

Installation Guide

Issue Preliminary 1, January 2007

Model 135 Site Monitor

Section One: Network Setup Instructions for Windows 2000 Operating Systems

The following paragraphs contain the steps and figures for direct connection using the supplied Ethernet cross cable between the Ethernet port on the Model 135 Site Monitor and your Windows 2000 computer.

Step 1: Select/click on the Windows Start Button on your computer (Figure 1-1), highlight Settings, and select/click Network and Dial-up Connections (Figure 1-2). Select/double click Local Area Connection (Figure 1-3).

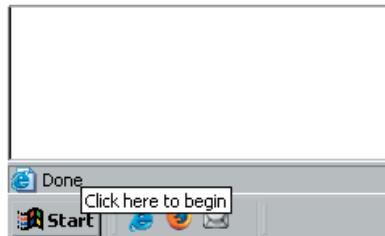


Figure 1-1. Windows 2000 Start Button Screen

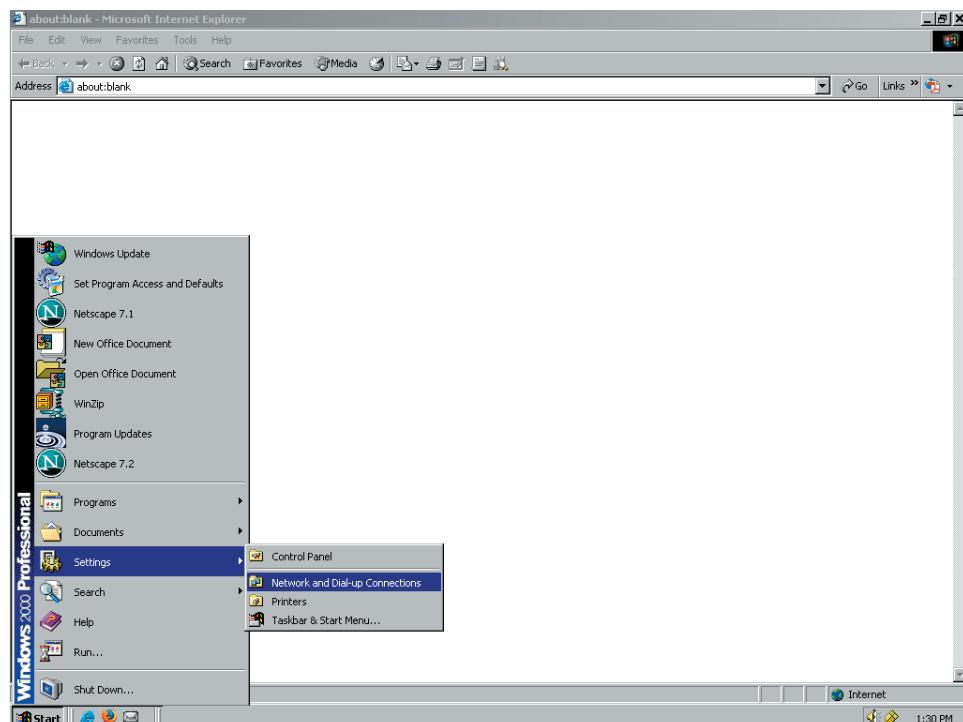


Figure 1-2. Settings and Network and Dial-up Connections Screen

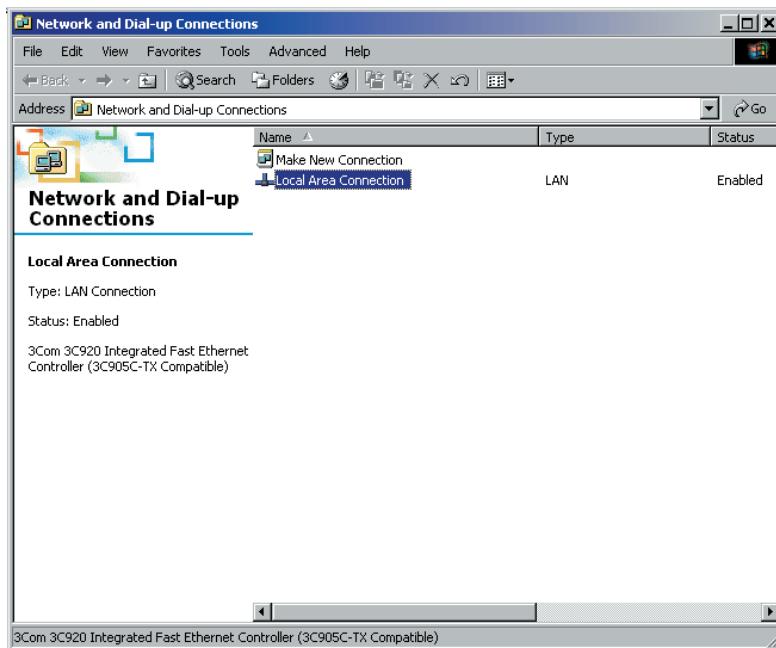


Figure 1-3. Local Area Connection on Network and Dial-up Connections Screen

Step 2: Select/click Properties on the Local Area Connection Status screen (Figure 1-4).

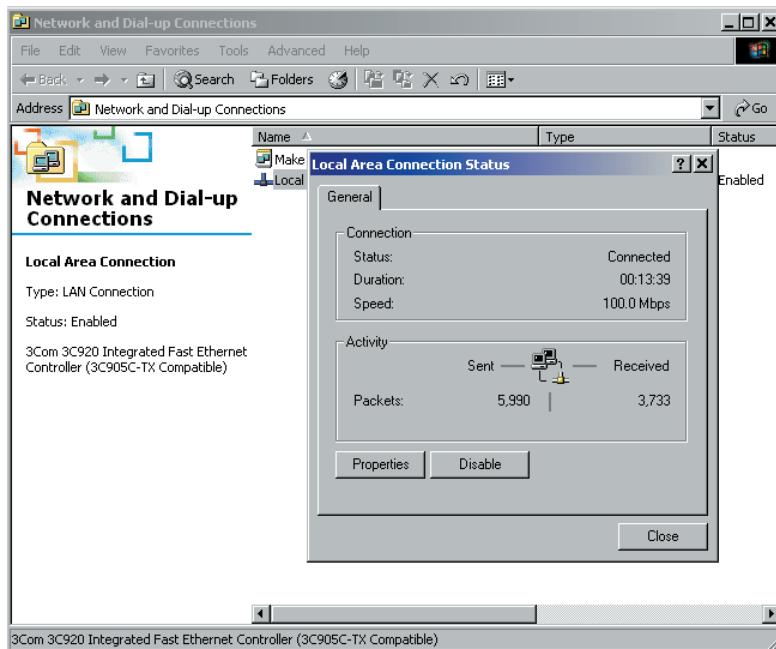


Figure 1-4. Properties, Local Area Connection Status Screen

Step 3: Select/double click Internet Protocol (TCP/IP) from the menu selection (Figure 1-5).

Step 4: Change/select the radio button to “Use the following IP address,” then enter **192.168.1.136** (Figure 1-6). Enter the following subnet mask number **255.255.255.0** (Figure 1-6).

After entering the IP address and subnet mask numbers, click OK. Click OK again on the Local Area Connection Properties screen (Figure 1-5), then click Close on the Local Area Connection Status screen.

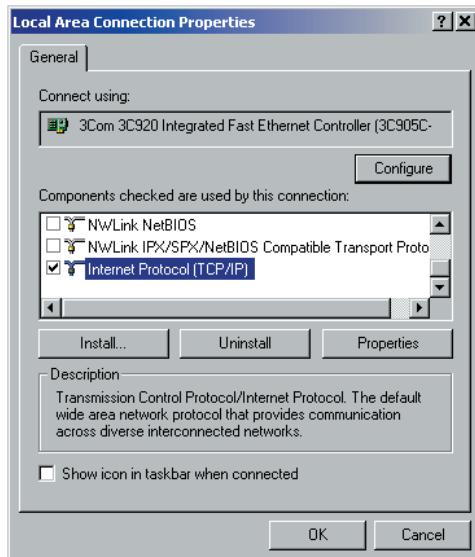


Figure 1-5. Internet Protocol (TCP/IP) Screen

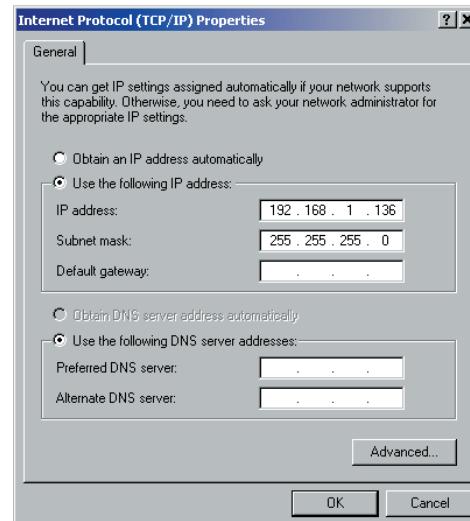


Figure 1-6. Internet Protocol (TCP/IP) Properties Screen

Step 5: Select/click the Windows Start button (Figure 1-1), select the Shut Down option, then option the computer to Shut Down (Figure 1-7). Click OK.

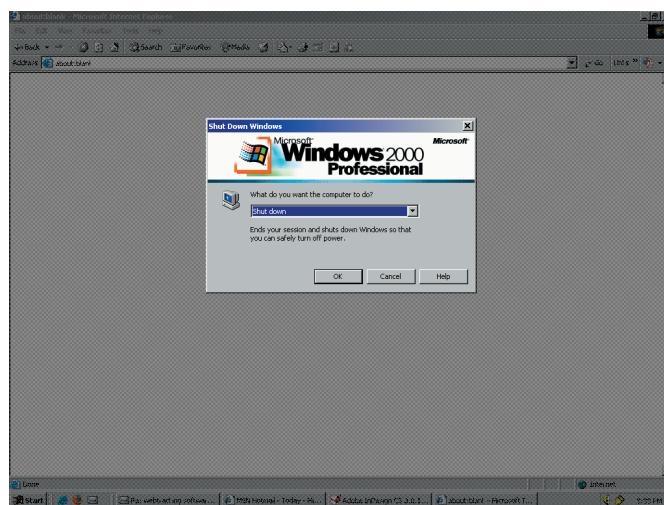


Figure 1-7. Windows 2000 Shut Down Screen

Step 6: Turn computer back on. Upon completion of the computer boot up, open your browser and enter the following default URL address **http://192.168.1.135** to access the Model 135 Site Monitor. An Enter Network Password screen should appear requesting a User Name and Password (Figure 1-8).

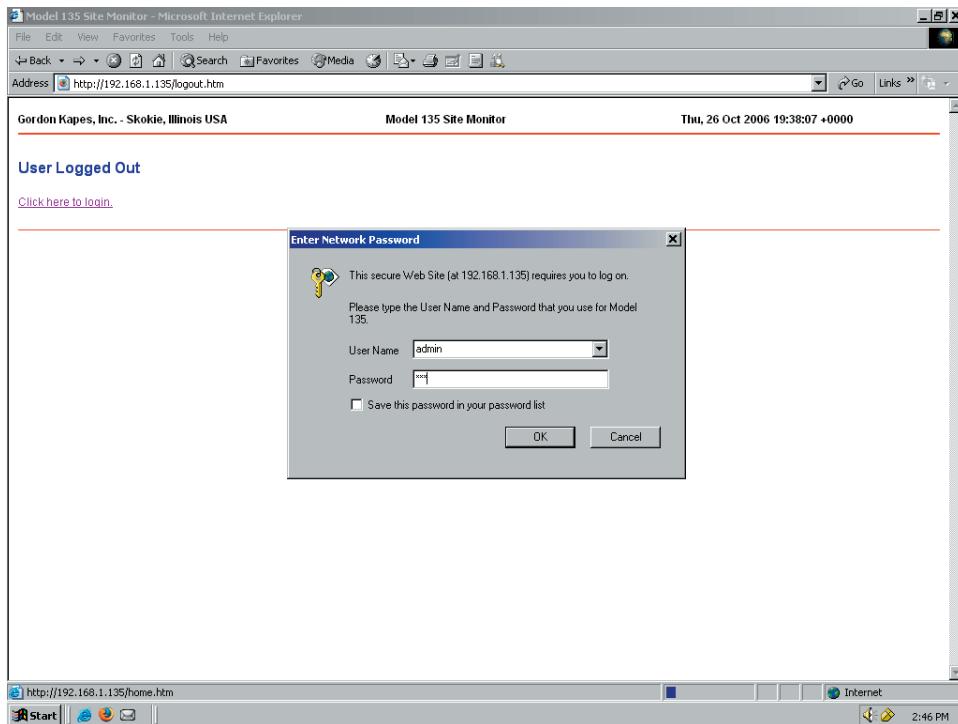


Figure 1-8. Model 135 Enter Network Password Screen

Step 7: Enter the default User Name of **admin** and the default Password of **135** (Figure 1-8). Select/click OK. A successful login will bring you to the Main Menu of the Model 135 Site Monitor Application Program (Figure 1-9). This Main Menu will allow you to navigate throughout the Model 135 Site Monitor menu system allowing you to configure the operating parameters of the Model 135 Site Monitor.

