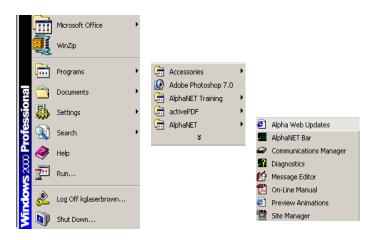
AlphaNET™ version 3.0

Compatible with Windows 95, 98, NT, ME, 2000 & Macintosh PowerPCs!

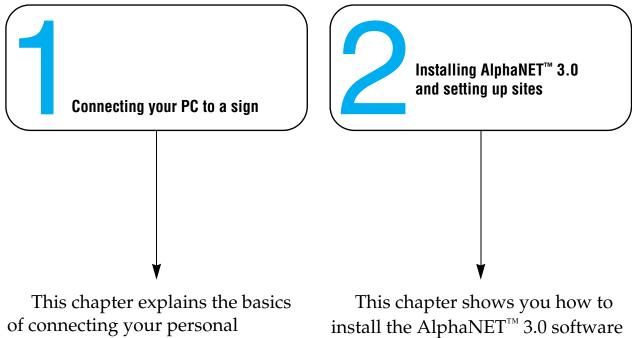


User Manual

For the most recent updates, go to http://www.adaptivedisplays.com/support/alphanet

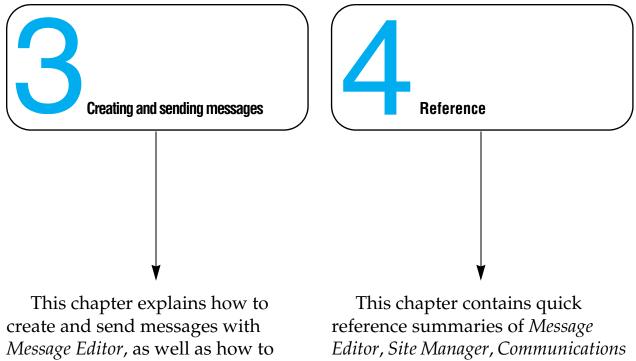


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computer to a sign.

on your personal computer. Also, a step-by-step tutorial explains the basics of creating sites using *Site Manager*.



include graphics and animation in your messages.

Manager, and Diagnostics in the AlphaNET[™] 3.0 software.

NOTE: Due to continuing product innovation, specifications in this document are subject to change without notice.

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http://www.adaptivedisplays.com or email us at sales@adaptivedisplays.com

What's new in AlphaNET[™] version 3.0 software

Password protection

Site Manager and Message Editor can now be password-protected. Select *Set Password* from the *Edit* drop-down menu:

	Set Password		×	
Type a new password in the <i>New</i> <i>Password</i> line, then press <i>Tab</i> . Type the same password in the <i>Verify</i> box and click <i>OK</i> .	Old Password: New Password: Verify:	Сапсе Сапсе		When changing the password, you must first type the password to be changed in the <i>Old Password</i> line.

Menu customization

You can customize the options appearing in the drop-down menus in Message Editor by selecting *Edit>Customize*:

	Customize	×	
The type of sign selected determines the options available in your drop-down menus.	Show menu items for: All Signs (Show All) Loon Style Save and reopen your messages to change the appearance of existing icons. Pictures Text	Cancel	Select how you want the icons in your messages to appear, as pictures or as text.
	Tab Setting Spaces to insert: 8		— Type the number of spaces to insert for a tab setting.

Color selection

A new color selection box is available for the AlphaEclipse[™] Purecolor[™] 3600 series sign (full color, not monochrome). In Message Editor, see *Characters>Color>RGB*.

This color selection box also appears when you select *Characters>Shadow* in Message Editor to allow you to pick the shadow color of the characters.

Color ? 🗙
Basic colors:
Custom colors:
Define Custom Colors >>
OK Cancel

New modes

Two new modes are available with this version of AlphaNETTM, Clock mode and Explode mode. Clock mode is a wipe mode that updates information as if a second hand were sweeping around the sign. Explode mode is a roll mode that moves information from the center of the sign and outward in all four directions at once. Both modes are available in Message Editor under the *Modes* drop-down menu.

New line positions

Two new line positions are available in *Message Editor*, Left and Right, which left- or right-justify your message.

Slide		×
Line Position Fill Top Left	C Middle C Bottom C Right	OK Cancel

These line positions are only available with the AlphaEclipse™ PureColor™ 3600 series sign.

Tooltips

Tooltips are now available in all components of AlphaNET 3.0.

A. T 111	🖀 Sitebase32.dat - AlphaNET Site M	anager		
A Tooltip appears	File Edit Messages View Help			
when you place the mouse over an icon in		🕄 🖉 😴		
any component of	Sites / Groups Remove	Message Name	Start Day / Time	Stop Day / Time
AlphaNET.	Engineering	🖹 alpha1.msw	Always	
Alphanici.		🖹 flood.msw	Always	
	Manufacturing	🖹 alpha2.msw	Always	
	🗀 R&D			
	Sales			

Contents

Manual Map	ii
What's new in AlphaNET™ version 3.0 software	v
Password protection	V
Menu customization	V
Color selection	V
New modes	V
New line positions	vi
Tooltips	vi

1 Co

Connecting your PC to a sign	1
PC hardware and software requirements	2
Minimum hardware and software requirements	
Other hardware requirements	2
Macintosh® hardware and software requirements	2
Related documentation	2
Types of sign connections	3
Cable network	
Modem network	3
Wireless network	4
Local Area Network (LAN)	4

2 Ins

nstalling AlphaNET™ 3.0 software and setting up sites	5
How to install AlphaNET [™] 3.0 software	6
How to change a sign's serial address	
What is a serial address?	7
Changing a sign's serial address	8
Step-by-step tutorial in setting up connection devices, sites, and groups	9
What are sites and groups	9
Overview of the tutorial	9
Step 1: Creating or changing the connection devices	11
Setting up a modem (remote) connection	12
Setting up a cable (local) connection	15
Setting up a wireless transmitter connection	17
Setting up a Local Area Network (LAN) connection	19
Step 2: Creating or changing the sites	21
Creating the R & D Site — a modem example	21
Creating the Sales Site — a LAN example	25
Creating the Lobby, Engineering, and Manufacturing sites — a wired example	28
Creating the Shipping site — a wireless example	32
Step 3: Creating or changing the groups	36

reating and sending messages	
Basic message editing	
Using Message Editor to create your message	
Using modes to change the look of a message	
Using characters to change the look of a message	
Using international characters	
How to send a message to a sign	
What happens when messages are sent to a sign?	
Sending messages from Message Editor	
Sending messages from Site Manager	
The difference between all messages and common messages	
How to use graphics in messages	
Creating a graphic	
Creating a flick	
Another way to create a flick	
Creating a GIF	
How to edit a counter file	
What is a counter file?	
Three examples of how to use counter files	
Example 1 — Using a counter in a message	
Example 2 — Using a counter in a message and displaying a target file message	
Example 3 — Using a counter to display just a target message	
How to use real-time data in a message	
String Variables + ActiveX® = real-time data	
Real-time data example	
Create sign memory configurations using Site Manager	
Create a message with a string variable using Message Editor	
Update the sting variable using the ActiveX ${ m I\!R}$ control	
How to create and use a custom Automode sequence	
Creating or editing an Automode sequence	
Using a custom Automode sequence	

4 Refer

eference	
Message Editor	
Site Manager	
Communications Manager	
Diagnostics	

5

Appendices	127
Appendix A — Macintosh® computer setup	
Appendix B — Modes available on signs	129
Appendix C — Character fonts and colors available on signs	131
Appendix D — Display Options available on signs	
Appendix E — Understanding message line positions (Top, Middle, Bottom, Fill)	133
Appendix F — How text and graphics are displayed on signs	138



PC hardware and software requirements

Minimum hardware and software requirements

- Windows® 95, 98, XT, NT Workstation, ME, or 2000 software
- Processor requirements appropriate to selected operating system
- 16 MB RAM
- 10 MB of hard disk space
- CD drive
- RS232 (serial port) or LAN access
- Works with Alpha® displays

Other hardware requirements

Additional hardware, such as connectors and cabling, is also required and depends on the type of sign and connection you will be using.

Macintosh® hardware and software requirements

See "Appendix A — Macintosh® computer setup" on page 127 for details.

Related documentation

The following documentation may be useful with this manual:

Part #	Document name	Description
9700-0112	Networking Alpha Signs	Explains the various types of sign networking options available.
9708-8061	Alpha® Sign Communications Protocol	Explains the native protocol used to send text and graphics to Alpha® signs.
9708-8099	How to Install AlphaNET™ 3.0 Software	Describes how to install the AlphaNET™ 3.0 software and use the Site Wizard.

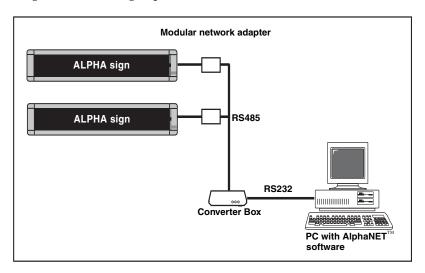
Types of sign connections

An overview of the methods of connecting signs is presented on the following pages.

For more detailed information, see the **Networking Alpha Signs** manual (pn 9700-0112).

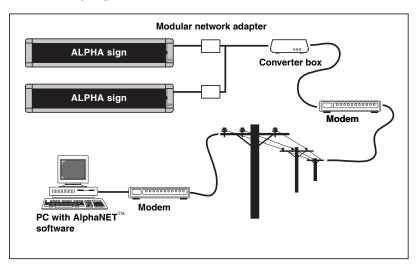
Cable network

In this type of network, one or more signs are connected with RS485 cabling to a PC running AlphaNET[™] software:



Modem network

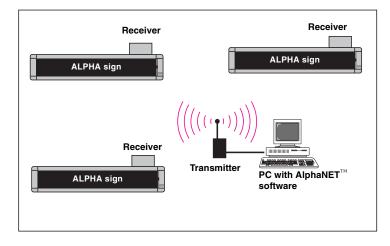
In this configuration, modems are used to connect one or more signs to a PC running $AlphaNET^{TM}$ software:



Wireless network

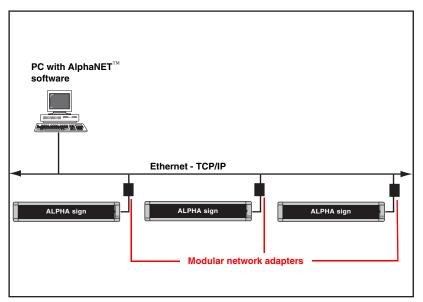
Using the following technologies listed below, AlphaNET[™] 3.0 software can send messages to Alpha® signs on wireless networks:

- Reach Wireless (www.reachwireless.com)
- Waveware Technologies (www.wirelessmessaging.com)
- Metrocall/DirectView (http://www.metrocall.com/directview)
- Adaptive Wireless Solution (www.adaptivedisplays.com) currently this can only be used with AlphaEclipse[™] signs.



Local Area Network (LAN)

In this configuration, one or more signs are connected to an Ethernet network:





Installing AlphaNET[™] 3.0 software and setting up sites

How to install AlphaNET[™] 3.0 software

HINT

Before starting the software installation, check to see if there is a README file.

Look at this file before installing the software because it may contain late-breaking information.

About the Installation

You will be able to choose additional applications to install; Adobe Acrobat Reader and Paint Shop Pro. Simply click the appropriate yes or no response when the prompt to do so appears.

You will also be able to choose whether you want to install the AlphaNET[™] computer based training. If so, it will appear in your *Start>Programs* menu.

A Site Wizard will be available to you to help you set up your first site. It will not appear until you have restarted your computer after the installation. Simply click the appropriate response when the prompt to do so appears. For more information on the Site Wizard or on installing AlphaNET[™] 3.0, see How to install AlphaNET[™] 3.0 software (pn 9708-8099).

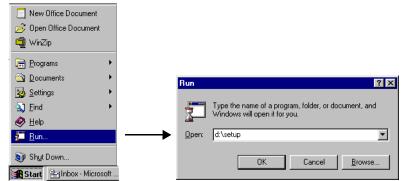
HINT

Right-click anywhere in this area of the AlphaNETTM bar and select *Change Skin* to choose a different color for the bar.

- **1.** Start Microsoft Windows® software and be sure to have all other applications closed.
- **2.** Insert the AlphaNET[™] 3.0 software CD-ROM into your CD drive. The installation process will start automatically.

If installation does not start automatically, you can either:

• Select *Start>Run*. Next, type *d*:*setup* using the correct letter for your CD drive if not *d*. Finally, select *OK*.



- Or, using Windows® Explorer, double-click *Setup.exe* in your CD-ROM drive folder.
- **3.** Follow the instructions when the installation program prompts you for a response.
- **4.** When the installation program is complete, AlphaNET[™] appears in your *Start* menu. If you select the AlphaNET[™] bar, you will have access to *Message Editor*, *Site Manager*, *Communications Manager*, *Paint Shop Pro*, and *Paint Shop Pro Animation* at the click of a button. (If you chose the appropriate box in the installation process, the AlphaNET[™] bar will appear automatically when you log into your PC.)



How to change a sign's serial address

What is a serial address?

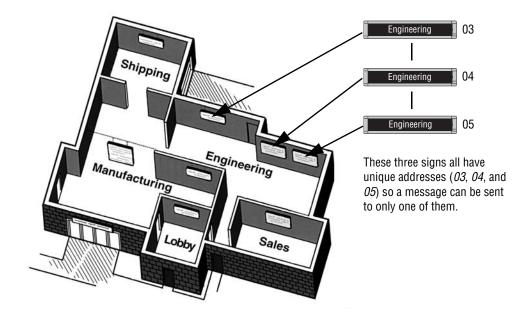
About Address 00

If more than one sign will be connected to a connection device (modem, wireless, or local connection), then give each sign a unique address, such as *01*, *02*, *03*, and so on.

Otherwise, sending a message to the sign with address *00* will also send the message to *all* other connected signs. An Alpha® sign has a feature which allows a unique number or serial address (address, for short) to be assigned to the sign. This address permits you to send messages to an individual sign on a network.

All Alpha® signs leave the factory with a default address of 00. However, another address—such as 01, 02, 03, and so on—can be given to a sign. Addresses for signs should be assigned using either a remote control or through the *Diagnostics* component of the AlphaNETTM software. Addresses should also be assigned before setting up connection devices, sites, and groups so that messages go to the correct signs.

