GORDON KAPES INC.

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).

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Name Mame Make Make Local Area Connection Type: LAN Connection Status: Enabled 3Com 3C920 Integrated Fast Ethernet Controller (3C905C-TX Compatible)		Type ? : Connected 00:13:39 100.0 Mbps 100.0 Mbps	Status Enabled
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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.

ocal Area Connection Properties
General
Connect using:
3Com 3C920 Integrated Fast Ethernet Controller (3C905C-
Configure
Components checked are used by this connection:
WWLink NetBIOS WWLink IPX/SPX/NetBIOS Compatible Transport Proto
Internet Protocol (TCP/IP)
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in taskbar when connected
OK Cancel



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Internet Protocol (TCP/IP) Properties

General)

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).

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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.

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Main Menu				
Privilege Level: Administrator			Log Out Help	
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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

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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

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Figure 2-5. Network Connections Local Area Connection Screen

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

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Address Network Connections	
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start Local Area Connectio	Internet Internet Image: Contract of the second

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.

🕹 Local Area Connection Properties 🛛 🕐 🔀	Internet Protocol (TCP/IP) Properties
General Authentication Advanced	General
Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator fo the appropriate IP settings.
	Use the following IP address:
NWLINK NEEDIOS NWLINK NEEDIOS NWLINK NEEDIOS NWLINK NEEDIOS	IP address: 192.168.1.136
✓ The second of the second	Subnet mask: 255 . 255 . 255 . 0
	Default gateway:
Install Uninstall Properties	Obtain DNS server address automatically
Description	O Use the following DNS server addresses:
Transmission Control Protocol/Internet Protocol. The default	Preferred DNS server:
wide area network protocol that provides communication across diverse interconnected networks.	Alternate DNS server:
Show icon in notification area when connected	Advanced
	OK Can
OK Cancel	Figure 2-8. Internet Protocol (TCP/IP) Properties Screen
Figure 2-7, Internet Protocol (TCP/IP)	
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

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Cancel

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).

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Address 🕘 http://192.168.1.135		💌 ラ Go
Description partial bitter///102 166 1 135/	Enter Network Password Image: Secure Web Site (at 192.168.1.135) requires you to log on. Please type the User Name and Password that you use for Model 135. User Name Password Image: Save this password in your password list Image: DK Cancel	
l otort		•
Start		🦇 🚫 - 4114 FM

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.

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Main Menu				
Privilege Level: Administrator			<u>Log Out</u> <u>Help</u>	
Post Messages 25 Post To Activity Loa 26 View 41 Activity Loa 56 Activity Loa 56 Alarm Confirmation Loa 57 System Status 56 Current User 56 Current 5	System Tests Manual Report Test Auto Report Test Internal Battery Test Dial Tone Test RS-232 Text Generator DiagnoStiCs Email Data Monitor Themet Data Monitor Themet Data Monitor Ke3-232 Data Monitor	Input Devices A.C. Monitoring C.C. Monitoring Contact Monitoring Temperature Monitoring Temperature Monitoring DC-Power Relay Contacts Eliternet Link Monitoring IP-Ping Test SIMP Trao Monitoring RS-232 Ports RS-232 Configuration RS-232 Data Matching RS-232 Data Matching RS-232 Data Matching	Message Delivery Site Name and Prefix Message Alarm Routes Email Settings Modern Dial-Out System Management Dolla & Time NO Devices Trofiles Olear Diamotics & Message Area Model 135 Shutdown Execute Configuration Code Execute Configuration Code	
Message Area: V1.09 App V1.05 CFG V1.03 StrUp				
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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

	Network	6	
Show All		(Q,	
Loc	ation: Automatic	•	
9	Show: Network Status	•	
	·		
Built-in Ethernet	Built–in Ethernet is currently active. Bu assigned IP address and may not be a Internet.	uilt-in Ethernet has a self- ble to connect to the	
e AirPort	AirPort is turned on but is not connect	ted to a network.	
	Configure Connect	\supset (?
Click the lock to prev	vent further changes.	ist me) Apply Now	

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).

0 0	Network	
Show All	Q	
L	ocation: Automatic	
ТСР/	PPPoE AppleTalk Proxies Ethernet	
Configure IPv4:	Using DHCP	
IP Address:	169.254.16.135 Renew D	HCP Lease
Subnet Mask:	255.255.0.0 DHCP Client ID:	
Router:	(If requir	ed)
DNS Servers:		(Optional)
Search Domains:		(Optional)
IPv6 Address:	fe80:0000:0000:0000:0216:cbff:fe9b:6392	
	Configure IPv6	?
Click the lock to p	revent further changes. Assist me	Apply Now

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.

00	Network		
Show All		Q	
L	ocation: Automatic Show: Built-in Ethernet	•	
TCP	PPPoE AppleTalk Proxies	Ethernet	
Configure IPv4 IP Address Subnet Mask Router. DNS Servers:	 Manually Using DHCP with manual address Using DHCP Using BootP Off 		
Search Domains:			(Optional)
IPv6 Address:	fe80:0000:0000:0000:0216:cbff:fe9b	:6392	
	Configure IPv6		?
Click the lock to p	revent further changes.	t me)	Apply Now

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

	Network	6	
Show All		Q	
Lo	ocation: Automatic	•	
	Show: Built-in Ethernet	÷	
TCP/	IP PPPoE AppleTalk Proxies	Ethernet	
Configure IPv4:	Manually	•	
IP Address:	192.168.1.136		
Subnet Mask:	255.255.255.0		
Router:			
DNS Servers:			
Search Domains:		(Opti	onal)
IPv6 Address:	fe80:0000:0000:0000:0216:cbff:fe9b:	6392	
	Configure IPv6		?
Click the lock to pr	event further changes.	t me Apply I	Now

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.