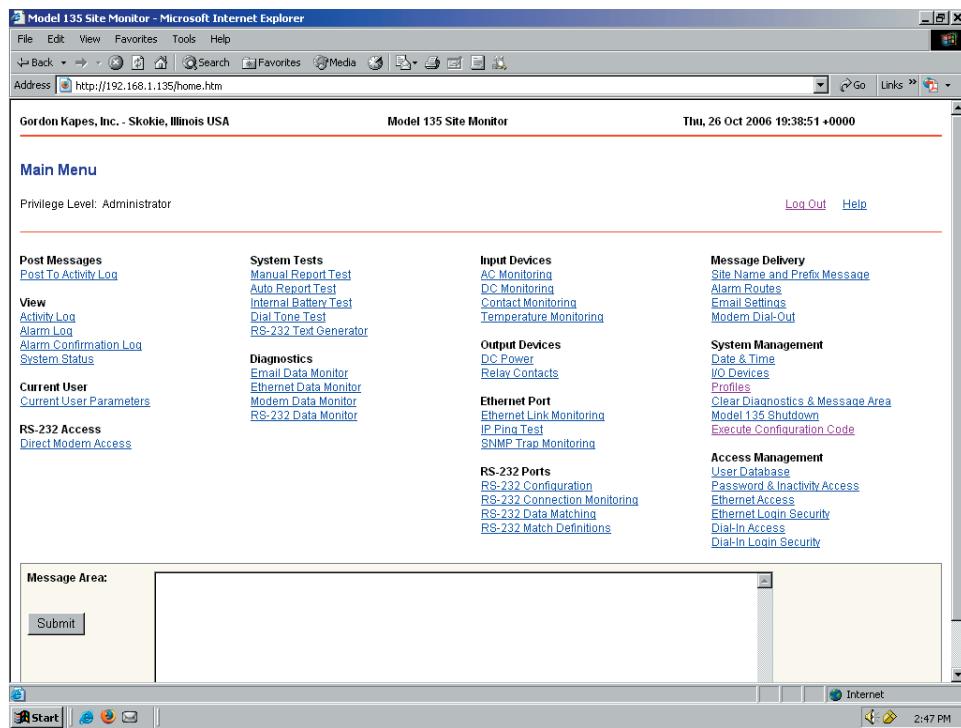


Figure 1-9. Model 135 Main Menu Screen

Step 8: Select Log Out at any time to disconnect from the Model 135 Site Monitor (Figure 1-9 and Figure 1-10).

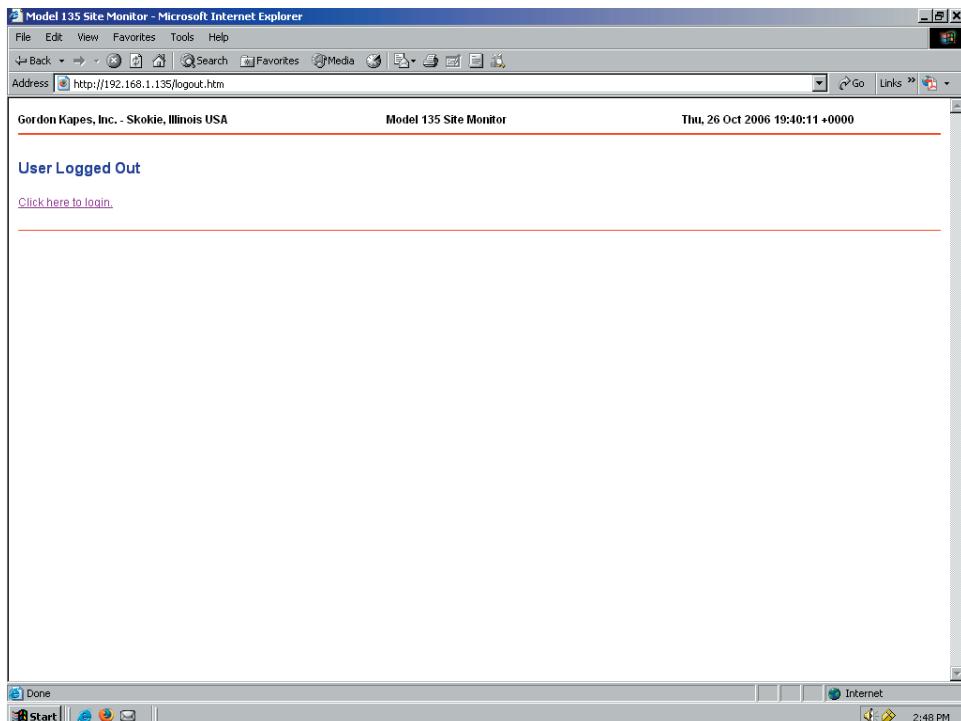


Figure 1-10. Model 135 User Logged Out Screen

Section Two: Network Setup Instructions for Windows XP Operating Systems

The following paragraphs contain the steps and figures for direct connection using the supplied Ethernet cross cable between the Ethernet port on the Model 135 Site Monitor and your Windows XP computer.

Step 1: Select/click on the Windows Start Button on your computer (Figure 2-1). Select/click Control Panel (Figure 2-2), then Network and Internet Connections (Figure 2-3). Select/click Network Connections (Figure 2-4). Select/double click Local Area Connection (Figure 2-5).