For example, at the company used in the next sections's tutorial, several signs are connected to a network (below), and each of these signs is given a unique address so a message can be sent to a particular sign:

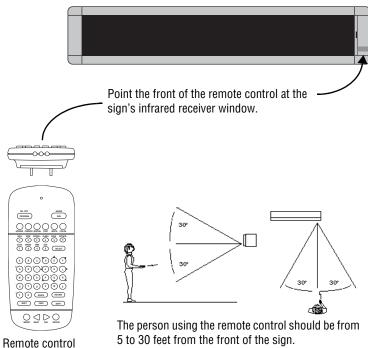


Changing a sign's serial address

NOTE

For some signs, like the 9000 series, AlphaVision[™], AlphaPremiere[™], and AlphaEclipse[™] displays, internal DIP switches must be set to change the serial address.

- ${
 m To}$ change the address of a particular sign, first make sure that 1. sign is connected to a power supply and is functioning.
- 2. Point the front of the remote control at the sign's infrared receiver window as shown below:



(front and top views).

- 3. $Press \ the \ \overline{\ } Program \) button \ on \ the \ remote \ control.$ PROG TEXT FILE A will appear on the sign.
- ${
 m N}$ ext, press the ${
 m <}$ button until SET ADDRESS appears. **4**.
- 5. Press the | > button until ADDRESS = 00 appears. (The sign Δην may have an address other than 00.)
- **6**. Set the sign's address by pressing any of the number keys. For

example, to enter an address of 15, press the (1) button and then

the 5 button.

7. ${
m F}$ inally, press the button *two* times to set the sign's new RUN address.

Address Note

Normally, a sign's address is a decimal number from 00 to 99.

However, if you need more addresses, a hexadecimal number from 00 to FF (0 to 255) can be used as an address. For example, hexadecimal 1F = decimal 31.

Step-by-step tutorial in setting up connection devices, sites, and groups

What are sites and groups?

Sites and groups are terms used by AlphaNET[™] 3.0 software to describe how messages are sent to signs. You create sites and groups to make sending messages to multiple signs flexible and easy.

A site in AlphaNETTM 3.0 software is a collection of one or more signs, and a group is made up of one or more sites.

To help you better understand, a tutorial is presented below. In this tutorial, a complex example is created in a series of easy-to-understand steps.

Overview of the tutorial

In this tutorial, we'll set up sites and groups for an imaginary company pictured below. The table shows how signs are assigned in this company:

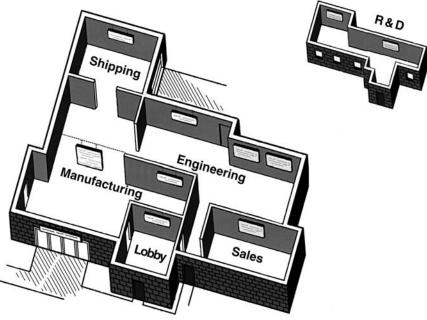


Table 1: Overview of the tutorial company

Group	Site	# signs	¹ Connection Device
	Manufacturing	2	• local
Production	Shipping	1	• wireless
	Engineering	3	• local
	Sales	2	• LAN
Administration	Lobby	2	• local
	R & D	2	• modem
) software by a direct cable (local) / a wireless transmitter.

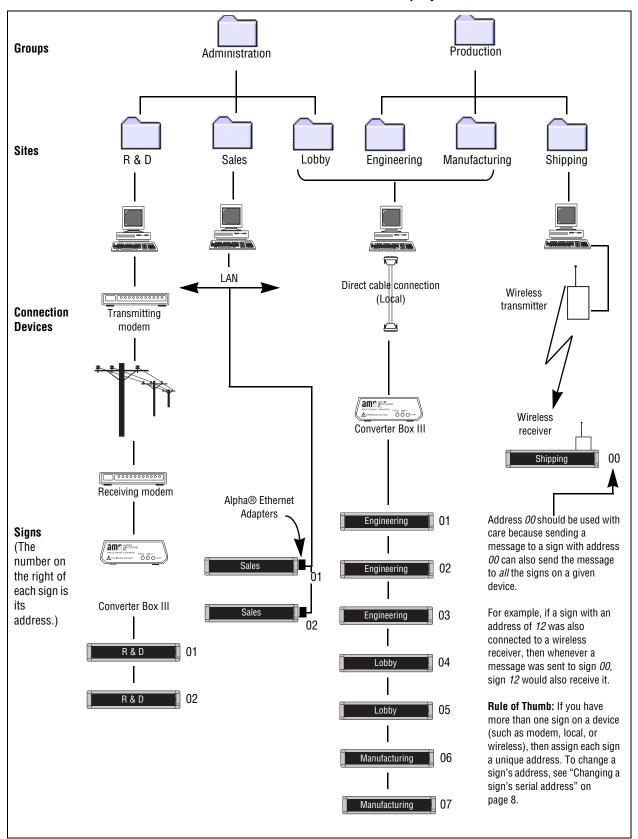


Table 2: Schematic of the tutorial company

Step 1: Creating or changing the connection devices

A connection device is a way to connect a sign to a PC that is running AlphaNETTM 3.0 software.

See chapter 1 for instructions on how to connect signs.

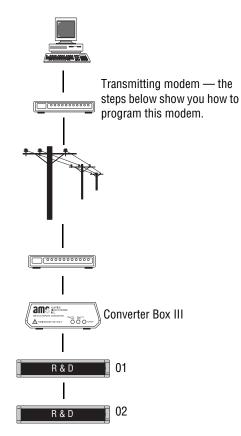
For more detailed information on networking signs, see the **Networking Alpha Signs** manual (pn 9700-0112).

The basic devices or types of networks are:

- **Cable (local) connection** This method uses cables/RS485 to connect signs to a network, and messages one or all sign are sent over this cabling. A local connection works best when all the signs are in one building.
- Modem (remote) connection Typically, this method is used when the signs you want to send messages to are not in the same building (or city) as your PC. In this type of connection, a modem is attached to your PC and another modem is attached to one or more signs at the other location. At the times you specify, messages are transmitted to the signs when the PC modem calls the sign's modem.
- Wireless connection (indoor signs) In this setup, a transmitter is attached to the PC running AlphaNET[™] 3.0 software, and each sign is equipped with a wireless receiver. This allows text and graphics to be sent wirelessly to the signs. Note that AlphaEclipse[™] signs use a pair of transceivers for 2-way communication. Setup in AlphaNET[™] uses a "wired" connection device.
- Local Area Network (LAN) connection This option allows you to connect one or more signs to a LAN using Alpha® Ethernet Adapters. There is no maximum to the number of Alpha® Ethernet Adapters that can be used with AlphaNET[™] 3.0 software.

Setting up a modem (remote) connection

In our imaginary company, the following signs are connected by modem:



1. To create a modem connection device, open *Site Manager* by selecting either the *Site Manager* button from the AlphaNETTM bar or *Programs>AlphaNET>Site Manager* from the *Start* menu:



2. Select *Edit* > *Connection Device*:

ele	Edit Messages Vie	w Help				
	Connection Device	Alt+D	3/58			
te	Counter File Automode File	Alt+C Alt+U	Message Name	Start Day / Time	Stop Day / Time	
E - L N	Select All Deselect All	Ctrl+[Ctrl+]				
ÎF _	Switch Pane	F6				
1F 15 15	Preferences Set Password	Alt+P				
	lministration oduction		i i			

3. When the *Connection Device Editor* window appears, select *Add*. Then select *Modem on Com 1* from the list, followed by *OK*. (If you have a modem on a different communications port, choose the modem on that port.)

	Connection Device Edit Default Connection D Available Connection D	evice Add	it ove mme efault
These default devices make your job easier because they are the most common methods of connecting signs to your PC.	+	Add Connection Device Select the connection devices or connection devices to add: Ethernet Adapter Local Wired Com 1 Local Wired Com 2 Local Wired Com 3 Local Wired Com 4 Modern on Com 1 Modern on Com 2 Modern on Com 3 Modern on Com 4	

4. Once you select *OK*, the following window appears:

NOTE

To finish setting up a modem connection, you have to create a modem site using *Site Manager*.

To see an example of this, see "Creating the R & D site — a modem example" on page 21.

Innection Device Editor	
Default Connection Device	Add
	Edit
vailable Connection Devices: Modem on Com 1	Remove
Modellion com 1	Rename
	Make Defaul
	Custom
	OK

5. If you want to change any of the modem settings, make sure *Modem on Com 1* is highlighted as above and then select *Edit*. Use the following window to change the settings and then select *OK*:

A B C D	Modem on Con General Settir COM Port: Data Format: Baud Rate: IP Port: Modem Settin Dialing Prefix:	rgs Wireless Settings Pager Header: 7E2 ▼ Wireless 9600 ▼ TCP/IP 3001	
F	Modem Init St	tring: Packet Delay: 2	
ltem	Name	Directions	
A	Modem	Check this box.	
В	COM Port	Select the port on your PC that connects to your modem.	
C	Data Format	Use <i>7E2</i> for 7 data bits, even parity, 2 stop bits. Use <i>8N1</i> for 8 data bits, no parity, 1 stop bit. (The <i>7E2</i> setting is compatible with most signs, but <i>8N1</i> must be used with an AlphaEclipse™ 3500 sign.)	
D	Baud Rate	Alpha® signs can receive at baud rates between 1200 and 9600 baud. Only AlphaPremiere™ signs can use the 38400 baud setting.	
E	Dialing Prefix	If you must dial a number (such as 9) for your modem to reach an outside phone line, enter the number here. Leave blank with an AlphaEclipse™ 3500 sign.	
F	Modem Init String	Consult your modem documentation. Leave blank with an AlphaEclipse™ 3500 sign.	

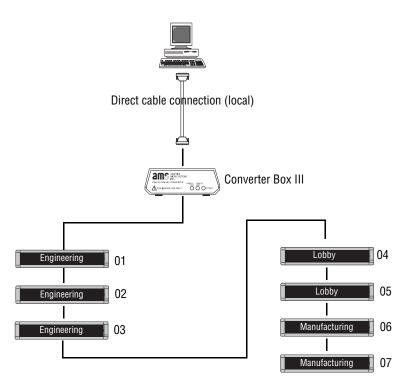
Table 3: Modem setup

BAUD RATE LIMITS

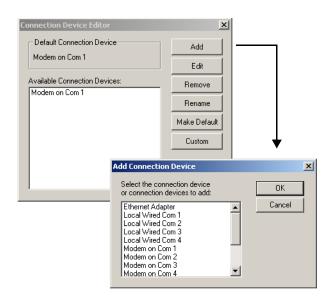
A Converter Box III with a serial number greater than AF00004525 (for example, AF00004526, AF00004527, and so on) has a minimum baud rate of 2400. Baud rates of 300 or 1200 will not be accepted, even though these rates are shown in *Connection Device Editor*.

Setting up a cable (local) connection

In our imaginary company, the following signs are connected by a local connection:



6. Continuing from the previous step, select *Add* from the *Connection Device Editor* window. Then select *Local Wired Com* 2 from the list, followed by *OK*:



7. Once you select *OK*, the following window appears:

NOTE

To finish setting up a local connection, you have to create a local site using *Site Manager*.

To see an example of this, see "Creating the Lobby, Engineering, and Manufacturing sites — a wired example" on page 28.

Connection Device Editor	×
Default Connection Device	Add
	Edit
Available Connection Devices:	Remove
Modem on Com 1	Rename
	Make Default
	Custom
	OK

8. If you want to change any of the local settings, make sure *Local Wired Com 2* is highlighted as above and then select *Edit*. Use the following window to change the settings and then select *OK*:

Local Wired Com 2 × General Settings Wireless Settings Α Pager Header: Modem COM Port: COM2 -П R Wireless Data Format: 7E2 -Pager Trailer C TCP/IP 9600 💌 Raud Rate: 3001 IP Port: Modern Settings **Dialing Prefix** Packet Size: Modem Init String: Packet Delay ΟK Cancel Item Name Directions А COM Port Select the port on your PC that is cabled to your sign(s). Use 7E2 for 7 data bits, even parity, 2 stop bits. Use 8N1 for 8 data bits, no parity, 1 stop bit. В Data Format (The 7E2 setting is compatible with most signs, but 8N1 must be used with an AlphaEclipse[™] 3500 Series A sign.) Alpha® signs can receive at baud rates between 1200 and C Baud Rate 9600 baud. Only AlphaPremiere[™] and AlphaEclipse[™] signs can use the 38400 baud setting.

Table 4: Local setup

BAUD RATE LIMIT

A Converter Box III with a serial number greater than AF00004525 (for example, AF00004526, AF00004527, and so on) has a minimum baud rate of 2400. Baud rates of 300 or 1200 will not be accepted, even though these rates are shown in *Connection Device Editor*.

Setting up a wireless transmitter connection

About Address 00

If you have multiple signs networked together, it's a good idea to give each sign a unique address, like *01*, *02*, *03*, and so on. This allows you to send messages to individual signs.

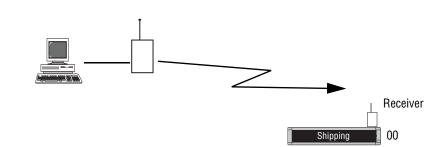
However, when you send a message to serial address 00, the message is broadcast to *all* signs on your network, even if each sign has a unique serial address.

To change a sign's address, see "Changing a sign's serial address" on page 8.

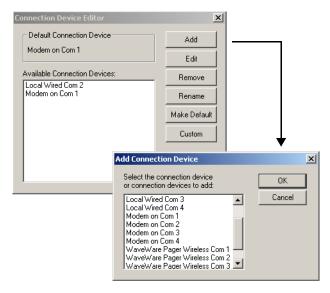
NOTE

Why can we choose *Wireless on COM1* when we already set up a *Modem on COM1*?

Site Manager assumes that you might have an AB switch attached to both a modem and a wireless transmitter. Or perhaps you unplug one device and plug in the other based on your needs. In our imaginary company, there is just one sign that uses a wireless connection. In this example, messages are sent to the sign using a wireless transmitter which is attached to a PC:



9. Continuing from the previous step, select *Add* from the *Connection Device Editor* window. *Select WaveWare Pager Wireless Com 1* from the list, followed by *OK*:



10. Once you select *OK*, the following window appears:

Connection Device Editor Add Default Connection Device Add Modem on Com 1 Edit Available Connection Devices: Remove Local Wired Com 2 Modem on Com 1 WaveWare Pager Wireless Com 1 Make Default Custom OK

NOTE

To finish establishing a wireless connection, you have to create a wireless site using *Site Manager*.