3	Authentication Required
	Enter username and password for "Model 135" at http://192.168.1.135
-	User Name:
	admin
	Password:

	Use Password Manager to remember this password.
	Cancel OK



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

Done

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).

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Address Attp://192.168.1.135/logout.htm		💌 🖓 Go 🛛 Links 🎽 🕤 🚽
Gordon Kapes, Inc Skokie, Illinois USA	Model 135 Site Monitor	Thu, 26 Oct 2006 19:38:07 +0000
User Logged Out		
<u>Click here to login.</u>		
	Enter Network Password	×
	This secure Web Site (at 192.168.1.135) requires you to	log on.
	Please type the User Name and Password that you use f 135.	or Model
	licer Name arfmin	-
	Password ***	
	Save this password in your password list	
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Figure 4-1. Model 135 Enter Network Password Screen

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Main Menu			
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Post Messages Post To Activity Loa Activity Loa Alami Loa Alami Loa System Status Current User Current User Parameters RS-232 Access Direct Modern Access	System Tests Manual Report Test Auto Report Test Internal Battery Test Dial Tone Test RS-232 Test Generator Diagnostics Email Data Monitor Ethernet Data Monitor RS-232 Data Monitor	Input Devices AC Monitorina D.C. Monitorina Contact Monitorina Temperature Monitorina Temperature Monitorina D.C. Power Relar Contacts Ethermet Port Ethermet Link Monitorina IP.Pina Test SIMIP Tran Monitorina RS-232 Ports RS-232 Contaction RS-232 Confluention RS-232 Confluention RS-232 Confluention RS-232 Data Matchina RS-232 Data Matchina	Mossage Dolivery Sile Name and Prefix Message Alarm Roules Email Settings Modern Dia-Dud System Management Date & Time WD Devices Profiles Clear Diagnostics & Message Area Model 135 Shutdown Execute Confluoration Code Access Management User Database Password & Inactivity Access Ethernet Looin Security Dia-In Access Dia-In Access
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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).

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Execute Configuration Code		
Main Menu		Loa Out
Use with caution. This screen allows the M the Model 135 will restart under the configu	odel 136's configuration software program to be selected an ration code.	d the system booted. Upon pressing submit the user will be logged out and
Execute Configuration Code:	Submit	
Done .		
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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).

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User Logged Out			
Click hore to login			
Click here to togin.			
	Enter Network Password	×	-
	This secure Web Site (at 192.168.1.135) requires you to log on.		
	Please type the User Name and Password that you use for Mode	el	
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	User Name admin		
	Password ***		
	Save this password in your password list		
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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.

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Gordon Kapes, Inc.	Model 135 Site Monitor	Configuration Code		4
Ethernet Port & IP Addresses				
<u>Main Menu</u>		Log Out	Help	
Ethernet Status:	CONNECTED 10 HD			
MAC Address:	00-04-22-00-00-35			
	Submit Install Factory Settings			
Ethernet Speed & Duplex Mode	10 MBPS HALF DUPLEX			
IP Address	192.168.1.135			
Subnet Mask	255.255.255.0			
Default Gateway IP Address	192.168.1.1			
Preferred DNS Server IP Address				
Alternate DNS Server IP Address				
PPP Server IP Address	192.168.0.135			
PPP Client IP Address	192.168.0.136			
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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).

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Start Application Code			
<u>Main Menu</u>		Log Out	
Click Submit to start the Application Code	The user will be logged out when the Application Code starts running.		
Status: Good Name: app109 Date: 09-8ep-2006 Size: 769568	Submit		
Done		📄 📄 👘 Internel	:
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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.

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\odot	CORDON KAPES INC.				\odot
\otimes	POWER SOURCE AC MAINS BATTERY	Contains non-spillable battery Proper recycling required Battery LED flashes to indicate battery replacement required	Modem complies with Part 68 of the 47 CFR Rules FCC Registration Number: AU7USA-46014-MD-E Ringer Equivalence: 0.18 Required Connector: USOC RJ11	Model 135 Site Monitor www.gkinc.com	\otimes
0					0

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

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

i in italiiboi			
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	
	P7-1 P7-2 P7-3 P7-4 P7-5 P7-6 P7-7 P7-8	P7-1 + P7-2 - P7-3 + P7-4 - P7-5 P7-6 P7-7 P7-8	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		
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			
P5-1	+	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			
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)



Jack Front View

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

45678

Plug Top View (Release Tab on Bottom)

Plug

Top View (Release Tab on Bottom) 2345678 Jack

Pin Number

Front View



(Release Tab on Bottom)

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

Pin Number	Name	Direction
J <i>n</i> -1	RTS	Output
J <i>n</i> -2	DTR	Output
J <i>n</i> -3	TXD	Output
J <i>n</i> -4	GND	Ground
J <i>n</i> -5	GND	Ground
J <i>n</i> -6	RXD	Input
J <i>n</i> -7	DSR	NC
J <i>n</i> -8	CTS	NC
123	45678	1 2 3 4 5 6 7 8

J1-3 J1-4	Ring Tip	
1234	.56	123456
Jack	(Plug

Name

Jack Front View

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

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

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Top View (Release Tab on Bottom)

Jack Front View