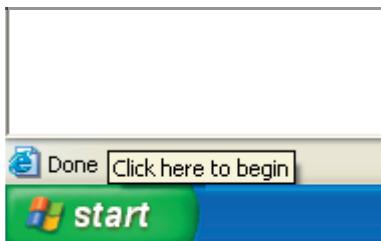


Figure 2-1. Windows XP Start Button Screen

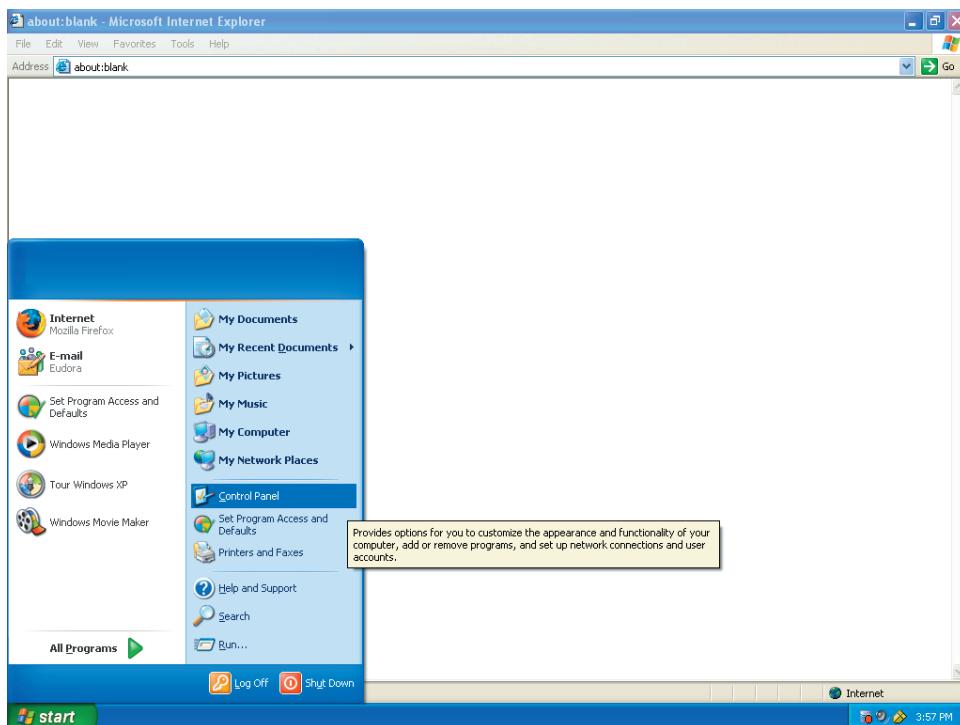


Figure 2-2. Control Panel Screen

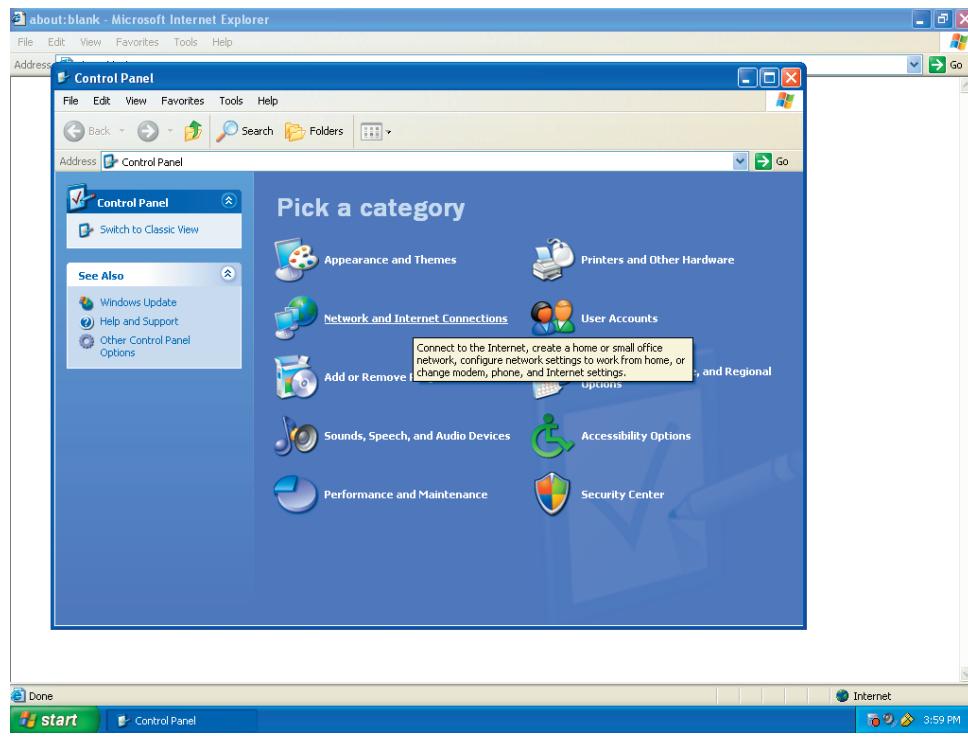


Figure 2-3. Control Panel Network and Internet Connections Screen

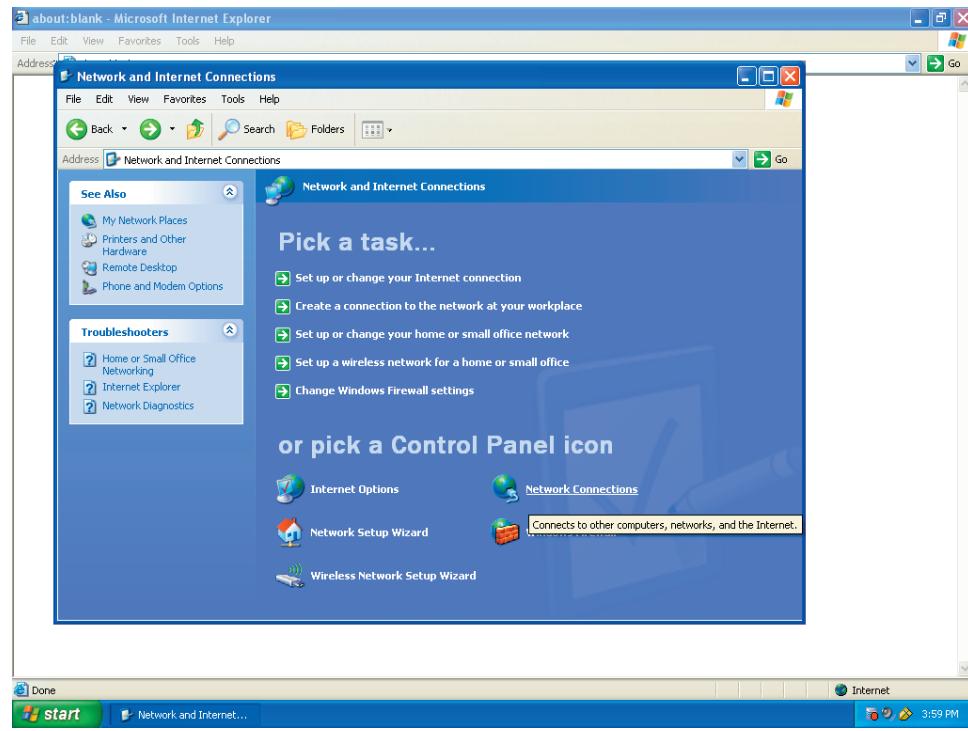


Figure 2-4. Network and Internet Network Connections Screen

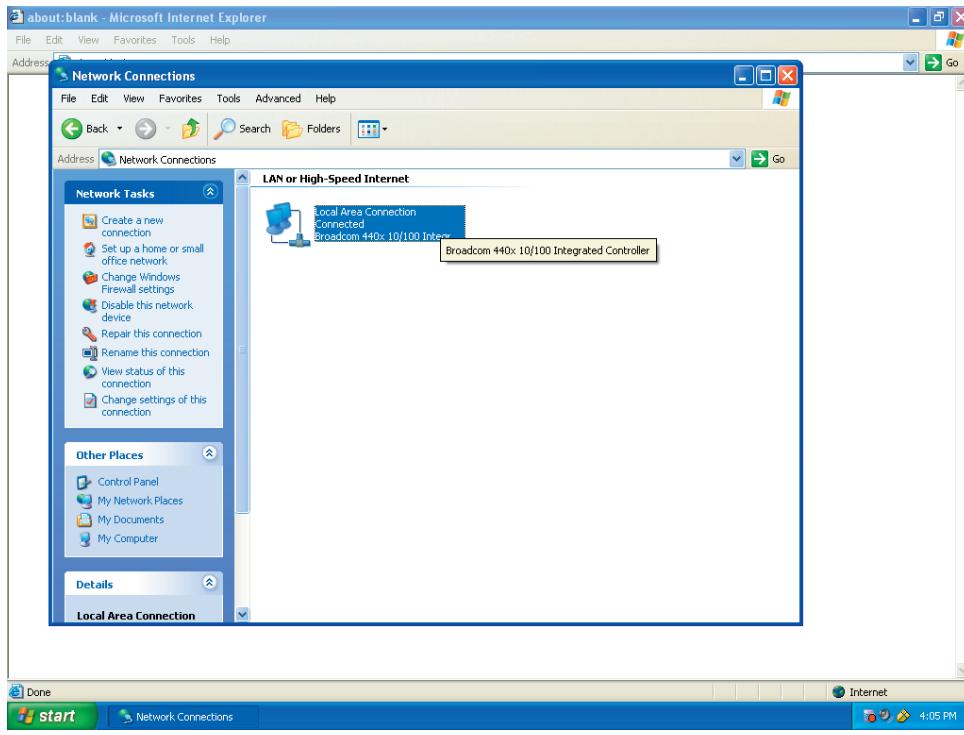


Figure 2-5. Network Connections Local Area Connection Screen

Step 2: Select/click Properties on the Local Area Connection Status screen (Figure 2-6).

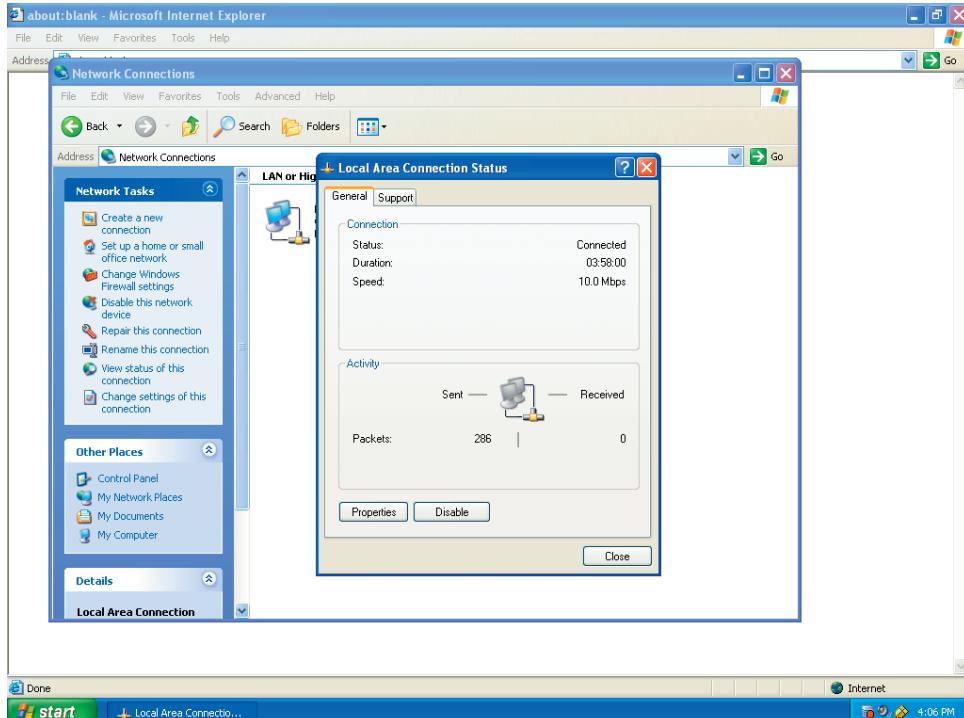


Figure 2-6. Local Area Connection Status Screen

Step 3: Select/double click Internet Protocol (TCP/IP) from the menu selection (Figure 2-7).

Step 4: Change/select the radio button to “Use the following IP address,” then enter **192.168.1.136** (Figure 2-8). Enter the following subnet mask number **255.255.255.0** (Figure 2-8). After entering the IP address and subnet mask numbers, click OK. Click OK again on the Local Area Connection Properties screen (Figure 2-7), then click Close.

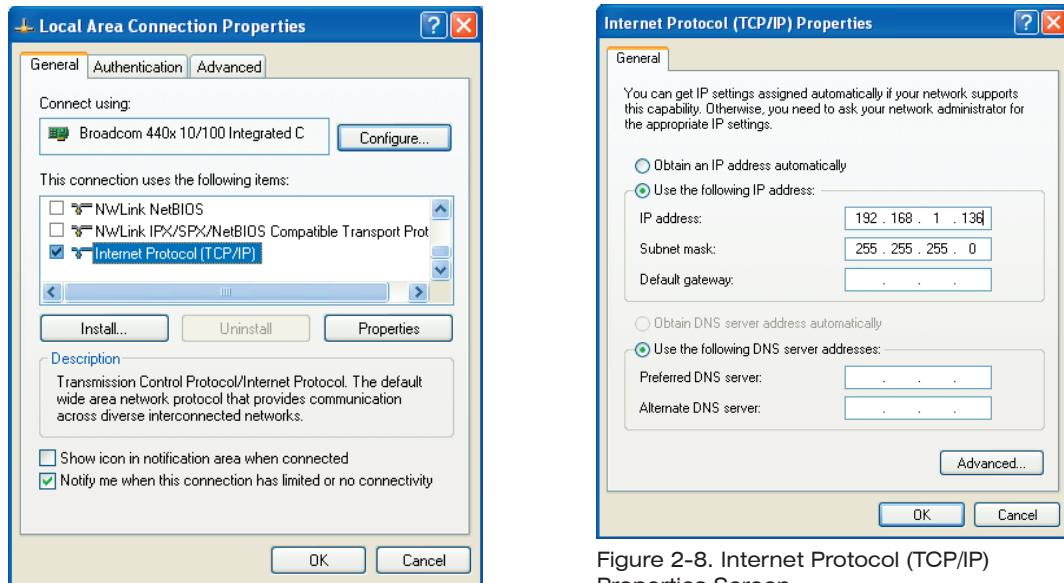


Figure 2-7. Internet Protocol (TCP/IP) Screen

Figure 2-8. Internet Protocol (TCP/IP) Properties Screen

Step 5: Select/click the Windows Start button (Figure 2-1), select the Shut Down option, then option the computer to Shut Down (Figure 2-9). Click OK.

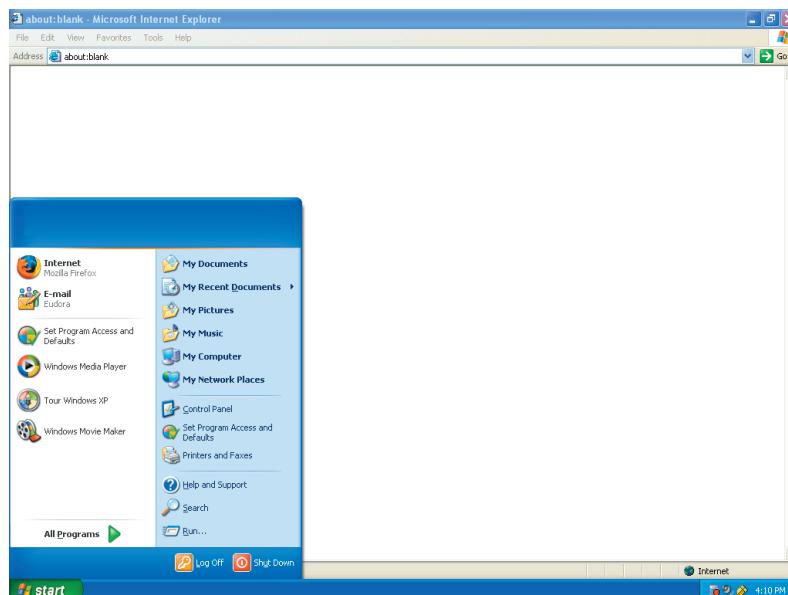


Figure 2-9. Windows XP Shut Down Screen

Step 6: Turn computer back on. Upon completion of the computer boot up, open your browser and enter the following default URL address **http://192.168.1.135** to access the Model 135 Site Monitor. An Enter Network Password screen should appear requesting a User Name and Password (Figure 2-10).

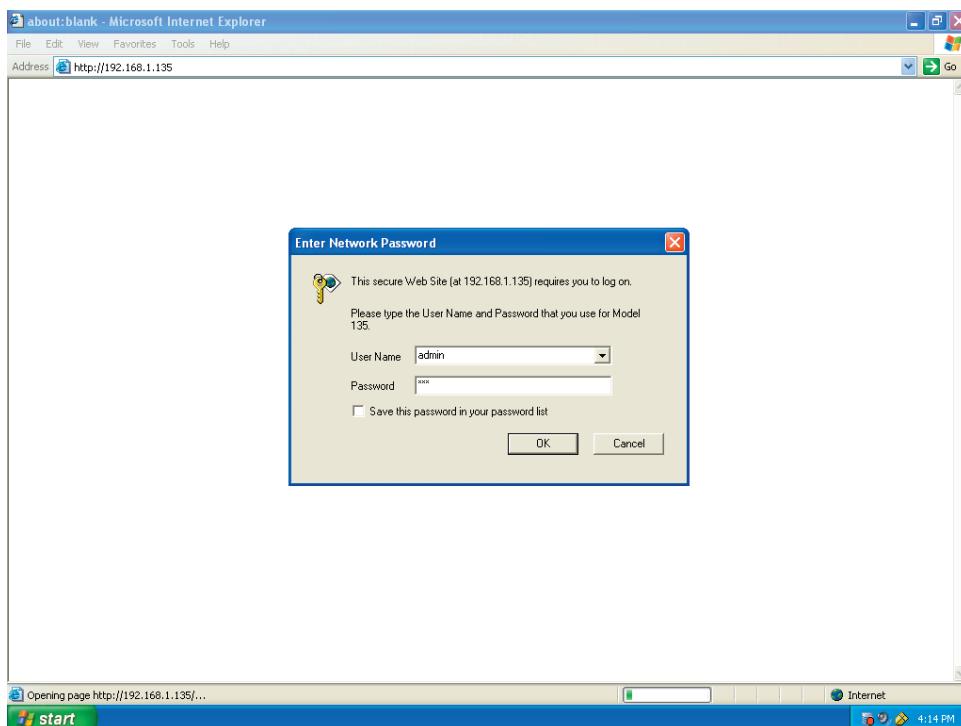


Figure 2-10. Model 135 Enter Name and Password Screen

Step 7: Enter the default User Name of **admin** and the default Password of **135** (Figure 2-10). Select/click OK. A successful login will bring you to the Main Menu of the Model 135 Site Monitor Application Program (Figure 2-11). This Main Menu will allow you to navigate throughout the Model 135 Site Monitor menu system allowing you to configure the operating parameters of the Model 135 Site Monitor.