To see an example of this, see "Creating the Shipping site — a wireless example" on page 32. ſ

11. If you want to change any of the wireless settings, make sure *Waveware Pager Wireless Com 1* is highlighted as above and then select *Edit*. Use the following window to change the settings and then select *OK*.

A		
	WaveWare Pag	er Wireless Com 1
	General Settin	gs Wireless Settings
В —	COM Port:	COM1 Modern Pager Header:
C—	Data Format:	7E2 Vireless
n	Baud Rate:	9600 TCP/IP 1003/004
0		3001
	IP Port:	33001
	Modem Setting	
	Dialing Prefix:	
	Modem Init Str	Packet Delay: 2
		0K Cancel
ltem	Name	Directions
	Modem	Do not check for a wireless connection.
A	Wireless	Check <i>Wireless</i> if you are sending messages to signs
		using a transmitter attached to your PC.
В	COM Port	Select the port on your PC that connects to your modem or transmitter.
С	Data Format	Use <i>7E2</i> for 7 data bits, even parity, 2 stop bits. Use <i>8N1</i> for 8 data bits, no parity, 1 stop bit.
Ū	Data Format	(The <i>7E2</i> setting is compatible with most signs.)
	Doud Data	Alpha® signs can receive at baud rates between 1200
D	Baud Rate	and 9600 baud. Only AlphaPremiere™ signs can use the 38400 baud setting.
E	Pager Header	
F	Pager Trailer	Use these for your specific transmitter.
G	Packet Size	Consult your transmitter documentation for details.
H	Packet Delay	
	i donor Donay	

Table 5: Wireless setup

BAUD RATE LIMIT

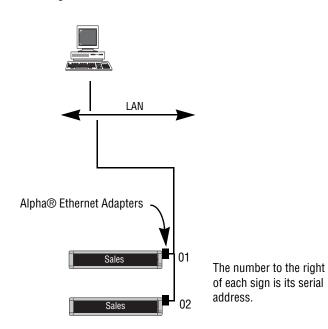
A Converter Box III with a serial number greater than AF00004525 (for example, AF00004526, AF00004527, and so on.) has a minimum baud rate of 2400. Baud rates of 300 or 1200 will not be accepted, even though these rates are shown in *Connection Device Editor*.

Setting up a Local Area Network (LAN) connection

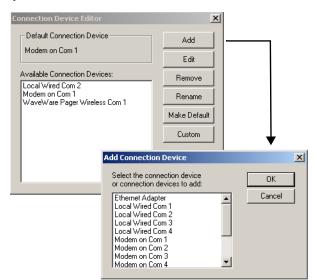
NOTE

For more detailed information, see the **Networking Alpha Signs** manual (pn 9700-0112).

In our imaginary company, there are two signs that use a LAN connection. In this example, messages are sent to these signs using an Alpha® Ethernet Adapter, which is connected to a LAN:



12. Continuing from the previous step, select *Add* from the *Connection Device Editor* window. Then select *Ethernet Adapter* from the list, followed by *OK*:



13. Once you select *OK*, the following window appears:

NOTE

To finish setting up an Alpha® Ethernet Adapter connection, create a site using Site Manager.

To see an example of this, see "Creating the Sales site — a LAN example" on page 25.

Connection Device Editor	×
Default Connection Device	Add
	Edit
Available Connection Devices:	Remove
Ethernet Adapter Local Wired Com 2 Modem on Com 1	Rename
WaveWare Pager Wireless Com 1	Make Default
	Custom
	ОК

14. If you want to change any of the Alpha® Ethernet Adapter settings, make sure *Ethernet Adapter* is highlighted as above and then select *Edit*. Use the following window to change the settings, and then select *OK*:

Table 6: Alpha® Ethernet Adapter setup

	Ethernet A	dapter
A B	General COM Po Data Fo Baud Ra IP Port	Settings rt: COM1 I Modem mat: 7E2 I Veless ate: 9600 I TCP/IP 3001
	Modem	nit String: Packet Delay: 2
		OK Cancel
ltem	Name	Directions
A	TCP/IP	This must be checked.
В	IP Port	The default setting is 3001 for Alpha® Ethernet Adapters.

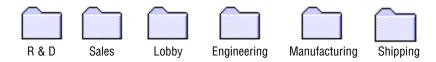
15. Finally, choose one of the devices as a default and then select *Make Default*. Select *Yes* at the prompt. Then, since we are finished adding devices in this example, select *OK*.



Step 2: Creating or changing the sites

Before creating the sites, there must be a device for each site. Since we did this is step 1, we can continue.

These are the sites we have to make for our imaginary company. Notice that many of them are just departments within the company. Sites/signs typically are named by location:

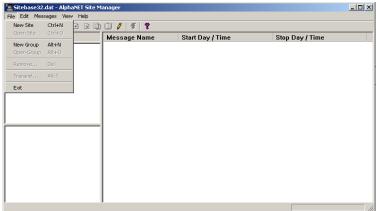


Creating the R & D site — a modem example

- **1.** There are two signs in the R & D site (see "Schematic of the tutorial company" on page 10). One of these signs must be given an address of *01* and the other sign an address of *02* (see "How to change a sign's serial address" on page 7).
- **2.** To create the R & D site, open *Site Manager* if it is not already opened:



3. Select *File>New Site*:



4. After selecting *New Site*, the *Site Editor* window appears:

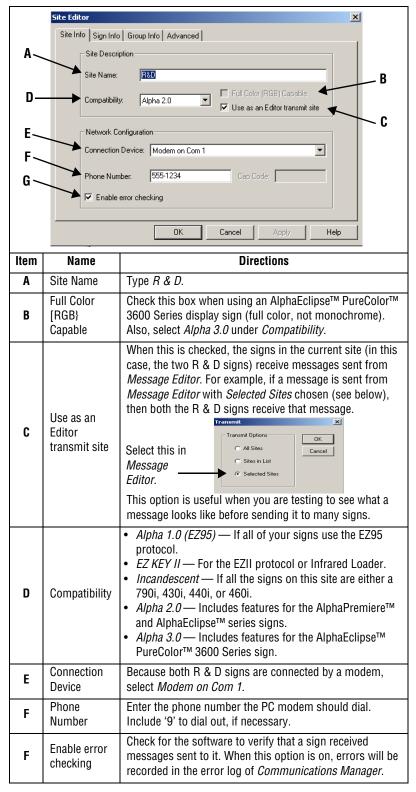


Table 7: R & D setup (1 of 4): Site Editor (Site Info) window

NOTE

Be careful when you check *Use* as an Editor transmit site for more than one site.

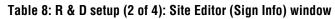
Whenever you transmit *To Selected Sites* in *Message Editor*, the message will go to all sites designated as a transmit site.

This means you may have messages going to signs you did not intend to use.

NOTE

If you have signs networked together that use both the *Alpha 1.0* and *Alpha 2.0* protocols, select *Alpha 2.0*.

Also, if a site includes signs which use different protocols, some of the AlphaNET[™] 3.0 software features may not work. Different sites should be created for signs with different protocols. 5. Next, enter information on the *Sign Info* tab:



	Site Editor	X
		Group Info Advanced
	Sign Addresses	Tone on Receipt A
B —	Address List:	01, 02 © None C Single Beep
	Counters	O Three Beeps
C —	Counter File	None O Tune File
	Automode Table	Duration: 2
D —	Automode File	None Repeat: 0 G
	Tune File	Memory
E —	Tune File	None Extended Memory
		J
		OK Cancel Apply Help
ltem	Name	Directions
		• Select Single Beep, Three Beeps, or Custom Tone (create
		your own tone) if you want the signs in the address list to
	Tone on	beep each time these signs receive a new message.
A	Receipt	• Select <i>Tune File</i> if you want the signs in the address list to
		play a short melody each time these signs receive a new
		message. Only available on an AlphaPremiere™ 9000 sign.
		The addresses of all the signs in this particular site (in this
		case, 01 and 02 for the R & D site):
В	Address List	R & D 01 Addresses of
D	Audiess List	R & D signs
		(See NOTE at the end of
		R & D 02 (cost to F2 at the one of this example.)
	Counter	
C	File	See "How to edit a counter file" on page 73.
		Choose an automode table, if desired. (<i>Compatibility</i> on the
		<i>Site Info</i> tab must be <i>Alpha 2.0</i> or <i>Alpha 3.0</i> for <i>Automode</i>
D	Automode	<i>Table</i> to be available.)
U	File	
		See "How to create and use a custom automode sequence"
		on page 99 for more information.
		Signs in the address list can play a tune file each time they
Е	Tune File	receive a message. To do this, select <i>Tone on Receipt</i>
C	I UIIE FIIE	>Tune File. Then browse and select one of the pre- programmed tune files. Only available on an
		AlphaPremiere™ 9000 sign.
F	Duration	In seconds, the length of time each beep will sound.
		The number of times the beep (or series of beeps) will
G	Repeat	sound.
	Extended	Used for large file transmissions, such as when sending
Н	Extended Memory	graphics to a display sign. Must be selected when sending
	WEITIOLY	to an AlphaPremiere™ 9000 or AlphaEclipse™ sign.
L	l	

HINT

A long sequence of sign addresses can be entered using a comma.

For example, the address list: 5,6,7,8,9 could also be entered as 5-9.

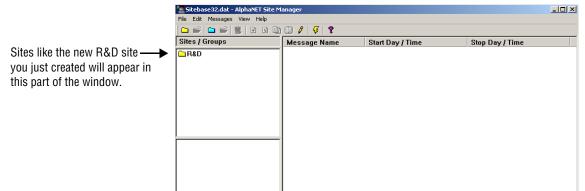
6. In this example, nothing needs to be changed on the *Group Info* tab:

1	Site Editor		×
	Site Info Sign Info Group Info Ad	vanced	
	Group Setup		ıl
	Available Groups:	Joined Groups:	
		Join Group	
		Leave Group	
		New Group	
•			
		1	
	(OK Cancel Apply Help	

7. In this example, nothing needs to be changed on the *Advanced* tab:

Offsets Time Zone:	Delayed Send Options	Dimming Options
00:00	After: 12:00 AM	Brightness %; 50 💌
Temperature:	Before: 12:00 AM 💌	Dim On Time: Dim Off Time: Never
Memory Configuration	1	
🔲 Assign Fixed Me	mory Partitions	Keyboard File Size: 10
🔲 Strings "A" - "Z"	ſ	Configure as ticker site
🔲 Strings "a" - "z"		
🔲 Strings ''1'' - ''9''		
Configuration:		

8. Select *OK* and the following appears:



Creating the Sales site — a LAN example

9. After making the R & D site, we'll create the Sales site, which consists of two signs (see "Schematic of the tutorial company" on page 10). First, select *File>New Site*:

New Site Ctrl+N Deprint Ctrl+N Deprint Ctrl+N Deprint Ctrl+O Message Name Start Day / Time Stop Day / Time New Group Alt+O					
New Group Alt+N Message Name Start Day / Time Stop Day / Time					
	Stop Day / Time	Start Day / Time	Message Name		
Open Group Alt+O					
				0	n Group Alt+C
Remove Del					ove Del
Transmit Alt-T				r	ismit Alt-T
Exit					

10. After selecting *New Site*, the *Site Editor* window appears:

	Site Editor					
	Site Info Sign Info	Group Info Advanced				
	Site Descripti	on				
A —	Site Name:	Sales				
D —	Compatibility:	Alpha 1.0 (EZ35) Full Color (RGB) Capable				
	Network Con	figuration				
Е —	Connection D	evice: Ethernet Adapter				
F	IP Address:	192.67.12.189 Cep Code:				
G	Enable en					
-						
	OK Cancel Apply Help					
ltem	Name	Directions				
Α	Site Name	Type Sales.				
В	Full Color [RGB] Capable	Check this box when using an AlphaEclipse [™] PureColor [™] 3600 Series display sign (full color, not monochrome.) Also, select <i>Alpha 3.0</i> under <i>Compatibility</i> .				
C	Use as an Editor transmit site	See "R & D setup (1 of 4): Site Editor (Site Info) window" on page 22.				
D	Compatibility					
E	Connection Device	Because the Sales sign is connected by an Alpha® Ethernet Adapter, select <i>Ethernet Adapter.</i>				
F	IP Address	Specify the 4-node Internet Protocol address for this sign. See your network administrator if you do not know this address. See the Networking Alpha® Signs manual (pn 9700-0112) for information about assigning an address to an ethernet adapter.				
G	Enable error checking	Check this if you want the software to verify that a sign received messages sent to it. When this option is on, errors will be recorded in the error log of <i>Communications Manager</i> .				

Table 9: Sales setup (1 of 4): Site Editor (Site Info) window

11. Next, enter information on the *Sign Info* tab:

Site Editor × Site Info Sign Info Group Info Advanced A Sign Addresses Tone on Receip None R Address List: 01,02 🔿 Single Beep Three Beeps cCounters c Tune File C Counter File. None С Custom Tone ۰F Automode Table Duration: D Automode File... None G 0 Repeat Tune File Memory н None Extended Memory Е пκ Cancel Help Item Name Directions See "R & D setup (2 of 4): Site Editor (Sign Info) Tone on A Receipt window" on page 23. The addresses of the Sales signs are01 and 02: Addresses of the Sales Sales 01 В Address List signs (See NOTE at the end of 02 Sales this example.) C Counter File... See "How to edit a counter file" on page 73. Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table... to be available.) Automode D File... See "How to create and use a custom automode sequence" on page 99 for more information. Signs in the address list can play a tune file each time they receive a message. To do this, select *Tone on Receipt* >*Tune File*. Then browse and select one of the Ε **Tune File** pre-programmed tune files. Only available on an AlphaPremiere[™] 9000 sign. F Duration In seconds, the length of time each beep will sound. The number of times the beep (or series of beeps) will G Repeat sound. Used for large file transmissions, such as when sending Extended graphics to a display sign. Must be selected when Н Memory sending to an AlphaPremiere[™] 9000 or AlphaEclipse[™] sign.

Table 10: Sales setup (2 of 4): Site Editor (Sign Info) window

HINT

A long sequence of sign addresses can be entered using a hyphen.

