &A1  &B0  &G0  &H0  &I0  &K0  &M4  &N10
    &P1  &R1  &S0  &T5  &U0  &Y1

    S00=001  S02=043  S03=013  S04=010  S05=008  S06=004  S07=060
    S08=002  S09=006  S10=014  S11=070  S12=050  S13=000  S15=000
    S19=000  S21=010  S22=017  S23=019  S25=005  S27=000  S28=008
    S29=020  S30=000  S31=128  S32=002  S33=000  S34=000  S35=000
    S36=014  S38=000  S39=000  S40=001  S41=000  S42=000

    STORED PHONE #0:
                 #1:
                 #2:
                 #3:
OK
_

Connected 0:00:47     Auto detect    19200 8-N-1    SCROLL   CAPS   NUM   Capture   Print echo
```

13. To exit the program, first hang-up by clicking the telephone icon in the Tool Bar at the top of the page, then click **File** --> **Exit** from the menu bar.

You may now test the connection using WinControl XL.

Diagnostic

When using HyperTerminal (see Step 4) and a US Robotics modem in terminal mode you can type "ATI6" after connecting to see the statistics for the last attempted or successful connection.

EXAMPLE:

```
New Connection - HyperTerminal                                              _ □ ×
File  Edit  View  Call  Transfer  Help

U.S. Robotics 56K FAX EXT Link Diagnostics...

Chars sent              7898     Chars Received          351316
Chars lost                 0
Octets sent             7898     Octets Received         351316
Blocks sent             2054     Blocks Received          20909
Blocks resent              0

Retrains Requested         0     Retrains Granted             0
Line Reversals             0     Blers                        0
Link Timeouts              0     Link Naks                    0

Data Compression      NONE
Equalization          Long
Fallback              Enabled
Protocol              LAPM/SREJ
Speed                 19200/19200
Last Call             00:44:04

Disconnect Reason is DTR dropped

OK

Connected 0:24:53   Auto detect   38400 8-N-1   SCROLL   CAPS   NUM   Capture   Print echo
```

If this number is in the 100's or higher this could indicate a noise issue.

A good connection has less than 20/min or 1200/hour. If you have an excessive number of BLERs there could be a noise issue.

Recieve Speed/Transmit Speed

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