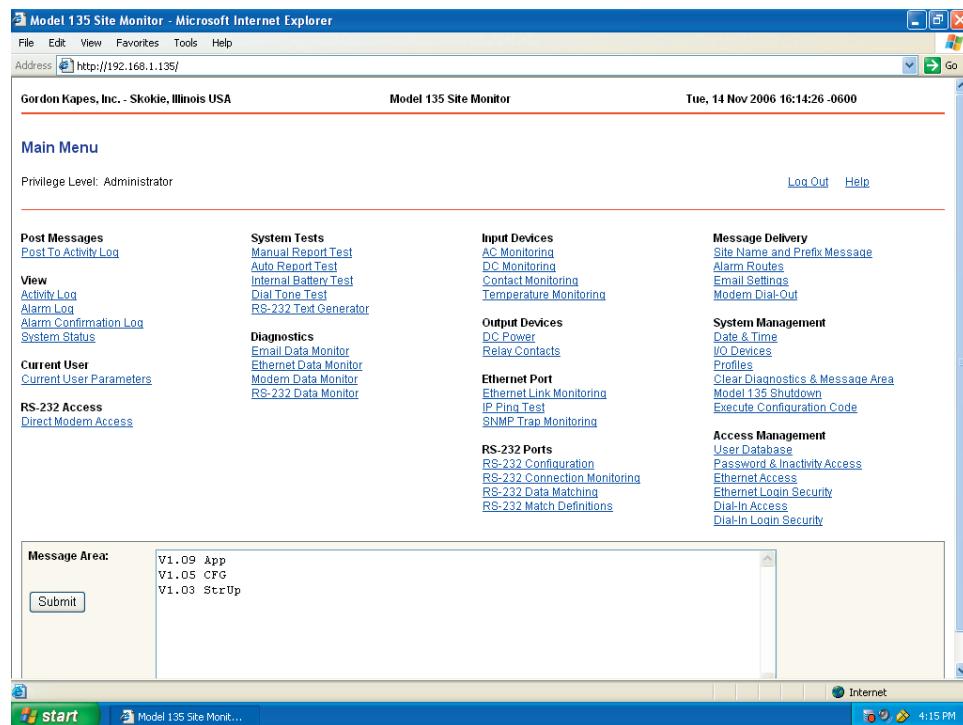


Figure 2-11. Model 135 Main Menu Screen

Step 8: Select Log Out at any time to disconnect from the Model 135 Site Monitor (Figure 2-11 and Figure 2-12).

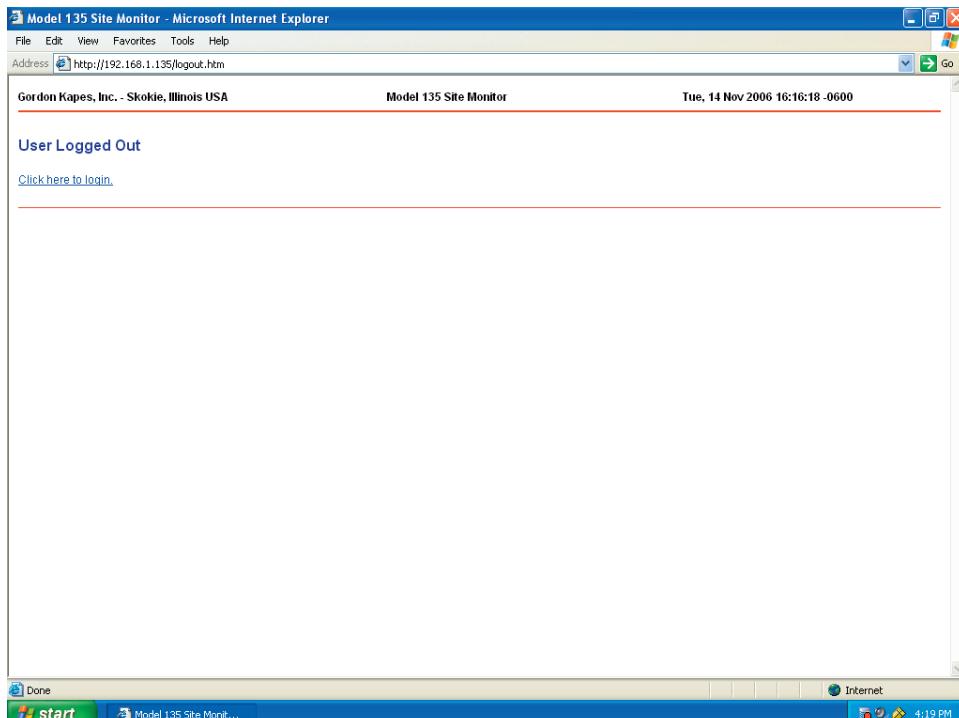


Figure 2-12. Model 135 User Logged Out Screen

Section Three: Network Setup Instructions for Mac OS X Operating Systems

The following paragraphs contain the steps and figures for direct connection using the supplied Ethernet cross cable between the Ethernet port on the Model 135 Site Monitor and your Mac OS X computer.

Step 1: Select/click the Apple icon in the upper-left corner of the screen (Figure 3-1), highlight System Preferences (Figure 3-1), and select/click Network under the Internet & Network section (Figure 3-2). Click to highlight Built-in Ethernet (Figure 3-3), then click the Configure button.



Figure 3-1. Mac OS X Apple Icon with System Preferences Highlighted



Figure 3-2. System Preferences Screen

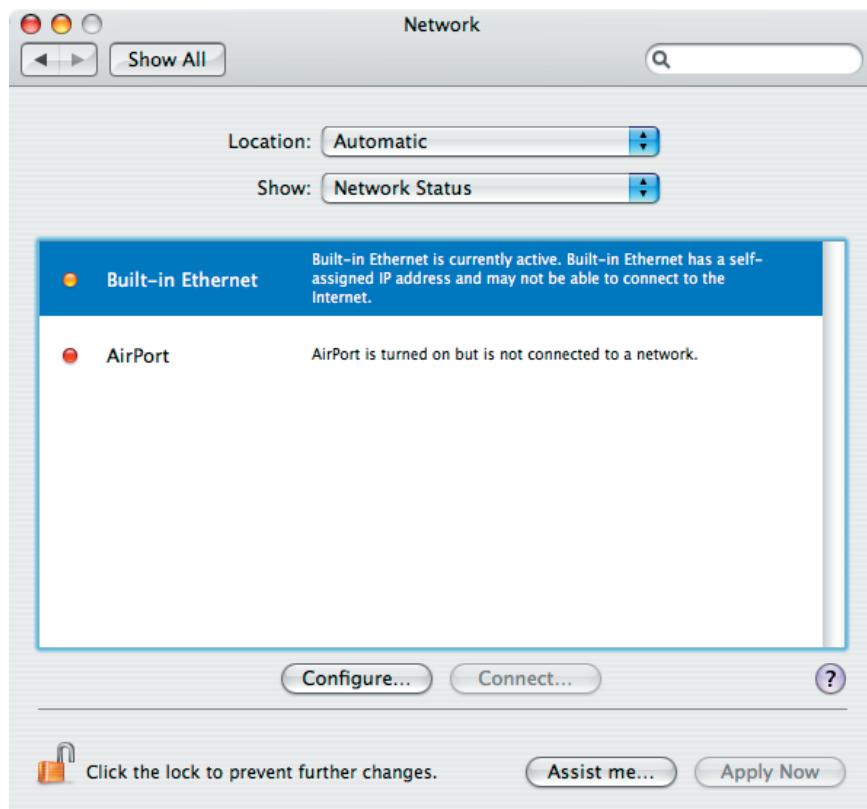


Figure 3-3. System Preferences Network Screen with Built-in Ethernet Highlighted

Step 2: Click to highlight TCP/IP on the Network screen (Figure 3-4).

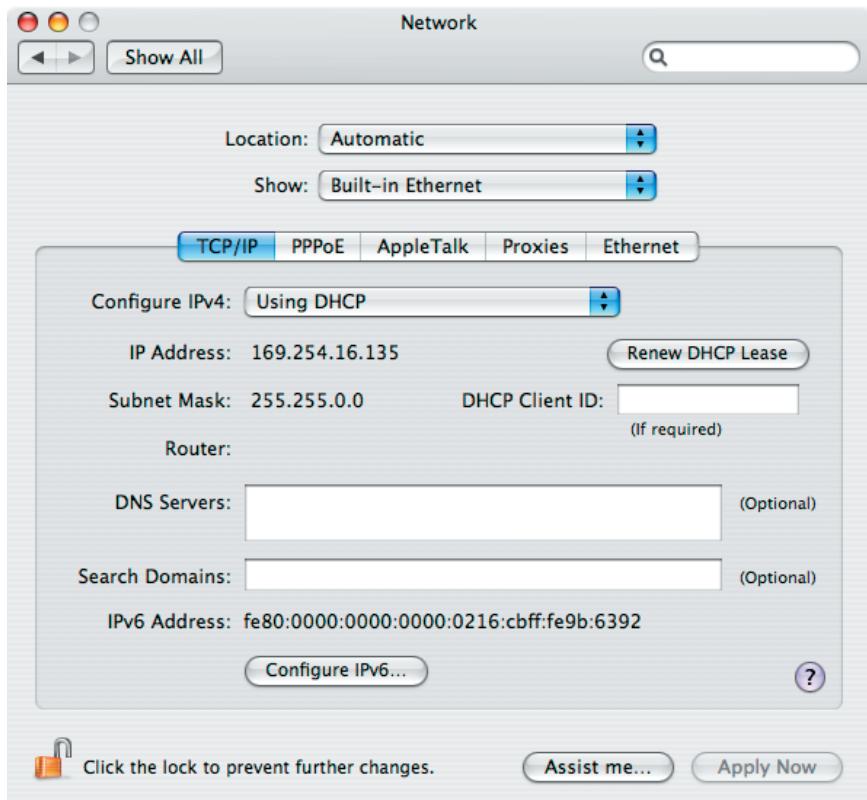


Figure 3-4. System Preferences Network Screen with TCP/IP Highlighted

Step 3: Under Configure IPv4 click Manually from the menu selection (Figure 3-5).

Step 4: Enter **192.168.1.136** (Figure 3-6). Enter the following subnet mask number **255.255.255.0** (Figure 3-6).

After entering the IP address and subnet mask numbers, click Apply Now. Close the screen by clicking the red circle in the upper-left corner of the screen.