For example, the address list: 5,6,7,8,9 could also be entered as 5-9.

12. In this example, nothing needs to be changed on the *Group Info* tab:

Site Editor		×
Site Info Sign Info Group Info Ac	Ivanced	
Group Setup		
Available Groups:	Joined Groups:	
		Join Group
		Leave Group
		New Group
	I	
	OK Cancel App	ly Help

13. In this example, nothing needs to be changed on the *Advanced* tab:

Offsets Time Zone: 00:00 Temperature: N/A Memory Configuration	Delayed Send Options Use Send Times After: 12:00 AM V Before: 12:00 AM V	Dimming Options Image: Photocell Enabled Brightness %: 50 Dim On Time: Never Im Off Time:
Assign Fixed Me	mory Partitions	Keyboard File Size: 10
Strings "a" - "z" Strings "1" - "9"		
Configuration:		



	• • • •			
🔁 Sitebase32.dat - AlphaNET Site M	anager			- U ×
File Edit Messages View Help				
	🕄 🥖 😽 🧣			
Sites / Groups	Message Name	Start Day / Time	Stop Day / Time	
R&D				
Sales				
Ready				11.
	File Edit Messages View Help Sites / Groups GR&D Sales	Sites / Groups R&D Sales	File Edit Messages View Help Sites / Groups Message Name Start Day / Time BR&D Sales Message Name Start Day / Time	File Edit Messages View Help Sites / Groups Message Name Start Day / Time Start Day / Time

Creating the Lobby, Engineering, and Manufacturing sites — a wired example

15. After creating the Sales site, we'll create the Local sites. First, we'll create the two lobby signs. Select *File>New Site*:

		haNET Site N	1anager			-0
e Edit Mes New Site Open Site	Ctrl+N Ctrl+O		S / F ?			
New Group	Alt+N	-	Message Name	Start Day / Time	Stop Day / Time	
Open Group Remove	Alt+O Del	-				
Transmit						
Exit						

16. After selecting *New Site*, the *Site Editor* window appears:

Table 11: Lobby setup (1 of 4): Site Editor (Site Info) window

	Site Editor	×			
	Site Info Sign Info Group Info Advanced				
	Site Description -				
A	Site Name:	Lobby			
D—	Compatibility:	Alpha 1.0 (EZ95) Full Color (RGB) Capable			
E	Network Configur	ation e: Local Wired Com 2			
F	Phone Number:	Cap Code:			
		OK Cancel Apply Help			
ltem	Name	Directions			
A	Site Name	Type <i>Lobby</i> .			
В	Full Color [RGB] Capable	Check this box when using an AlphaEclipse [™] PureColor [™] 3600 Series display sign (full color, not monochrome). Also, select <i>Alpha 3.0</i> under <i>Compatibility</i> .			
C	Use as an Editor transmit site				
D	Compatibility	See "Sales setup (1 of 4): Site Editor (Site Info)			
E	Connection Device	window" on page 25.			
F	Enable error checking				

17. Next, enter information on the *Sign Info* tab:

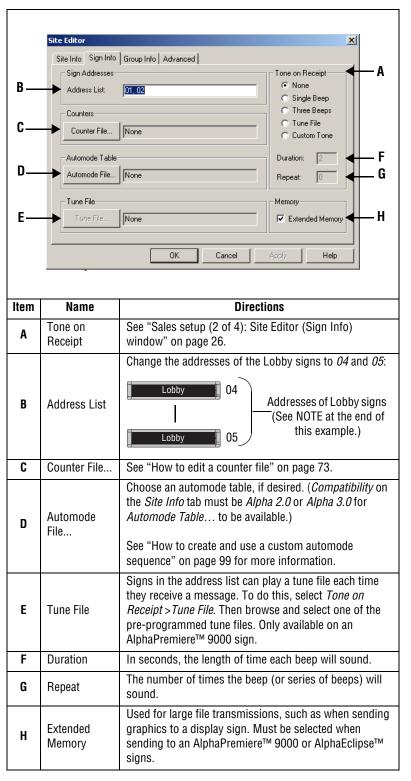


Table 12: Lobby setup (2 of 4): Site Editor (Sign Info) window

HINT

A long sequence of sign addresses can be entered using a hyphen.

For example, the address list: 5,6,7,8,9 could also be entered as 5-9.

Site Editor Site Info Sign Info Group Info Advanced	×
Group Setup	
Available Groups: Joined Groups: Join Group Leave Group New Group	
OK Cancel Apply Help	

18. In this example, nothing needs to be changed on the *Group Info* tab:

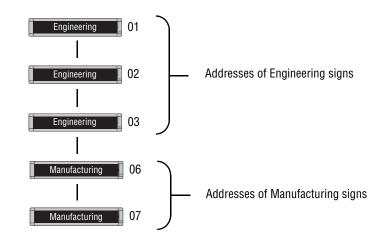
19. In this example, nothing needs to be changed on the *Advanced* tab:

Offsets Time Zone: 00:00 V Temperature: N/A V	Delayed Send Options Use Send Times After: 12:00 AM 💌 Before: 12:00 AM 💌	Dimming Options Image: Photocell Enabled Brightness %: 50 Dim On Time: Never
Memory Configuration Assign Fixed Mem Strings "A" - "Z" Strings "a" - "Z" Strings "1" - "3" Configuration:	nory Patitions	Keyboard File Size: 10

20. Select *OK* and the following appears:

🖀 Sitebase32.dat - AlphaNET Site M	lanager			_ 🗆 🗡
File Edit Messages View Help				
	1 🖾 🥖 😴 🤋			
Sites / Groups	Message Name	Start Day / Time	Stop Day / Time	
□ Løbby □ R&D □ Sales				
Ready				

The new Lobby site will appear in this part of the window along with the other sites you created. **21.** The Engineering and Manufacturing sites are created just like the Lobby site. However, make sure that addresses of the Engineering and Manufacturing signs are set as follows:



NOTE: To set the address of a sign see "How to change a sign's serial address" on page 7.

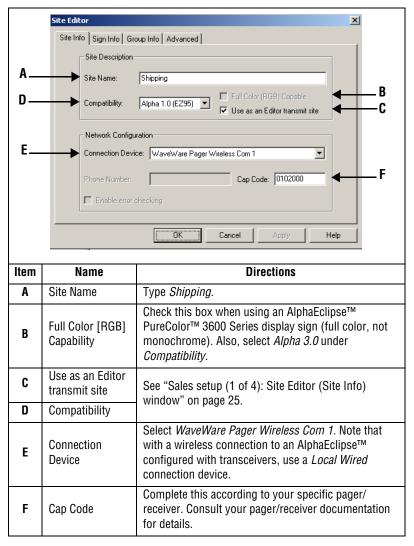
Creating the Shipping site — a wireless example

22. The last site we have to create is Shipping, which is a wireless site. Select *File>New Site*:

Sitebase32 File Edit Mes			anager			_ 🗆 ×
New Site	Ctrl+N		S / # ?			
Open Site		_	Message Name	Start Day / Time	Stop Day / Time	
New Group	Alt+N					
Open Group	Alt+O	_				
Remove	Del					
Transmit	Alt-T					
Exit						
			,			

23. After selecting *New Site*, the *Site Editor* window appears:

Table 13: Shipping setup (1 of 4): Site Editor (Site Info) window



24. Next, enter information on the *Sign Info* tab:

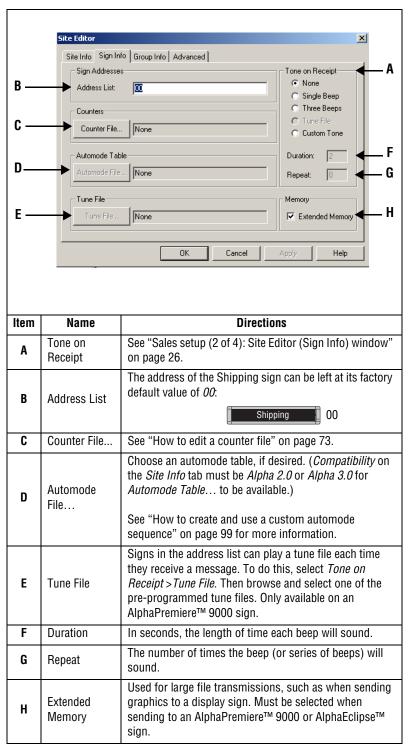


Table 14: Shipping setup (2 of 4): Site Editor (Sign Info) window

Available Groups:	Joined C	àroups:	Join Group Leave Group New Group
-------------------	----------	---------	--

25. In this example, nothing needs to be changed on the *Group Info* tab:

26. In this example, nothing needs to be changed on the *Advanced* tab:

Offsets Time Zone:	Delayed Send Options	Dimming Options Photocell Enabled
00:00	After: 12:00 AM 💌	Brightness %: 50 💌
Temperature:	Before: 12:00 AM	Dim On Time: Dim Off Time: Never
Memory Configuration		
🔲 Assign Fixed Me	mory Partitions	Keyboard File Size: 10
🔲 Strings "A" - "Z"	I	Configure as ticker site
🔲 Strings "a" - "z"		
🔲 Strings ''1'' - ''9''		
Configuration:		

27. Select OK and the following appears:

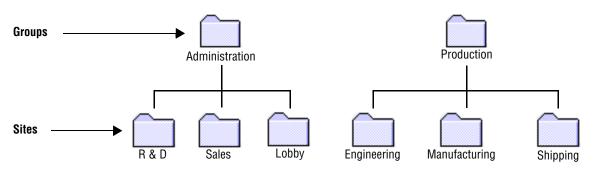
	🔁 Sitebase32.dat - AlphaNET Site M	anager			
	File Edit Messages View Help				
		🕄 🖊 😽 🎖			
	Sites / Groups	Message Name	Start Day / Time	Stop Day / Time	
The new Shipping site will appear in this part of the window.	C Engineering Lobby Nandosturing Sales Sales Shipping				
	Ready	1		ALL MESSAGES	

Step 3: Creating or changing the groups

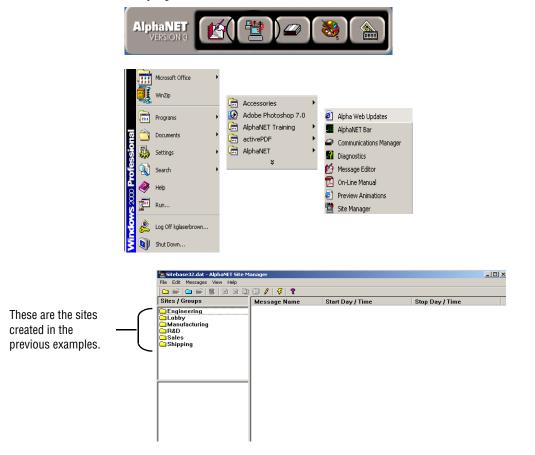
A group is a collection of one or more sites. In our imaginary company, there are two groups, Administration and Production.

Groups are a convenient method of organizing sites into categories so that messages can easily be sent to multiple sites.

For example, in our imaginary company, we might have a message intended for just the R &D site or just the Sales and Lobby sites. However, many times we will want a message to go to the R & D and the Sales and the Lobby sites. This is where groups come in. A group is a method of sending messages to several sites.



1. To create the Administration group, open *Site Manager* if it is not already opened:



2. Select *File>New Group*. The following appears:

Group Editor		×
Group Name:		ОК
All Sites: Engineering Lobby Manufacturing R&D Sales Shipping	Sites in this group:	Cancel
		Include Site Remove Site
		Remove Site

3. For *Group Name*, type *Administration*. Next, click *R* & *D* and then *Include Site* to add the R & D site to the Administration group. (You can also double-click the sites to include them.) Add the Sales and Lobby sites to the Administration group in the same way:

HINT

Use the *Ctrl* key to select multiple sites.

Also, you can double-click a site to include it. However, to exclude a site, you must select it in the right column and then click *Remove Site*.

Group Editor		×
Group Name: Administration All Sites: Engineering Lobby Manufacturing R&D Sales Shipping	Sites in this group: Lobby R&D Sales	Cancel
		Include Site
		Remove Site

4. When you are finished adding the Sales and Lobby sites, select *OK* and the following appears:

	🔁 Sitebase32.dat - AlphaNET Site M	lanager		>
	File Edit Messages View Help			
		I 🖾 🥖 🐺 🤋		
	Sites / Groups	Message Name	Start Day / Time	Stop Day / Time
Groups, like Administration,	Caller Strengthered Strengthere			
	Ready	,		

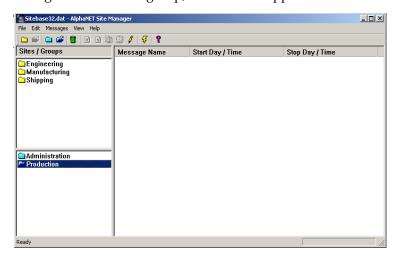
5. To see the sites that belong to a single group, just click on that group. The folder for the group will open and only the sites in that group will be listed:

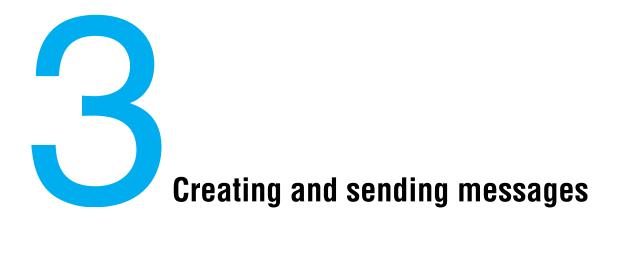
NOTE

To return to seeing all sites, hold down the *Ctrl* key while clicking once on the name of the group you just chose in this step. The folder icon for that group will close and all other sites will be listed.