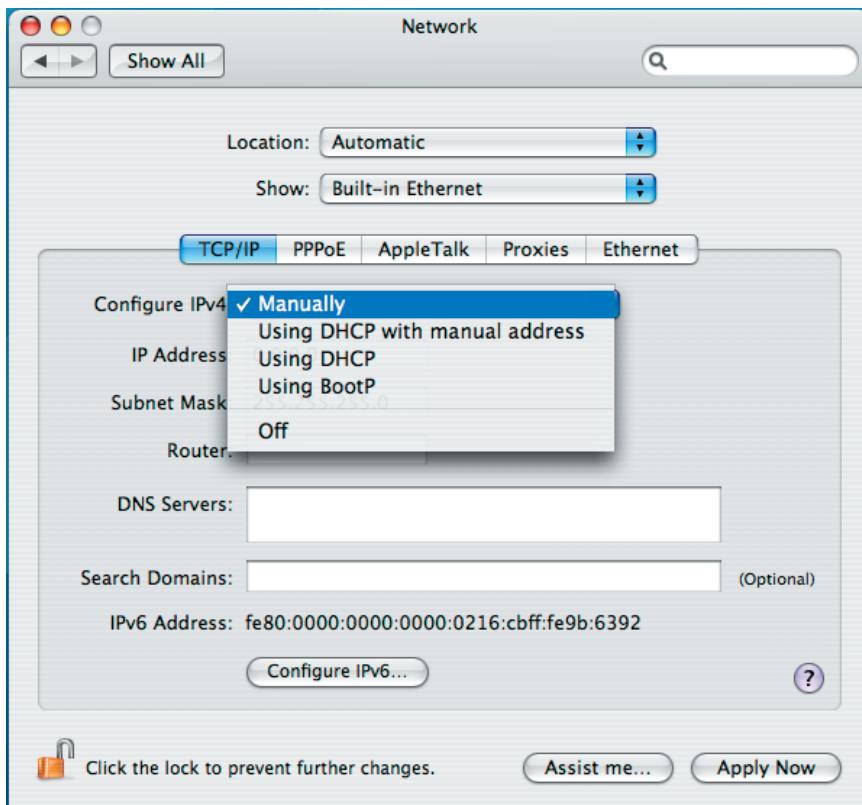


Figure 3-5. Configure IPv4 Menu Selection on the TCP/IP Setup Screen

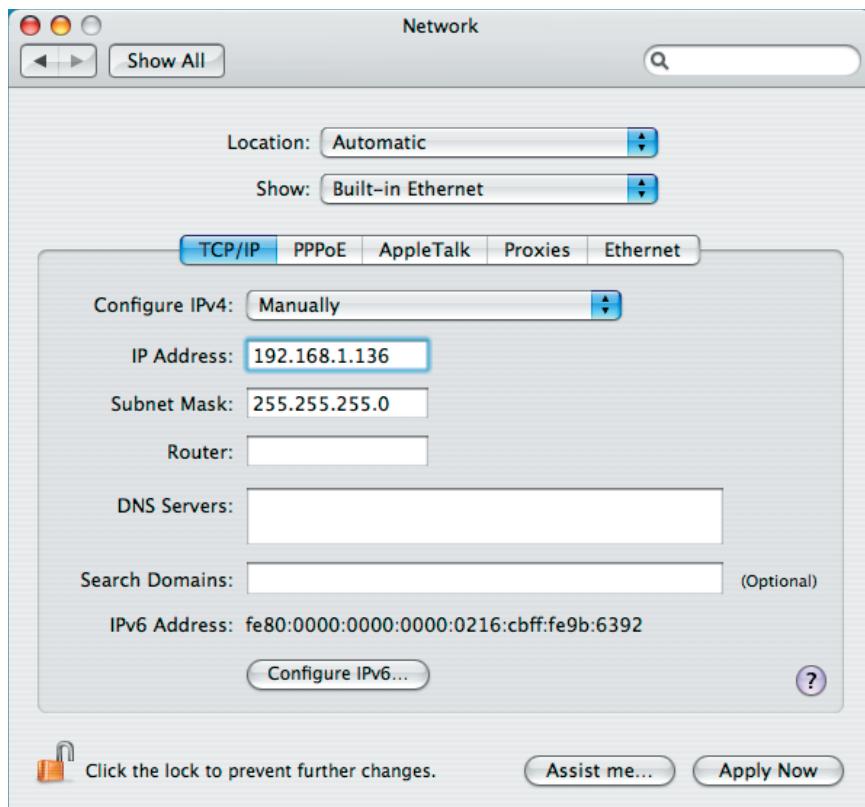


Figure 3-6. Configure IPv4 Menu Selection on the TCP/IP Setup Screen

Step 5: The computer does not need to be shut down or rebooted for the changes to take effect.

Step 6: Open your browser and enter the following default URL address <http://192.168.1.135> to access the Model 135 Site Monitor. An Authentication Required screen should appear requesting a User Name and Password. Enter the default User Name of **admin** and the default Password of **135** (Figure 3-7). Select/click OK.

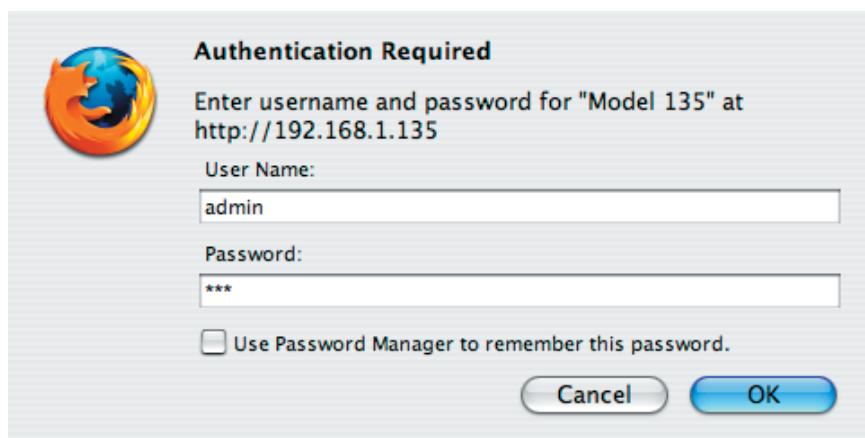


Figure 3-7. Model 135 Enter Name and Password Screen

Step 7: A successful login will bring you to the Main Menu of the Model 135 Site Monitor Application Program (Figure 3-8). This Main Menu will allow you to navigate throughout the Model 135 Site Monitor menu system allowing you to configure the operating parameters of the Model 135 Site Monitor.

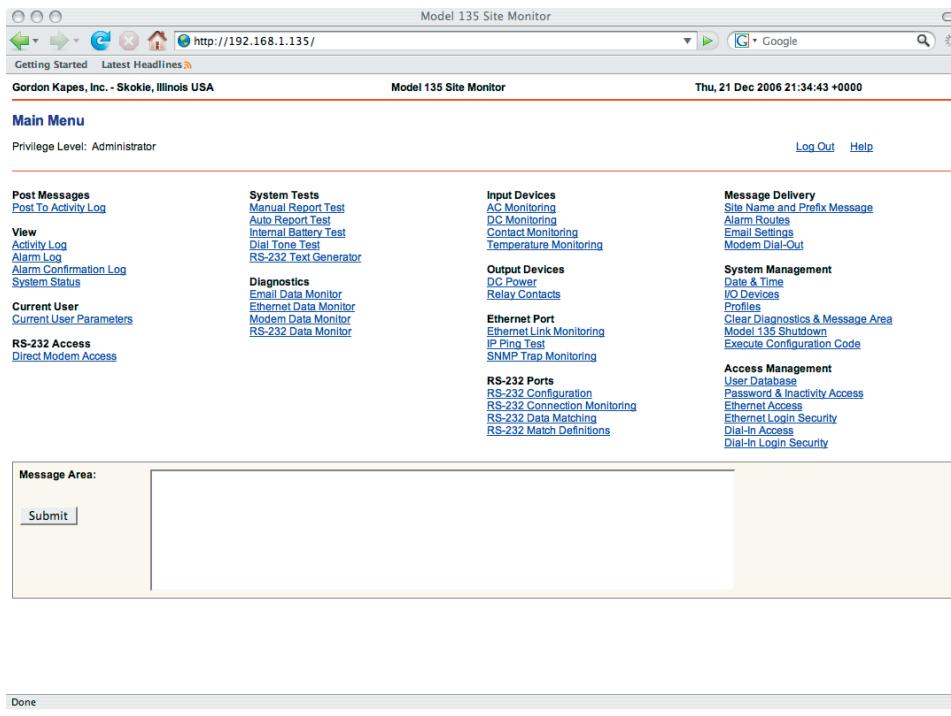


Figure 3-8. Model 135 Main Menu Screen

Step 8: Select Log Out at any time to disconnect from the Model 135 Site Monitor (Figure 3-8 and Figure 3-9).

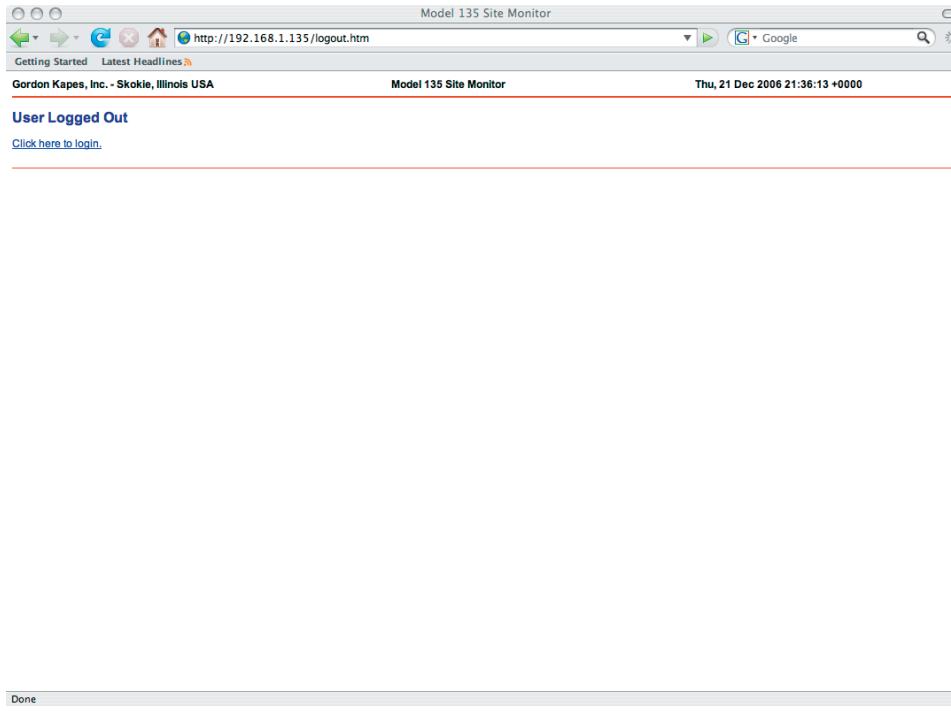


Figure 3-9. Model 135 User Logged Out Screen

Section Four: Configuring the Model 135 Site Monitor for Your Local Area Network (LAN)

Once you have established a direct Ethernet connection between the Model 135 Site Monitor and your computer, you will be able to reconfigure the Model 135 to be part of your local area network (LAN) system.

Step 1: Open your browser and enter the following default URL address **http://192.168.1.135** to access the Model 135 Site Monitor. An Enter Network Password screen should appear requesting a User Name and Password (Figure 4-1). Enter/type the default User Name of **admin** and the default Password of **135** (Figure 4-1). Select/click OK. This login will bring you to the Main Menu of the Model 135 Site Monitor Application Program (Figure 4-2).

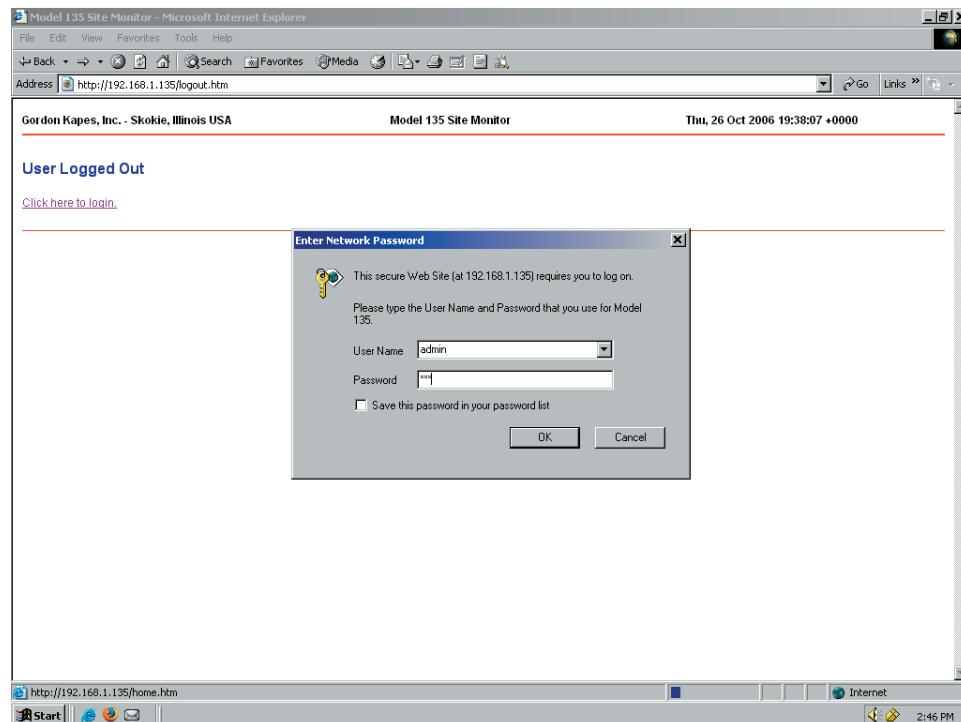


Figure 4-1. Model 135 Enter Network Password Screen

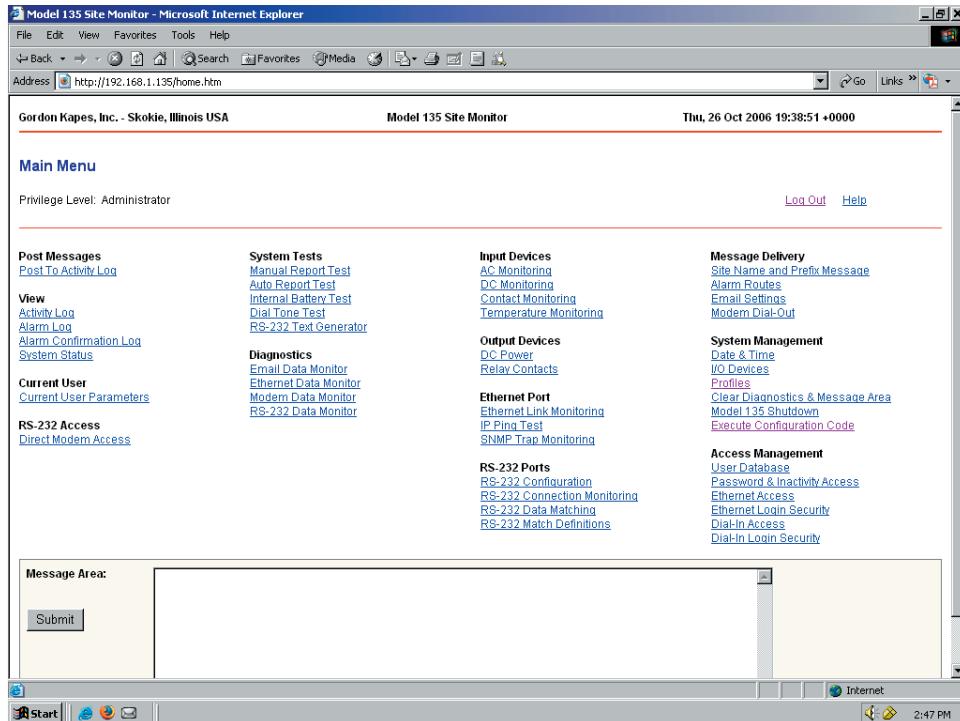


Figure 4-2. Model 135 Main Menu Screen

Step 2: Under the System Management column, select/click the Execute Configuration Code item (Figure 4-2). This will bring up the Execute Configuration Code screen (Figure 4-3). Select/click the box for Execute Configuration Code which will place a check mark within the box. Once the check mark is visible within the box, then select/click the Submit button (Figure 4-3). These actions will shutdown the Model 135 Application Program and bring you to the User Logged Out screen (Figure 4-4).

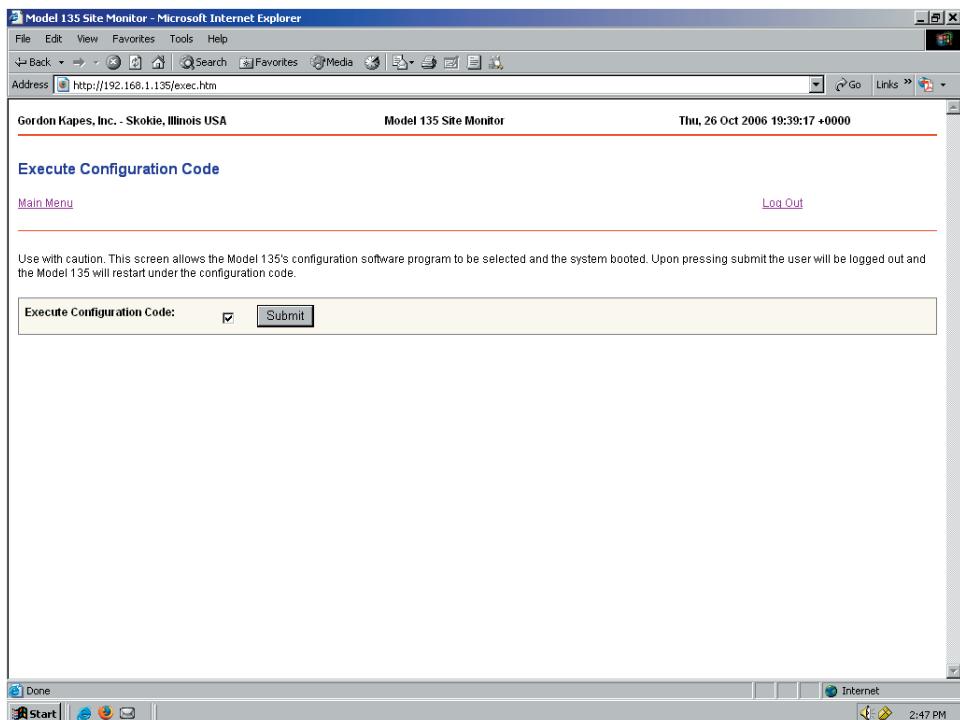


Figure 4-3. Model 135 Execute Configuration Code Screen

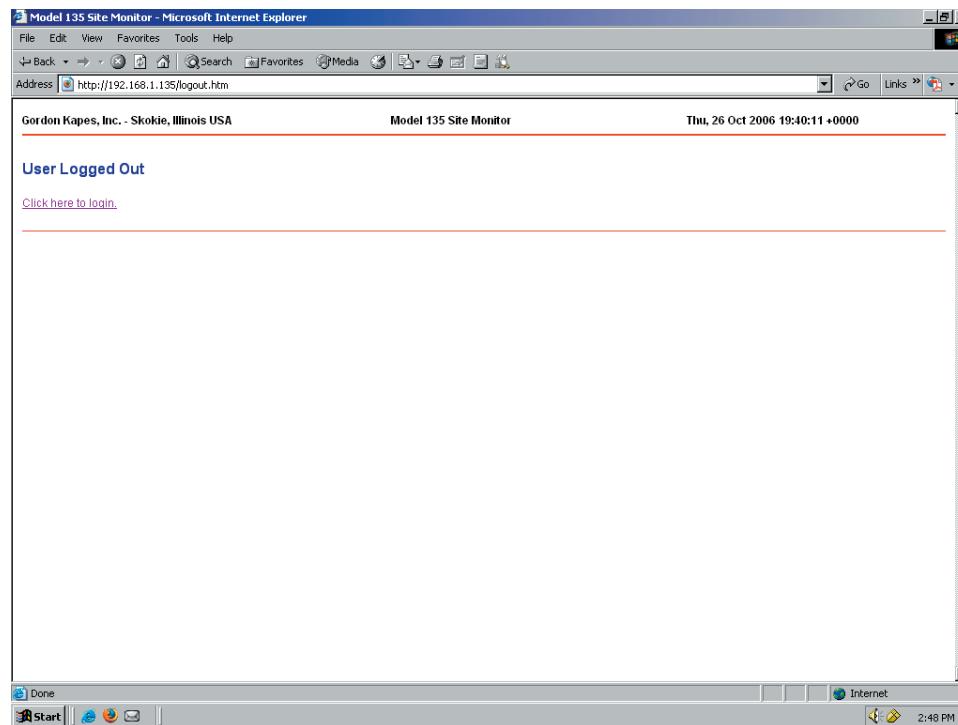


Figure 4-4. Model 135 User Logged Out Screen

Step 3. Select/click “Click here to login.” Enter/type the default User Name of **admin** and the default Password of **135** (Figure 4-5). Select/click OK. A special Configuration Code program will start (Figure 4-6).

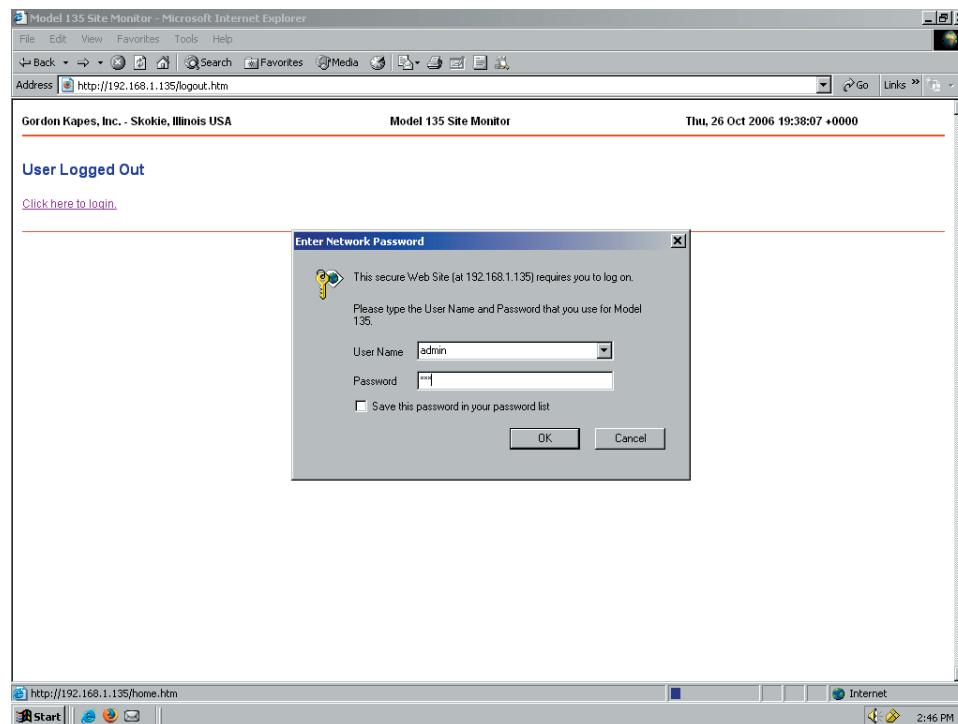


Figure 4-5. Model 135 Enter Network Password Screen

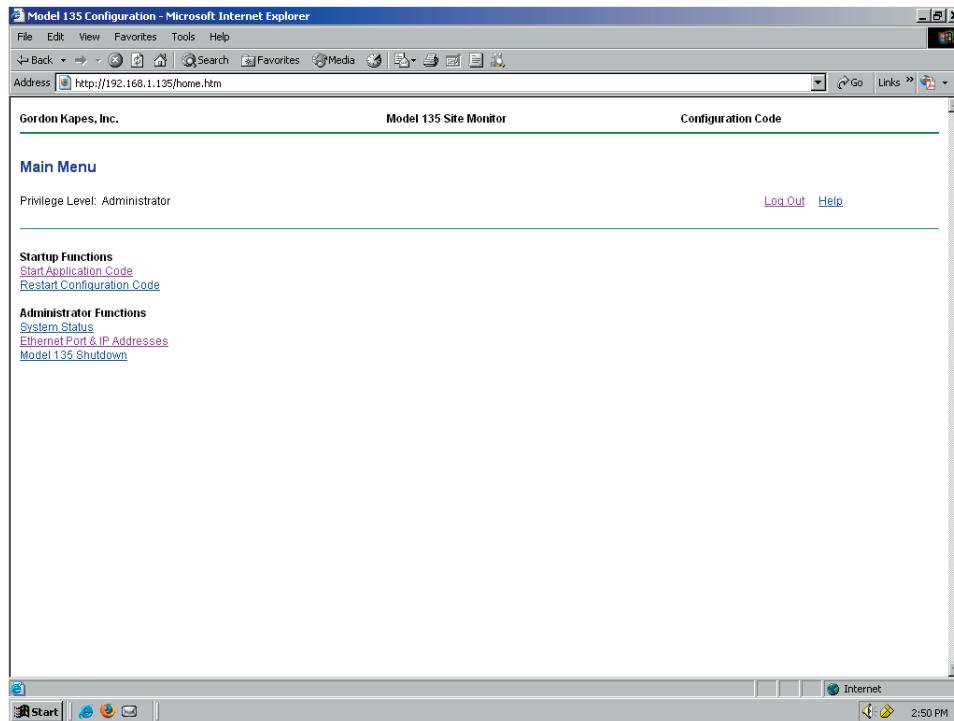


Figure 4-6. Model 135 Configuration Code Main Menu Screen

Step 4: Under the Administrator Functions column, select/click the Ethernet Port & IP Addresses item. The Ethernet Port & IP Addresses setup screen will be displayed (Figure 4-7). Enter/type your IP Address, Subnet Mask, Default Gateway IP Address, Preferred DNS Server IP Address, and Alternate DNS Server IP Address. This information can be obtained from your IT support administrator.