1	🔄 Sitebase32.dat - AlphaNET Sit	e Manager	
	File Edit Messages View Help		
] 🗀 📽 🖿 📽 🔁 🖻	Ba 🕼 🥖 😽 📍 😮	
	Sites / Groups	Message Name	Start Day / Time
When you select a group, the sites in the group appear.	C Lobby R8D Sales		

6. The Production group is created almost exactly like the Administration group. However, the Production group is made up of the Engineering, Manufacturing, and Shipping sites. After adding the Production group, this window appears:





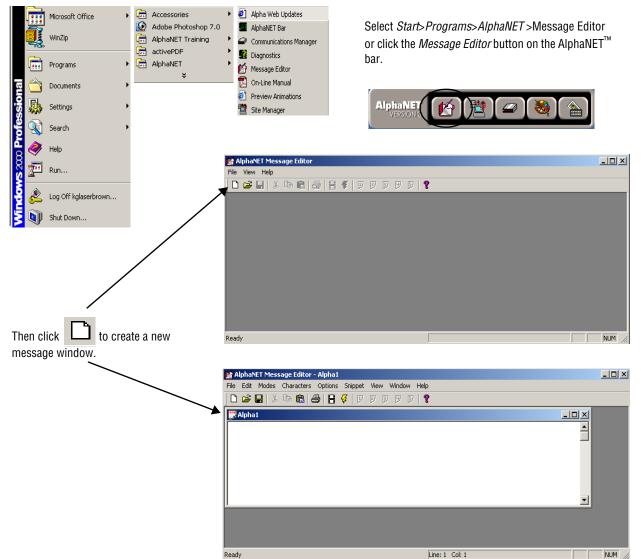
Basic message editing

Because AlphaNET[™] 3.0 software allows you an infinite number of ways to create a message for a sign, it is not possible to show every one. In the following pages, however, examples of basic and advanced message editing are presented.

First, the basics.

Using Message Editor to create your message

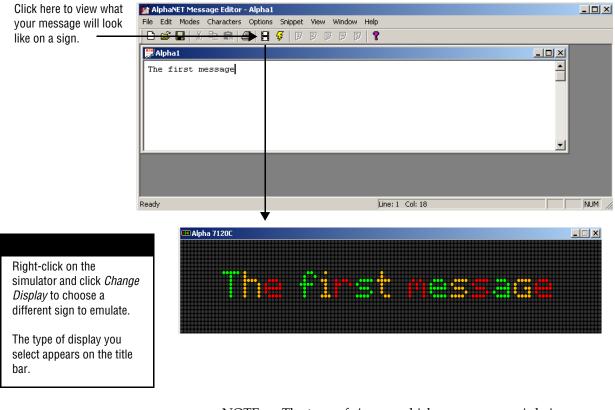
1. After installing the AlphaNET[™] 3.0 software on your PC, open *Message Editor*. Then open a window for a new message:



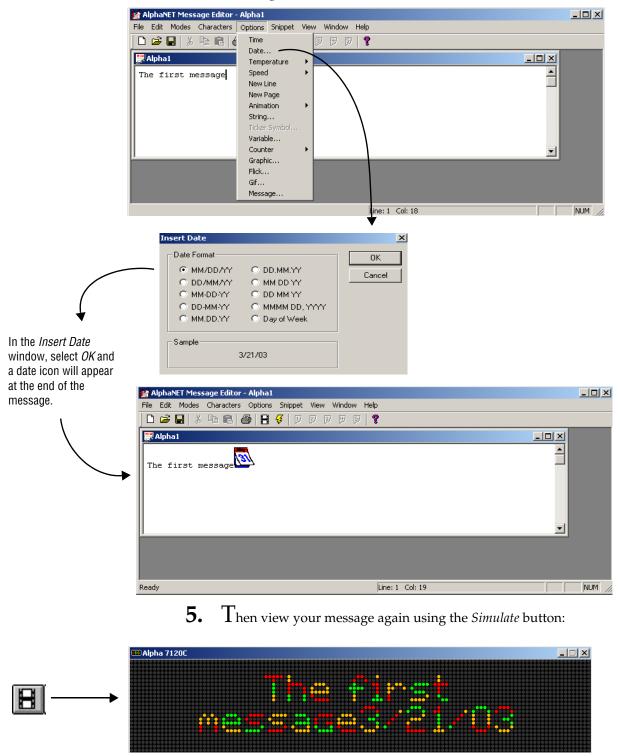
2. Type *The first message* in the window:

🚰 AlphaNET Message Editor - Alpha1	
File Edit Modes Characters Options Snippet View Window Help	
D 😅 🖬 X 🛍 🖻 🚭 😝 🗗 🗗 🗗 🔛 🔛 🔛 🧣	
Alpha1	1
The first message	
Ready Line: 1 Col: 18	

3. Use *File>Simulate* to view what the message will look like on a sign, or click the *Simulate* button on the toolbar:



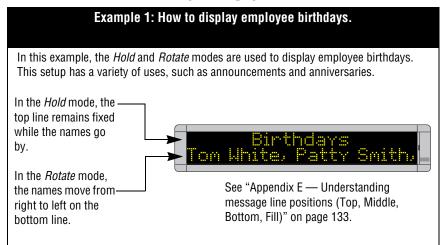
NOTE: The type of sign on which your message is being simulated appears on the title bar of the window (in this case, an Alpha® 7120C). To change it, right-click anywhere on the simulated message and select *Change Display*. **4.** Add the current date to your message. First, close the window in which your message is being simulated. Then select *Options>Date* in *Message Editor*:



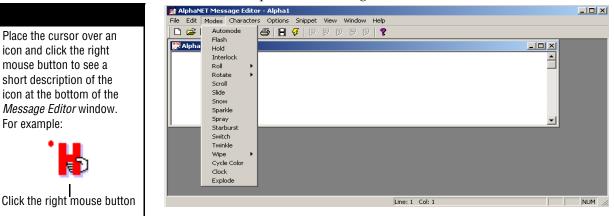
Using modes to change the look of a message

Modes are special effects that change the way a message appears on a sign. For example, the Rotate mode moves a message from right to left across a sign. In this example, you will create a message that displays employee birthdays.

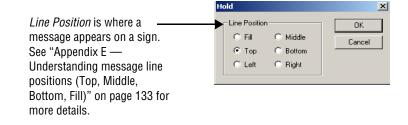
NOTE: Some modes are not available on some signs. For a list of what modes are available, see "Appendix B — Modes available on signs" on page 129.



6. To create Example 1, close the previous message but don't save it. Next, open a new message. Then select Modes>Hold:



When the following window appears, select Top and then OK: 7.



For example:

Top Hold

You can also switch

and using text

the icon style

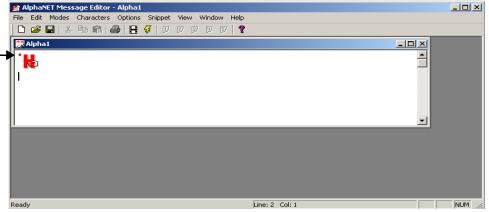
by selecting Edit >Customize and changing

between using pictures

descriptions for the icons

This little marker indicates that the text following this icon will appear on the top line of a display.

8. The icon for *Hold* will appear in the message window:

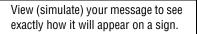


9. Type *Birthdays*. Then select *Modes*>*Rotate*>*Standard*>*Bottom*. Click *OK* and then type: *Tom White, Patty Smith, Bob Evan*.

Modes Automode Flash ...and the Bottom line position. Hold Interlock Rotate × Roll Line Position Rotate Standard ОК Scroll Condensed O Fill O Middle Cancel Slide ○ Тор Bottom Snow Sparkle C Left O Right Spray Starburst Switch Twinkle Wipe Cycle Color Clock Explode 😭 AlphaNET Mes ge Editor ha1 File Edit Modes Characters Options Snippet View Window Help D 🗃 🖬 🐰 🖻 💼 🎒 🔡 🞸 👂 🖻 🖗 🖗 🖇 🚆 Alpha 1 εÐ Birthdays. AB Tom White, Patty smith, Bob Evans Line: 3 Col: 34 Ready

Select Rotate>Standard

10. Next, click **H** to view your message:



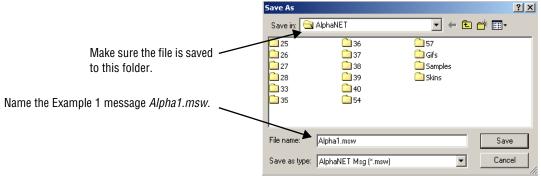
You can see how fonts, colors, and graphics will appear on a sign and also how much text will appear on a line. (If text appears in white, this means it is too long to fit on the display. If possible, break the text into smaller segments.)

For example, these pictures show how the message you just created would appear on a one-line Alpha® 215C sign.





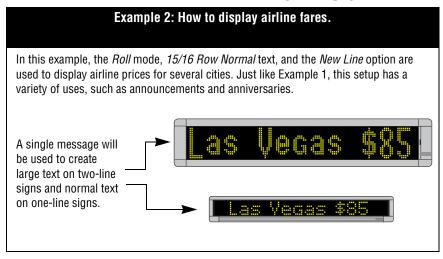
11. Save this message by selecting *File>Save* and then clicking *OK*:



Using characters to change the look of a message

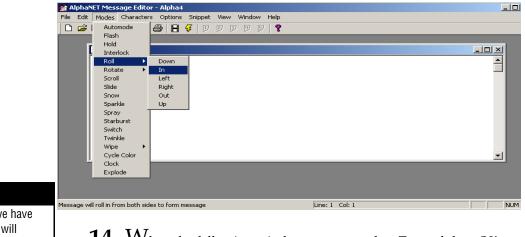
Characters are options that change the appearance of text in a message. For example, normal-sized text (called *Seven Row Normal*) is seven rows of LEDs high, but some signs allow you to create text 15 or 16 rows high with the *15/16 Row Normal* option. In this example, we will create a message that displays airline fares.

NOTE: Some characters are not available on some signs. For a list of what is available, see "Appendix C — Character fonts and colors available on signs" on page 131.



12. Select *File>New* to open a new message.

13. Then select *Modes*>*Roll*>*In*:



By selecting *Top*, we have made an error that will show up later.

The purpose of this is to demonstrate a common mistake and how to correct it.

14. When the following window appears, select Top and then OK:

Roll In		×
Line Position		ОК
C Fill	O Middle	Cancel
Top	O Bottom	
C Left	C Right	
L]

- 🚰 AlphaNET Message Editor Alpha4 ile Edit Modes Characters Options Snippet View Window Help
 □
 □
 ↓
 15/16 Row Normal

 15/16 Row Fancy
 15/16 Row Fancy
 3 9 5 9 Ten Row 🗒 Alpha Seven Row Normal Seven Row Fancy Five Row **^** ¢₹ Condensed Custom Color Normal Ctrl+R Wide Double Wide Ctrl+W Ctrl+B Flashing Double High Ctrl+L Ctrl+D True Descen Fixed Width Ctrl+T Ctrl+F Shadow Ctrl+H Characters will be 15 or 16 rows tall in a block style Line: 1 Col: 2 NUM 🚰 AlphaNET Message Editor - Alpha4 File Edit Modes Characters Options Snippet View Window Help 🗅 😅 🖬 👗 🖴 🖪 😴 🛛 🕫 🐨 🕫 🤶 15/16 Row 🚆 Alpha4 Normal icon ₽₹ 🔒 🔒 Las Vegas \$85, Chicago \$199, New York \$235
- **15.** Because we want large text, select *Characters*>15/16 *Row Normal*. Then type *Las Vegas* \$85, *Chicago* \$199, *New York* \$235:

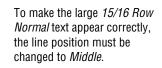
16. Let's see how the message looks so far. First, let's try a one-line sign. Simulate your message and change the sign to a 215C. (If you do not remember how to do this, see step 3.) The message should look like this:



17. Change the sign to a 4120C, a two-line sign. (If you do not remember how to do this, see step 3.) This is how it should look:

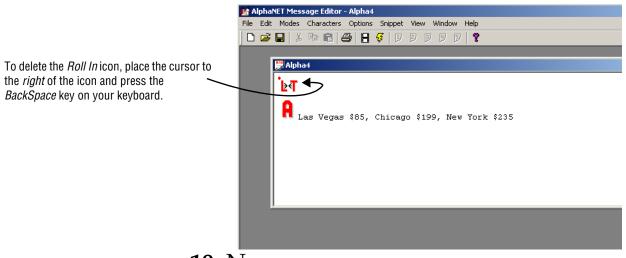
Las Vegas \$85, Chicago

Why doesn't the large text appear on the two-line 4120C sign like we wanted? Because in a previous step we selected the *Top* instead of the *Middle* or *Fill* line position:



Roll In	×
Line Position C Fill C Middle C Top C Bottom C Left C Right	OK Cancel

18. To make the large *15/16 Row* characters appear correctly on a two-line sign, start by deleting the *Roll>In* icon from the message:



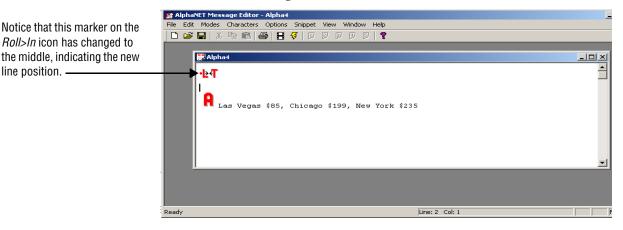
19. Next, without moving the cursor in the message, select *Modes*> *Roll>In* as you did before. When the following window appears, select the *Middle* line position:



20. Simulate the message using a two-line sign like the 4120C. (If you do not remember how to do this, see step 3.) The *15/16 Row Normal* text should now appear correctly:

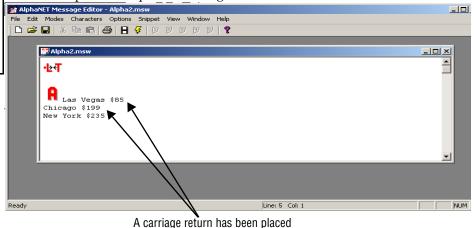


Your message text should look like this:



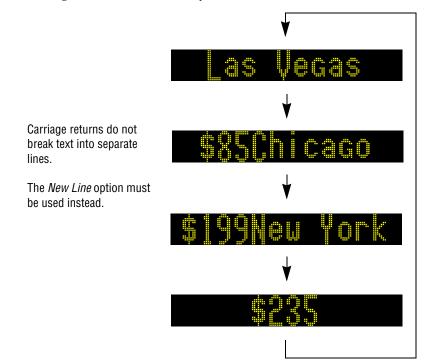
- **21.** Save your message and name it *Alpha2.msw*. However, keep using the message for the following steps.
- **22.** Now we will try displaying a city name and dollar amount on a sign at the same time.

Try deleting the comma and space between each city and amount pair. Then place a carriage return after each, like this:



after each line of text.