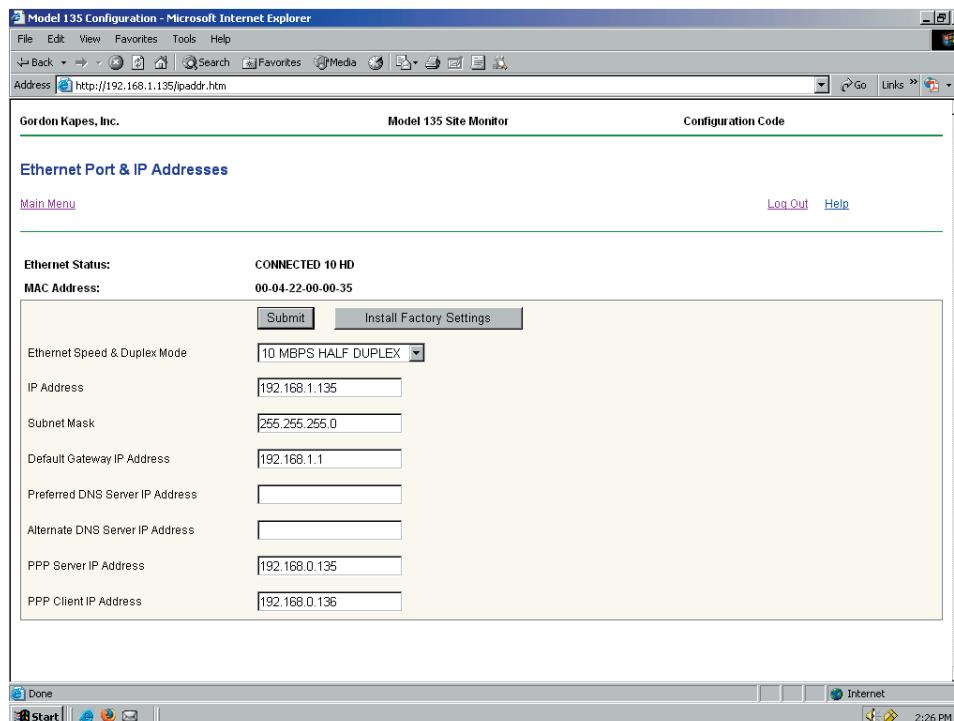


Figure 4-7. Model 135 Ethernet Port & IP Addresses Screen

Step 5: Upon completion of entering the Ethernet Port & IP Addresses, select/click the Submit button (Figure 4-7). When the refreshed screen appears, confirm/verify that your displayed addresses and gateway information are correct.

Step 6: Select/click the Main Menu link from the Configuration Code program. Then select/click Start Application Code under the Startup Functions column (Figure 4-6). A Start Application Code screen will be displayed (Figure 4-8). Select/click Submit. This action will shutdown the Model 135 Configuration Program and bring you to the User Logged Out screen (Figure 4-9).

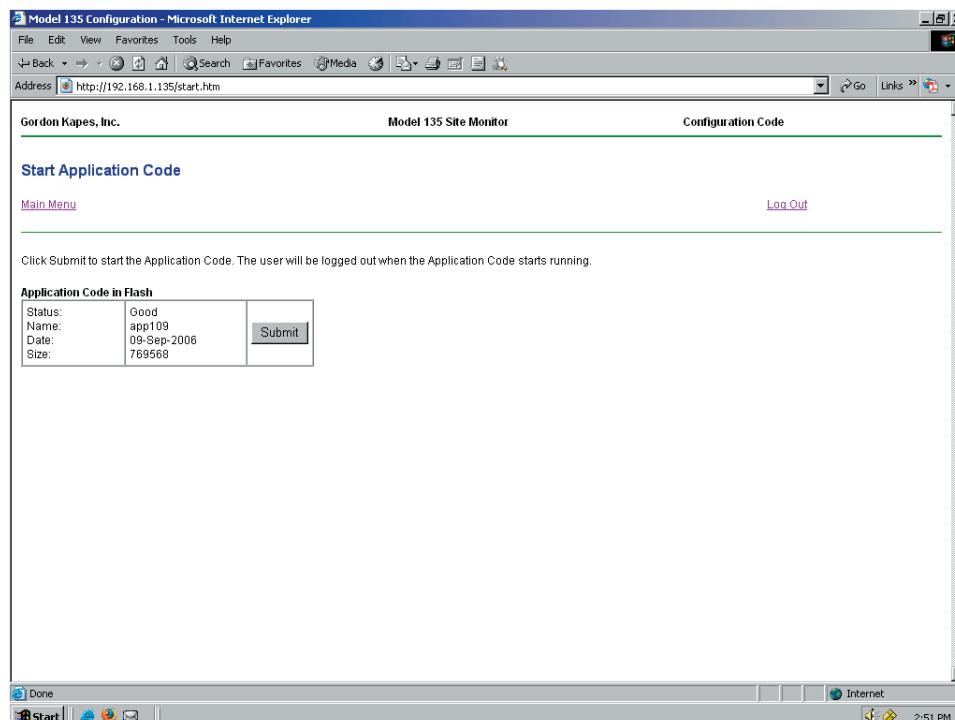


Figure 4-8. Model 135 Start Application Code Screen

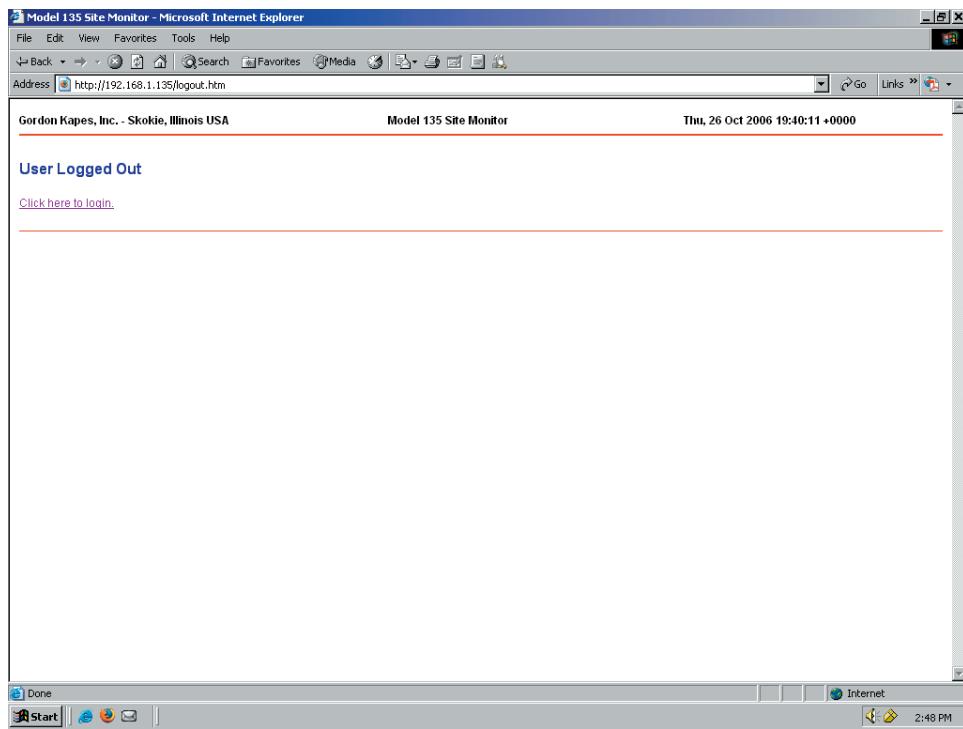


Figure 4-9. Model 135 User Logged Out Screen

This will implement the entered changes on the Ethernet Port & IP Addresses Configuration Screen and start the Model 135 Application Code. The Model 135 Site Monitor will now be configured to be part of your LAN, responding to the new IP Address entered (Figure 4-7). Ethernet access to the Model 135 Site Monitor must now be from a computer that is set up to communicate over your LAN using the new IP address that was just assigned.

Section Five: Installing the Model 135

5.1 Installation Overview

In this section you will be installing and interconnecting the Model 135. The one-rack-space unit will be mounted in an equipment rack. Alternately, it can be mounted on a wall surface. Input and output connections will be made by way of terminal plugs and modular connectors. AC mains power will be supplied by a detachable cord set.

5.2 Caution

As with any product, installing the Model 135 requires a safety-first approach.

Warning: Never install telephone wiring during a lightning storm. Never touch non-insulated telephone wires or terminals unless the telephone line has been disconnected at the network interface. Use caution when installing or modifying telephone lines.

5.3 Rack Mounting

In most cases the Model 135 will be mounted in a standard 19-inch (48.3 cm) equipment rack (Figure 5-1). One space (1.75 vertical inches) is required. Secure the Model 135 into the equipment rack using two mounting screws per side. These rack screws must be provided by the installer.

In its standard configuration the Model 135's rack mounting brackets are attached to what's considered the front of the unit (Figure 5-1). This is the surface that contains the AC mains and battery status LED indicator lights. The connectors are on the unit's back and would typically face the inside of the rack enclosure. In special cases it may be necessary for the connectors to face the front of a rack enclosure. This is easily accomplished by moving the rack mounting brackets to their alternate attachment points located toward the back of the unit. Two Phillips-head screws are used to secure each rack bracket to the alternate attachment points.

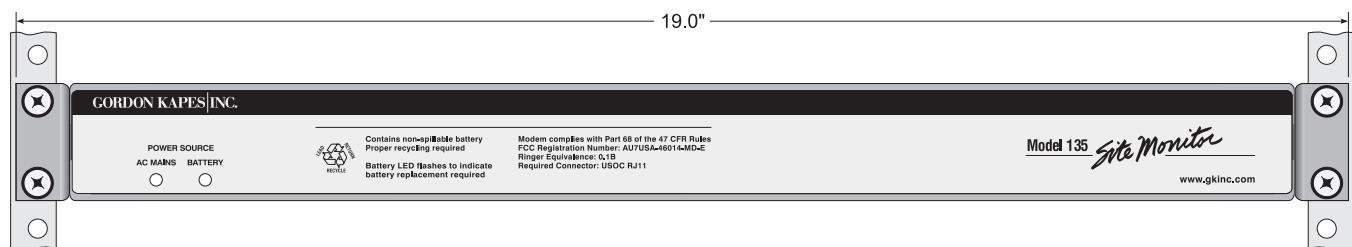


Figure 5-1. Model 135 Shown Rack Mounted in Standard 19-Inch Rack Enclosure

5.4 Wall Mounting

If an equipment rack is not available, the Model 135 can also be mounted to a wall surface (Figure 5-2). To accomplish this simply requires that the rack mounting brackets be removed from the sides of the enclosure then reattached in their rotated (90-degree) position (Figure 5-3 and Figure 5-4). The installer must provide wall-mounting hardware that's appropriate for the selected mounting surface. It's recommended that this surface be a plywood "back board" with a minimum thickness of 3/4-inch.

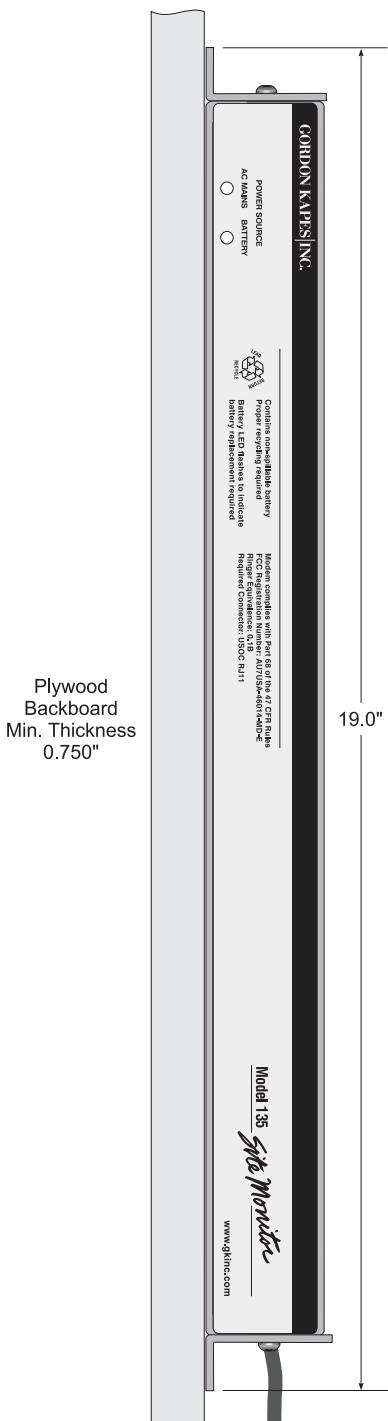


Figure 5-2. Model 135 Shown Wall Mounted



Figure 5-3. Model 135 Side View Shown with Mounting Brackets Attached for Wall Mounting

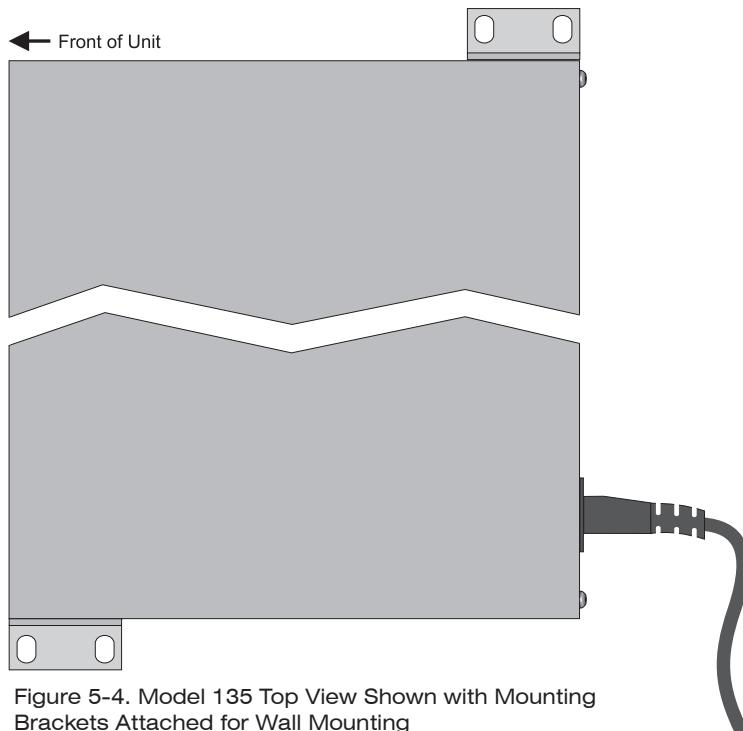


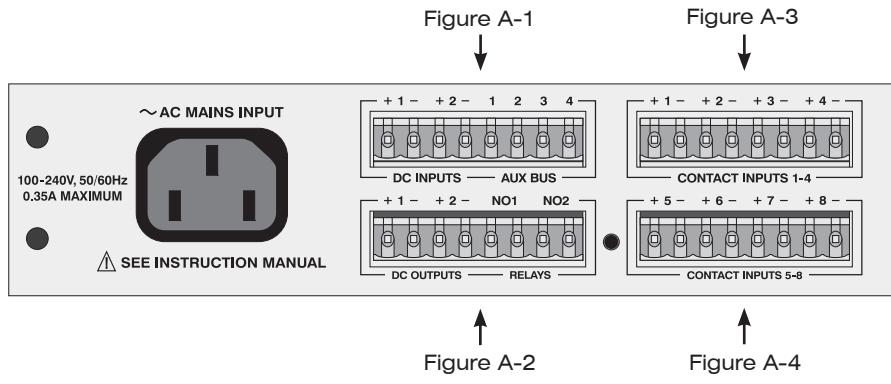
Figure 5-4. Model 135 Top View Shown with Mounting Brackets Attached for Wall Mounting

5.5 Connecting AC Mains Power

The Model 135 is internally configured to operate from an AC mains power source of nominal 100-240 volts, 50/60 hertz, 0.35 Amps maximum. The 120 Vac version of the Model 135 Site Monitor is shipped with a 6-foot detachable North American standard AC mains cord. (AC mains cords are not provided with the 220/240 Vac versions.) The Model 135 uses a 3-pin IEC-320 C14-compatible connector to mate with the AC mains cord.

Upon connection to AC power, the AC Mains LED indicator, visible on the front panel, should light. Note: Do not secure the AC power cord to any surface or other equipment. It must hang free to allow rapid disconnection if circumstances require. Attaching the AC power cord to any other surface or other equipment creates a safety hazard and may be an electrical-code violation.

Appendix A. Model 135 Site Monitor Connection Charts



Pin Number		
P7-1	+	DC
P7-2	-	Input 1
P7-3	+	DC
P7-4	-	Input 2
P7-5		Data Ground
P7-6		Data I/O
P7-7		Power Return
P7-8		+5 V Power

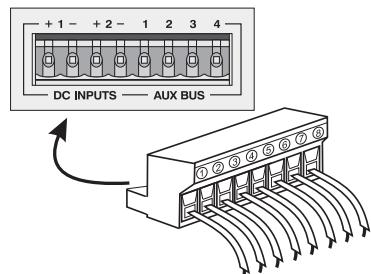


Figure A-1. Model 135 DC Inputs and Aux Bus (Plug P7)

Pin Number		
P5-1	+	Contact
P5-2	-	Input 1
P5-3	+	Contact
P5-4	-	Input 2
P5-5	+	Contact
P5-6	-	Input 3
P5-7	+	Contact
P5-8	-	Input 4

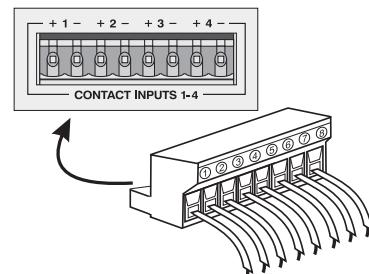


Figure A-3. Model 135 Contact Inputs 1 through 4 (Plug P5)

Pin Number		
P7-9	+	DC
P7-10	-	Output 1
P7-11	+	DC
P7-12	-	Output 2
P7-13		Relay
P7-14		No 1
P7-15		Relay
P7-16		No 2

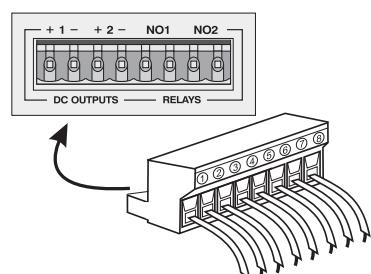


Figure A-2. Model 135 DC Outputs and Relays (Plug P7)

Pin Number		
P5-9	+	Contact
P5-10	-	Input 5
P5-11	+	Contact
P5-12	-	Input 6
P5-13	+	Contact
P5-14	-	Input 7
P5-15	+	Contact
P5-16	-	Input 8

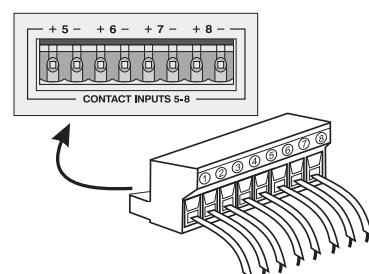


Figure A-4. Model 135 Contact Inputs 5 through 8 (Plug P5)

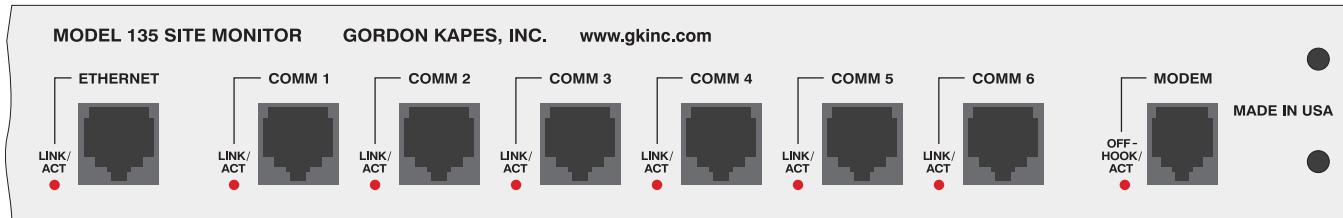


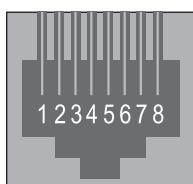
Figure A-5

Figure A-6

Figure A-7

Figure A-8

Pin Number	Name	Direction	
J8-1	Transmit	(TD +)	Output
J8-2	Transmit	(TD -)	Output
J8-3	Receive	(RD +)	Input
J8-6	Receive	(RD -)	Input
J8-4	Termination		
J8-5	Termination		
J8-7	Termination		
J8-8	Termination		



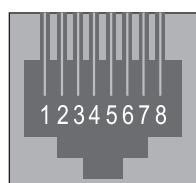
Jack
Front View



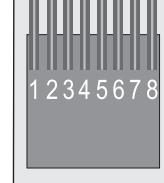
Plug
Top View
(Release Tab on Bottom)

Figure A-5. Model 135 Ethernet Port (Jack J8)

Pin Number	Name	Direction	
Jn-1	RTS	Output	
Jn-2	DTR	Output	
Jn-3	TXD	Output	
Jn-4	GND	Ground	
Jn-5	GND	Ground	
Jn-6	RXD	Input	
Jn-7	DSR	NC	
Jn-8	CTS	Input	



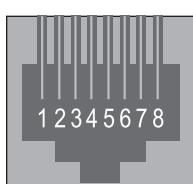
Jack
Front View



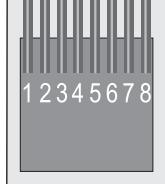
Plug
Top View
(Release Tab on Bottom)

Figure A-6. Model 135 Comm Ports 1 through 4 (Jack Jn)

Pin Number	Name	Direction	
Jn-1	RTS	Output	
Jn-2	DTR	Output	
Jn-3	TXD	Output	
Jn-4	GND	Ground	
Jn-5	GND	Ground	
Jn-6	RXD	Input	
Jn-7	DSR	NC	
Jn-8	CTS	NC	



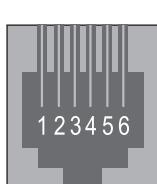
Jack
Front View



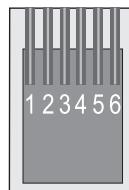
Plug
Top View
(Release Tab on Bottom)

Figure A-7. Model 135 Comm Ports 5 and 6 (Jack Jn)

Pin Number	Name
J1-3	Ring
J1-4	Tip



Jack
Front View



Plug
Top View
(Release Tab on Bottom)

Figure A-8. Model 135 Modem Port (Jack J1)

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