23. Next, simulate the message to see how carriage returns affect the message format. This is what you should see:



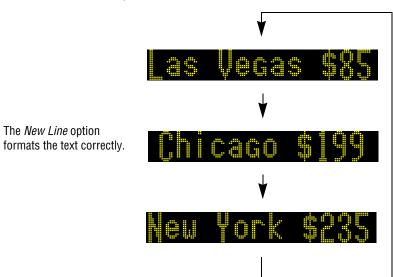
Using a carriage return might seem like the logical way to format lines of text in a message, but it does not work.

We will correct this later with the *New Line* option.

24. To format the text so that *Las Vegas \$85* and *Chicago \$199* and *New York \$235* all appear on separate lines, add the *New Line* option after each city and amount pair. To do this, use the *Options* menu:

🏰 AlphaNET Message Editor - Alpha2	.msw	<u> </u>
File Edit Modes Characters Options	Snippet View Window Help	
🗋 🗅 🚅 🔚 👗 🖻 💼 💼 🧉 Time	Ø 9 9 8 2	
Date		
Alpha2.msw Spee		
Neur		
•⊵∢ New	Page	
Anima		
String		
Las vegas	r Symbol	
Chicago \$199 Varia New York \$235 Coun		
Graph	hic	
Flick.		
Gif		
Mess	age	-1
L.		
,	Line: 3 Col: 15	NUM //
🚰 AlphaNET Message Editor - Alpha2.		
File Edit Modes Characters Options		
		
🚆 Alpha2.msw		
• ⊵ ∢		_
Las Vegas \$85		
	These are <i>New Line</i> icons.	
📃 🛛 🗎 🖶 🔺		
Chicago \$199		
New York \$235		
		-
J Ready	Line: 7 Col: 14	NUM

25. Simulate the message to see how *New Lines* affect the message format. This is what you should see:



Using international characters

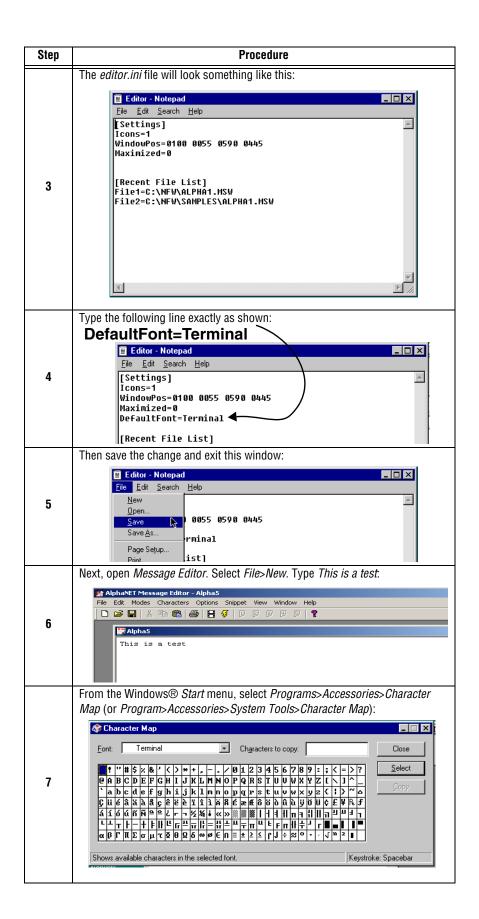
International characters—such as the *é* in *résumé*—are available in French, German, Italian, Spanish, and Croatian.

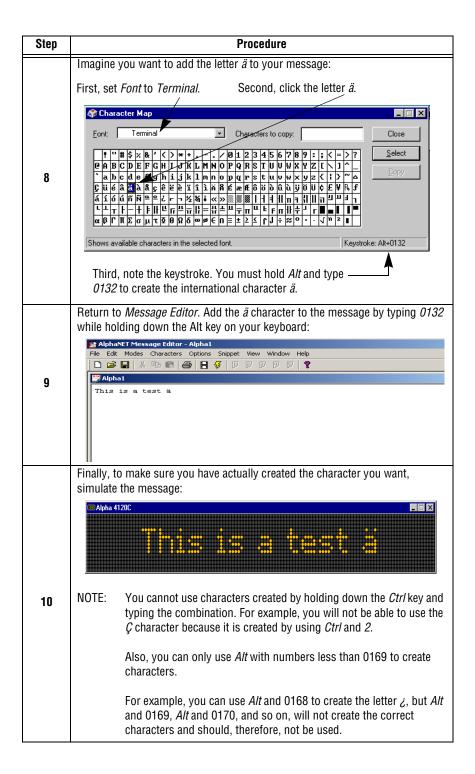
Additional characters are also available. Check the *Character Map* accessory to see if contains the character you want.

NOTE: These instructions are for a Windows® 95 operating system; menu selections and screens may be different in other versions of Windows®.

Follow this procedure to use international characters:

Step	Procedure
1	From the Windows® Start menu, select Find and then Files or Folders: Programs Documents Settings Find Elles or Folders Con The Microsoft Network Bun Shut Down
2	Use Find to locate the editor.ini file and then double-click it to open:





How to send a message to a sign

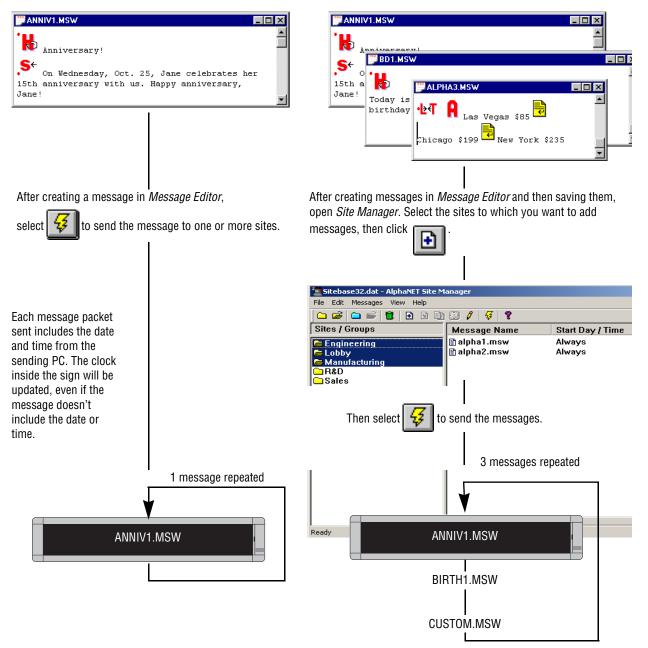
What happens when messages are sent to a sign?

Messages are sent to signs using either *Message Editor* or *Site Manager*. One message at a time is sent from *Message Editor*, and it erases all other messages in the sign's memory. This one message, then, plays over and over.

More than one message at a time can be sent from *Site Manager*, and they erase all other messages in the sign's memory. These new messages are then displayed one after the other.

When a single message is sent with *Message Editor*.

When more than one message is sent with *Site Manager*.

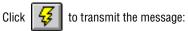


Sending messages from Message Editor

2.

Generally, only send messages from *Message Editor* when:

- testing to see how a
 message looks, or
- there is only one sign.
- **1. B**efore sending a message, you must create at least one site using *Site Manager*. (See Step-by-step tutorial in setting up connection devices, sites, and groups in Chapter 2.)
 - Next, create your message in *Message Editor*. When you are finished, send it to one or more sites:



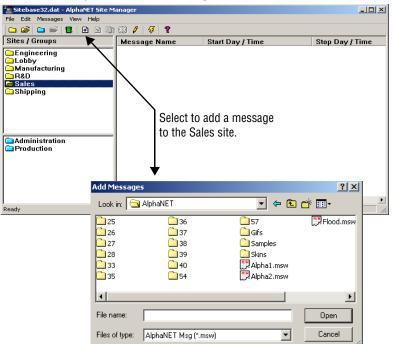
- *To All Sites* every site you have created in *Site Manager* or
- To Selected Sites only those Site Manager sites that have been specially selected as Use as an Editor transmit site. (See "R & D setup (1 of 4): Site Editor (Site Info) window" on page 22 in Chapter 2.)

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	File	Edit	Modes	Charact	ers Op	tions ?	önippet	View	Windo	wΗ	elp			
		2	B %	te f		84	P	99	F	5	?			
		Par Al	pha2											
9:		A11	mee	tings	today	are	canc	elled	due	to	flood	damage	÷.	
created in <i>Site</i>														
<i>e Manager</i> sites														
Use as an														
tup (1 of 4): Site														
22 in Chapter														
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						ransmit I	Options		7 [0	к			
						O To,	All Sites				ncel			
						• To:	Selected	Sites	-	La	icei			

Sending messages from Site Manager

To select more than one site, first hold down the *Ctrl* key on your keyboard, then click the sites:

- **1. B**efore sending a message, you must create at least one site using *Site Manager*. (See Step-by-step tutorial in setting up connection devices, sites, and groups in Chapter 2.)
- **2.** If you have not already done so, add your message to the site (or sites) to which you want the message sent:

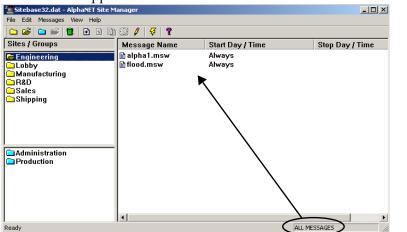


3. Next, select the message. The message can be edited, scheduled by day, date, and time, or transmitted immediately:

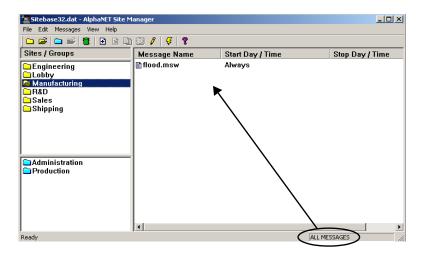
🖀 Sitebase32.dat - AlphaNET Site M	1anager			
File Edit Messages View Help				
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Sites / Groups	Mespage Name	Start Day / Time	Stop Day / Time	
Engineering Lobby Manufacturing	₿ floed.ms w	Always		Select 🔣 to set the day, date, and time when
R&D Sales				the message will start and stop on the Sales signs,
🗅 Shipping				or
				select 🥢 to edit the message in <i>Message Editor</i>
Administration				before sending it, or
				select 😺 to transmit the message immediately
 Ready	▲	ALL P	1ESSAGES	to all the signs in the Sales site.

The difference between all messages and common messages

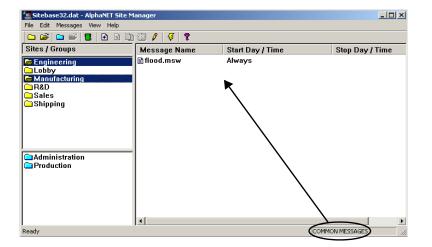
When you select a single site, all the messages attached (added) to the site will appear in the *Site Manager* window. However, when you select more than one site, only the messages that are common to both will appear.



When the Engineering site is selected, all the messages attached to the site appear.



Also, when the Manufacturing site is selected, all the messages attached to the site appear.



However, when both sites are selected, then only the messages that are common to both sites will appear.

How to use graphics in messages

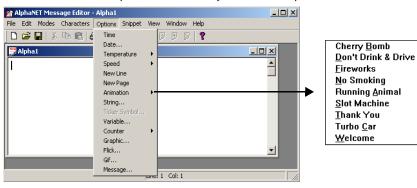
Example graphic files are included with AlphaNET™ 3.0 software.

Look in the Samples folder installed on your computer.

The *Animation, Graphic, Flick,* and *Gif* options allow you to include small pictures in messages. Use the *Graphic* option to display single bitmapped images, and the *Animation, Flick,* or *Gif* option to display multiple images—like a movie. Note that not all signs display animations.

For the *Graphic*, *Flick*, and *Gif* options, you can create the images yourself, use the animations provided (such as Running Animal, which shows a horse running across the sign), use the gif files provided, or pull an image from another source, such as the Internet.

Animation, Graphic, Flick, and Gif are in the Options menu:

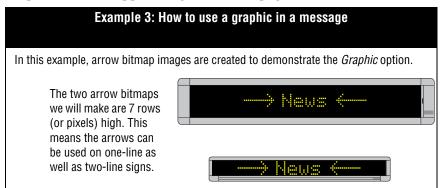


Creating a graphic

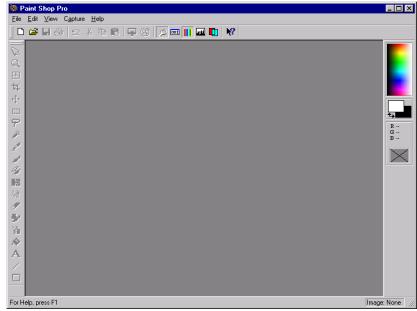
Before you actually start drawing, make sure you understand how a bitmapped image is displayed on a sign. See "Graphics must be bitmapped to a sign's columns and rows" on page 140.

You will need a program to create and edit bitmapped images. Image editing software, specifically Paint Shop Pro version 5.03, is included with AlphaNETTM 3.0 software; however, any image editing program can be used.

The image editing program used in the following example is version 5.03 of Paint Shop Pro. If you are using a different version of this application, the steps outlined in this manual can still be used. (See "Paint Shop Pro — a bitmapped image editor" on page 141.)



1. Select *Start>Programs>Paint Shop Pro 5* to open Paint Shop Pro:



- 2. Next, select *File>New*. When the *New Image* window appears, make the width and height of the new bitmap 16 x 7:
 - NOTE: *Width* and *Height* define the size of the bitmap in pixels— 16 pixels wide x 7 pixels tall. These numbers also correspond to a sign's columns and rows—16 columns wide x 7 rows tall.

New Image 🛛 🔀
Image dimensions
Width: 16
Height: 7
Resolution: 72.000 Pixels / inch V
Image characteristics
Background color: Foreground Color
Image type: 256 Colors (8 Bit)
Memory Required: 1.1 KBytes
OK Cancel Help

 We are using 7 because this is the height of a single line of normal text on a sign.

If you are not using Paint Shop Pro software, don't worry.

Most bitmap image editing programs create images in a manner similar to Paint Shop Pro.

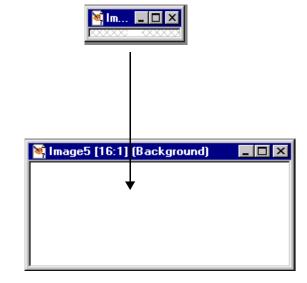
However, if you are not using Paint Shop Pro, consider using software that has a zoom feature so you can increase the size of the bitmap for ease of editing.

Because a maximum of 8 colors can be used on signs, select 16 colors instead of 256 in your bitmap editing program. 3.

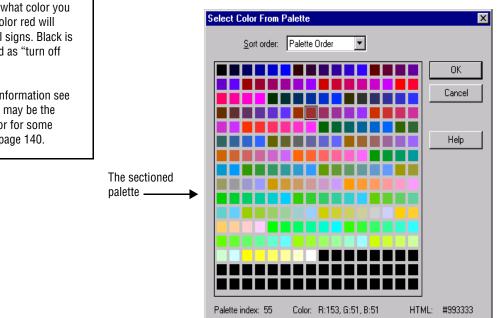
 ${
m A}$ very small window will appear. Use the zoom tool to click in the window to increase its size to 16:1:

Use the zoom feature to increase the size of the small window until the window says 16:1.

At 16:1, editing the graphic is much easier.



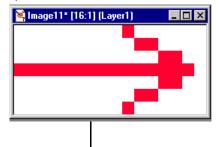
Select a color for your graphic from the blended palette on the **4**. right-hand side of your screen. You can also double-click the foreground or background rectangle underneath the blended palette to choose a color from a sectioned palette.



Be careful what color you use. The color red will work on all signs. Black is understood as "turn off LEDs."

For more information see "A graphic may be the wrong color for some signs" on page 140.

5. Then draw the right arrow and save it as a BMP bitmap named *rarrow.bmp*:

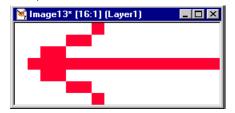


Name the graphic *rarrow.bmp*.

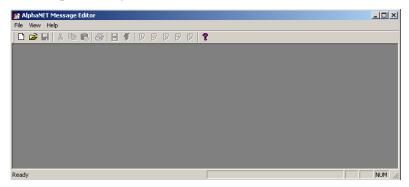
L

Save As					? ×
Save jn:	🔁 Graphic	\$	•	Ĕ	
AppleFileIn Diagnostics Internationa ship BigWin.bmp MewImage.	program I chars I	Ø NewImageZoom.bmp Ø Palette.bmp Ø PSP.bmp Ø PSPMainScr.bmp Ø <mark>Rarrow.bmp</mark> Ø SmallWin.bmp)		
File <u>n</u> ame:	Rarrow.bmp	0			<u>S</u> ave
Save as <u>type</u> :	Windows o	r OS/2 Bitmap (*.bmp)	•		Cancel
					<u>H</u> elp
					Options

6. Create the other arrow (shown below) using steps 2 through 4 and save it as *larrow.bmp*:



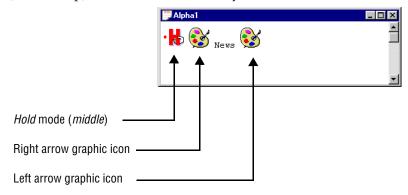
7. Next, open Message Editor. Then select File>New:

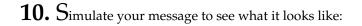


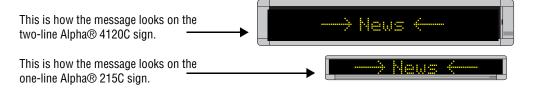
8. Select *Modes>Hold*, using the *Middle* line position. Then select *Options>Graphic*. When the *Select Graphic* window appears, choose the *rarrow.bmp* (right arrow) file you just created:

Select Graph	ic	<u>?</u> ×
Look in: 🧲	AlphaNET	- 🖬 🍅 🖬 -
25 26 27 28 33 33 35	 36 37 38 39 40 54 	☐ 57 ☐ Gifs ☐ Samples ☐ Skins Larrow.bmp Rarrow.bmp
File name:	*.bmp	Open
Files of type:	Bitmap (*.bmp)	Cancel

9. An icon representing the graphic will appear. Type *News* after it. Put a space before and after *News*. Finally, put the left arrow bitmap (larrow.bmp) after *News*. This is what you should now see:







NOTE: Graphics that are 24 rows high should be displayed and simulated on 3-line signs (or greater) and not on one- or two-line signs where the graphics will appear garbled.

For graphics, any mode can be used. For flicks, the *Hold* mode must be used.

For either graphics or flicks, the mode selected must use the *Middle* line position.

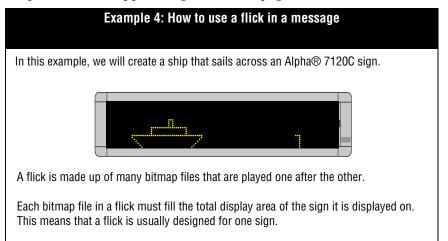
Creating a flick

NOTE: The *Flick* option will only work with AlphaVision[™] and Series 7000 signs. However, see "Another way to create a flick" on page 68 if you want to create an animation on another type of sign.

A flick is a series of bitmap images that are shown one after the other, which gives the illusion of movement on a sign. The *Flick* option is used to put a movie in a message, and is made up of individual bitmapped images that you must create.

You will need a program to create and edit bitmapped images. Image editing software, specifically Paint Shop Pro version 5.03, is included with AlphaNETTM 3.0 software; however, any image editing program can be used.

The image editing program used in the following example is version 5.03 of Paint Shop Pro. If you are using a different version of this application, the steps outlined in this manual can still be used. (See "Paint Shop Pro — a bitmapped image editor" on page 141.).



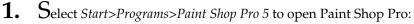
In this example, each bitmap is 120×24 pixels because we are playing the flick on a 7120C sign whose total display area is 120 columns x 24 rows.

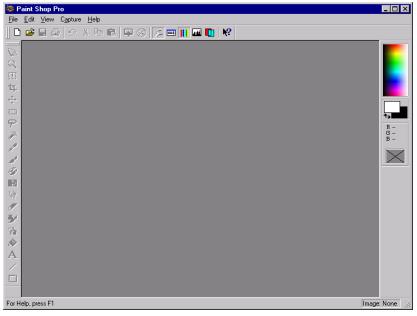
If you are not using Paint Shop Pro, don't worry. Most bitmap editing programs create images in

a manner similar to Paint

Shop Pro. However, if you are not using Paint Shop Pro, make sure that your software has a zoom feature to increase the size

of the bitmap being edited.





2. Next, select *File>New*. When the *New Image* window appears, make the width and height of the bitmap 120 x24 pixels.

Each graphic in the flick for the Alpha® 7120C sign must be this size.

NOTE: *Width* and *Height* define the size of the bitmap in pixels— 120 pixels wide x 24 pixels high. These numbers correspond to the 7120C's columns and rows—120 columns wide x 24 rows tall.

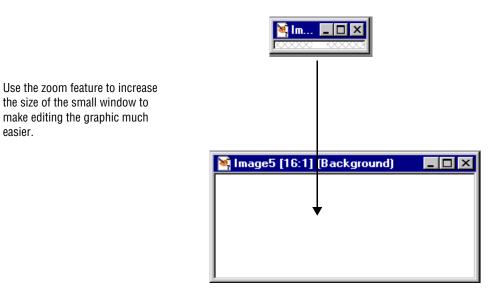
X

ne w miaye				
[Image dimen:	sions			
<u>W</u> idth:	120	× ×	► Pixels	-
Hejght:	24	×	[Fixels	
<u>R</u> esolution:	72.000	* *	Pixels / inch	-
Image charac	cteristics -			
<u>B</u> ackground	l color:	Foregro	und Color	•
l <u>m</u> age type:	256 (Colors (8 E	Bit)	
N	lemory Re	quired: 3.	8 KBytes	
ОК		Cancel	Help	,

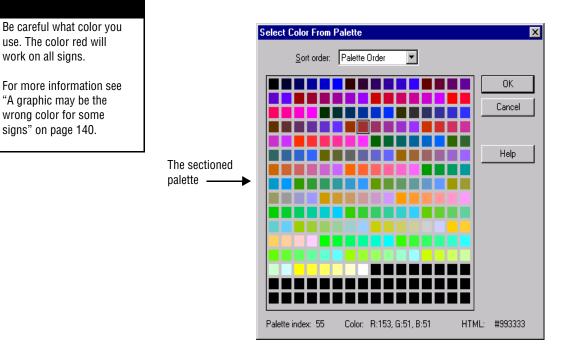
We're using 120 x 24 for width and height because this is the total display area of an Alpha® 7120C sign.

Because a maximum of 8 colors can be used on signs, select 16 colors instead of 256.

3. ${\rm A}$ very small window will appear. Use the zoom tool to click in the window to increase its size:

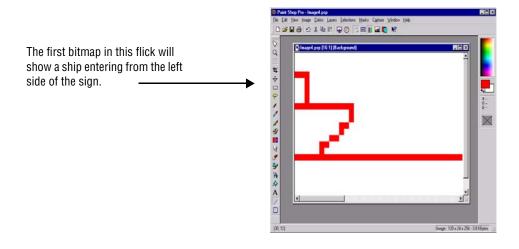


Select a color for your graphic from the blended palette on the **4**. right-hand side of your screen. You can also double-click the foreground or background rectangle underneath the blended palette to choose a color from a sectioned palette.



easier.

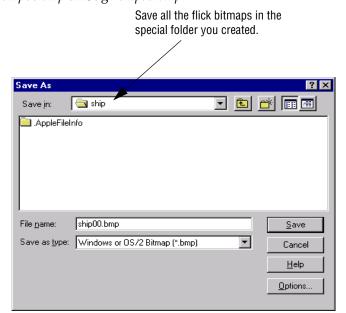
5. Then draw the first bitmap image:



6. After you are finished drawing the first bitmap, save it—and all the other flick bitmaps—in a folder named *ship*.

Name this first bitmap *ship00.bm*p and save it as a BMP file:

NOTE: The name of each bitmap in a flick is important. The first bitmap's name must end with 00, such as *ship00.bmp*. The second bitmaps's name must end with 01, such as *ship01.bmp*. The third bitmap's name must end with 02, such as *ship02.bmp*, and so on. Up to 100 bitmaps can be in a flick and must be numbered 00 to 99, such as *ship00.bmp* through *ship99.bmp*.

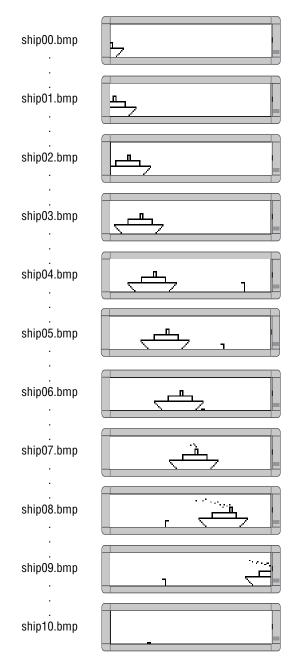


Even though up to 100 bitmaps can be in a flick, keep in mind that a sign's memory capacity is limited.

So experiment first with small flicks on a sign.

7. Create the other bitmaps in the flick. Each bitmap file must end with a consecutive number—00, 01, 02, and so on—and each bitmap must be saved as a BMP file in a special folder for the flick (*ship*, in this case).

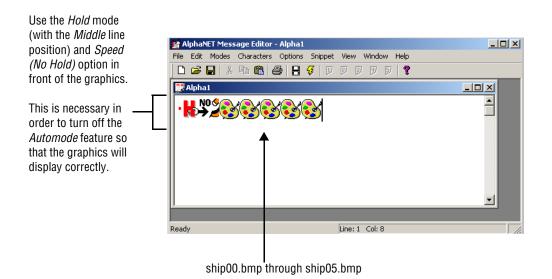
The completed flick of 11 bitmaps shows a ship crossing the screen. When the ship is about mid-screen, a submarine periscope appears in front of the ship. The periscope disappears as the ship passes above it, but pops up again behind the ship, looks around, then goes under water.



Another way to create a flick

Though the *Flick* option will only work with AlphaVisionTM and Series 7000 signs, there is another way to create the illusion of motion on a sign.

The *Graphic* option can be used to place one graphic after another in a message:



Creating a GIF

If you are not using Paint Shop Pro, don't worry.

Most editing programs create images in a manner similar to Paint Shop Pro.

However, if you are not using Paint Shop Pro, make sure that your software has a zoom feature to increase the size of the bitmap being edited. NOTE: The GIF option will only work with the 7000 series, 9000 series, AlphaVision[™] (full matrix), and AlphaEclipse[™] signs. If a different sign is used, *Extended Memory* must be checked on the *Sign Info* tab of *Site Editor* in order for this feature to work.

A GIF contains multiple images in one file that simulate animation, such as a hummingbird hovering above a flower. The GIF option is used to put moving animation in messages, and you can use the GIF files provided or create your own (see the example below). Note that GIF files are available on Adaptive's Web site at http://www.ams-i.com/Pages/ gif.htm, free and formatted.

You will need a program to create and edit your GIF images. Image editing software, specifically Paint Shop Pro version 5.03, is included with AlphaNETTM 3.0 software. (See a Paint Shop Pro manual for more information on how to use that software.) However, any image editing program can be used.

The image editing program used in the following example is version 5.03 of Paint Shop Pro. If you are using a different version of this application, the steps outlined in this manual can still be used. (See "Paint Shop Pro — a bitmapped image editor" on page 141.)

- 1. Using your Internet browser, log onto the Adaptive Micro Systems Web site at *http://www.adaptivedisplays.com/sample.htm*.
- **2.** In the upper right-hand corner of Adaptive's main page, rightclick on the *Tell a Friend* graphic and select *Save Picture As*.



Right-click on this graphic and select *Save Picture As*.

- **3.** Save the file as a GIF file to your C:\Program Files\Adaptive Micro Systems\AlphaNET directory.
- **4.** On the AlphaNET[™] bar, click the Paint Shop Pro Animation button, or select *Start>Programs>Paint Shop Pro>Animation Shop*.



- 5. Select *File>Open* and select your GIF file. Then click *Open*.
- 6. Change any colors in the GIF file if they are incompatible with your sign. Note that if black or white is used in a GIF or BMP file, the sign thinks you want it to turn off those particular LEDs. Try using a different color.

Be careful what color you use. The color red will work on all signs.

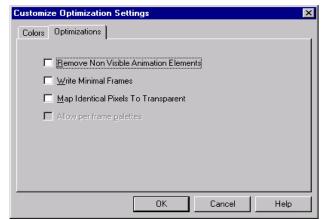
For more information see "A graphic may be the wrong color for some signs" on page 140. **7.** Select *Edit*>*Resize Animation* and resize the file to your sign's specifications. Make sure the *Maintain aspect ratio* box is checked, and then click *OK*:

Resize 🗙
C Pigel Size ∭/dth
C Percentage of Original Wigth 100 = x Height 100 =
C Actual / Print Size Width 0.944 Height 0.333
Resolution 72 Pixels / inch
Resize Type Smart size
Maintain aspect ratio of 2.8333333 to 1
OK Cancel <u>H</u> elp

- **8.** Select *File>Save*. Then click the *Customize* button on the *Animation Quality Versus Output Size* window that appears.
 - NOTE: This window appears when you save a file for the first time and then when changes are made to it. However, the settings you enter will become the default settings until you close Paint Shop Pro Animation.
- **9.** On the Colors tab, make sure the settings are as follows:

Customize Optimization Setting	s X
Colors Optimizations	
Number of Colors:	
256 colors	Greater than 256 colors
Create palette by	
Optimized Octree	C Browser palette
Optimized Median Cut	Custom palette Browse
Standard palette	
- Reduce colors by	
C Ordered Dithering	Nearest Color
C Error Diffusion	······
	OK Cancel Help

10. On the *Optimizations* tab, uncheck all the boxes and click *OK*.

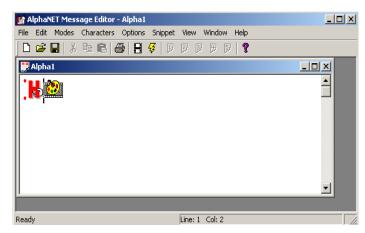


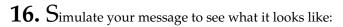
- **11.** Click the *Next* button to cycle through the remaining windows.
- $12. \ Select {\it File}{\rm >Close} \ {\rm to} \ {\rm close} \ {\rm your} \ {\rm GIF} \ {\rm file}.$
- 13. N ext, open Message Editor and create a new message.

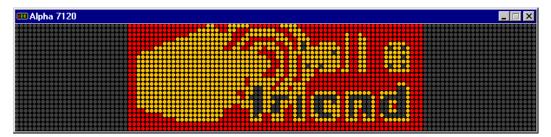
AlphaNET Message Editor - Alpha1	
ile Edit Modes Characters Options Snippet View Window Help	
D 😅 🖬 X 🖿 🛍 🎒 🛃 ኛ P P P P P ?	
Alpha1	

14. Select *Modes>Hold*, using the *Fill* line position.

15. Select *Option>Gif.* Then select your GIF file and click *OK*. An icon representing the *Hold* mode and one representing the GIF will appear in your message.







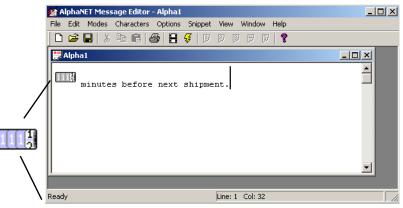
How to edit a counter file

What is a counter file?

A counter file sets up from 1 to 5 numerical counters (counter 1 through counter 5), which can be used for either or both of the following:



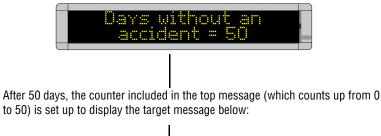
Display information in minutes, hours, or days on a sign.

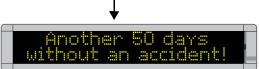


A counter can be placed inside a message. (This one is counting down from 60 minutes.)

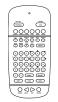


Display special messages (target files) on a sign after a set amount of time has passed.





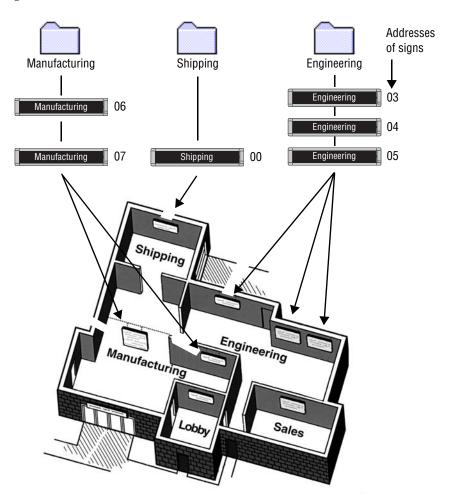
NOTE:



The software necessary to use a counter file is included in the standard Alpha® firmware for signs and allows you to program a counter file from your computer. However, the standard Alpha® firmware does not allow you to program a counter file using an infrared remote control (left).

Three examples of how to use counter files

In these examples, we discuss three basic ways of using counters on signs:



- **Example 1** Using a counter in a message on the Shipping sign. Counter 1 will be used to show a message that counts down hours.
- Example 2 Using a counter in a message and displaying a target file message on the Manufacturing signs. Counter 2 will be used to show a message that counts up days and display a target message when it reaches 50.
- **Example 3** Using a counter to display a target message on the Engineering signs. Counter 2 will be used from Example 2.

Example 1 — Using a counter in a message

In this example, we will end up with a message on the Shipping sign that counts down from 60 minutes over and over again:

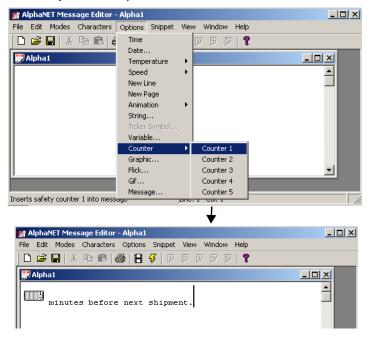
NOTE: The Shipping sign can still display other messages.



1. Open *Message Editor* and create a new message:

🚰 AlphaNET Message Editor - Alpha1	
File Edit Modes Characters Options Snippet View Window Help	
D 🚅 🖬 X 🖻 🛍 😂 🗄 🞸 ए ए ए ए ए । 🔋	
👺 Alpha1	<u>_ ×</u>
	_
	-
,	
Ready Line: 1 Col: 1	NUM //

2. Add a counter to the message by selecting *Options>Counter* and then *Counter* 1. Then, after the counter icon, type a space followed by *minutes before next shipment*:



3. Save this counter message as *countshp.msw*:

Save As			? ×
Save in: 🗋	AlphaNET		📸 🎟 -
2 5	i 36	57	🗒 Flood.msw
2 6	<u> </u>	🧰 Gifs	
27	<u> </u>	🚞 Samples	
<u>28</u>	<u> </u>	🚞 Skins	
i 33	i 40	🗒 Alpha1.msw	
i 35 🔁	5 4	🕎 Alpha2.msw	
•			Þ
File name:	countshp.msw		Save
Save as type:	AlphaNET Msg (*.msw)	-	Cancel

4. After saving the message, close *Message Editor*. Open *Site Manager* and select *Edit>Counter File*:

🔁 Si	tebase32.dat - Alpha	NET Site M	lanager		
File	Edit Messages View Connection Device				
Site	Counter File Automode File	Alt+C Alt+U	Image: Second state Image: Second state Image: Second state Image: Second state	Start Day / Time	Stop Day / Time
	Select All Deselect All Switch Pane	Ctrl+[Ctrl+] F6	🖹 alpha1.msw 🖹 flood.msw	Always Always	
	Preferences Set Password	Alt+P			
	dministration roduction				
,			1_1		ALL MESSAGES

5. Next, either open an existing counter file (like the default file shown below) or type a new file name (such as *shipping.ctw*):

Open		? ×
Look in: 🧲	AlphaNET	- 🖬 📩 🖃
25 26 27 27 28 33 33 35	36 37 38 39 40 54	C 57 Gifs Samples Skins
File name:	default.ctw	Open
Files of type:	Counter Files (*.ctw)	Cancel

6. When the *Counter Setup* window appears, select the *Counter 1* tab. Then type in the values as shown below:

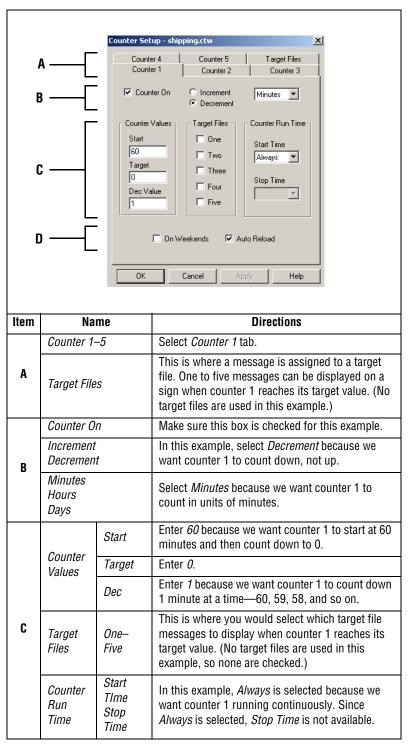




Table 23: Counter Example 1 — Counter 1 setup

	On Weekends	Since we do not need our counter running on weekends, this is unchecked.
D	Auto Reload	This box is checked because we want our counter to count down continuously. If this box was not checked, counter 1 would count down from 60 to 0 just once.

7. Select *OK* after entering the setup information. Double-click the *Shipping* site to open the *Site Editor* window:

		<mark>32.dat - AlphaNET Site M</mark> essages View Help	anager	
		• 📽 🚺 🗈 🖻 🗎	🖾 🖉 😴 🎖	
	Sites / Gro	ups	Message Name	Start Day
Double-click Shipping.	Caracteria Construction Constru	cturing		
Site Edi Site Ir	or Contract of Con		×	
	·			
	Site Name: Shipping Compatibility: Alpha 1.0 (EZ	295) 🔽 Full Color (F	RGB) Capable Editor transmit site	
	Network Configuration	re Pager Wireless Com 1		
	Phone Number:	Cap Code	e: 0102000	
	Enable error checking			
	OK	Cancel	Apply Help	

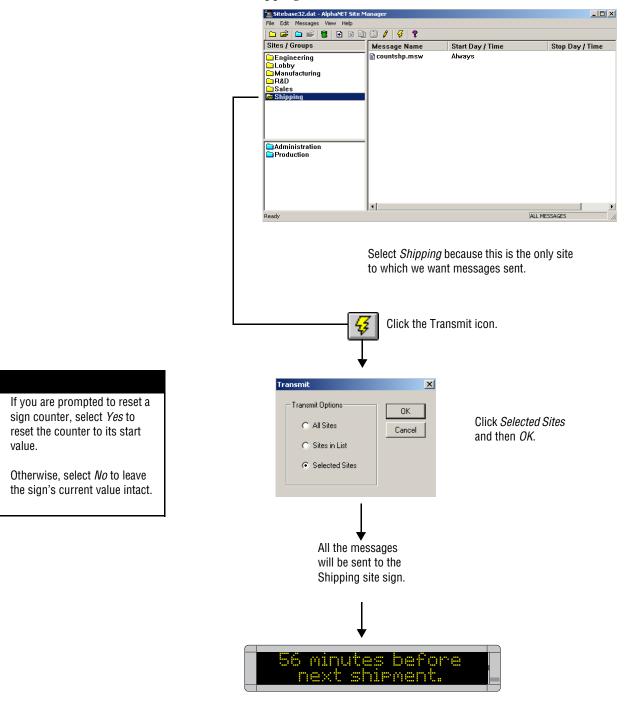
8. Next, select the *Sign Info* tab and attach the counter file you just created to the Shipping site:

	Site Editor	
	Site Info Sign Info Group Info Advanced	
	· · · ·	on Receipt
	Address List: UU	None
		Single Beep
	Counters	Three Beeps Fune File
	Counter File Interne	Custom Tone
	Automode Table Durati	ion: 2
	Automode File None Repe	at: 0
	Tune File	
	Tune File None	ktended Memory
	OK Cancel Apply	Help
	shipping.ctw). Then select OK.	
	+	_
		×
	File name: Folders: OK shipping.ctw c:\alphanet	
	shipping.ctw Cancel	
	□ 25	
	💼 27	
	28	
	List files of type: Drives:	
	Counter files (*.ctw)	
S	Site Editor	X
5	Site Info Sign Info Group Info Advanced	
S	Site Info Sign Info Group Info Advanced	
S	Site Info Sign Info Group Info Advanced Sign Addresses Tone on Rec Address List: 00 © None C Single E	eipt
5	Site Info Sign Info Group Info Advanced Sign Addresses Tone on Rec Address List: 00 © None Counters © Three B	eipt Beep Beeps
	Site Info Sign Info Group Info Advanced Sign Addresses	eipt Beep Beeps Ite
s 1	Site Info Siroup Info Advanced Sign Addresses Addresses If one on Rec Address List: 00 If one on Rec Counters Single E Three B Counter File C:\ALPHANET\shipping.ctw Custom	eipt Beep Beeps Ite
	Site Info Group Info Advanced Sign Addresses Tone on Rec Address List: 00 © None Counters © Three B Counter File C:\ALPHANET\shipping.ctw © Ture File Automode Table Duration:	eipt Beep Beeps Ide Tone
5	Site Info Group Info Advanced Sign Addresses Address List: 00 Counters Counter File C:\ALPHANET\shipping.ctw Automode Table Duration: Automode File None	eipt Beep Beeps Ide Tone
5	Site Info Group Info Advanced Sign Addresses Info Tone on Rec Address List: 00 Info Counters Info Sign Addresses Counter File C:\ALPHANET\shipping.ctw Info Automode Table Duration: Automode File None Tune File Memory	eipt Beeps ide Tone 2 0
5	Site Info Group Info Advanced Sign Addresses Address List: 00 Counters Counter File C:\ALPHANET\shipping.ctw Automode Table Duration: Automode File None	eipt Beeps ide Tone 2 0

If you want to delete a counter file from a sign, click *Counter File*, click *None*, and then click *OK*. **9.** Add the message that contains counter 1 to the Shipping site:

🔁 Sitebase32.dat - AlphaNET Site Manager				
File Ed				
	🖗 🗀 📽 🚺 🔂 🗈 🖻	83 / 7 8		
Sites	/ Groups	Message Name Start Day / Ti		
🗀 Lot	nufacturing D es			
	ninistration duction			
Select <i>Shipping</i> . Then clici				
		<[
Ready		, ,		
▼				
Add Messages		?X Coloct the message		
25 3 6 26 3 7	☐ 57 💭 countshp.i ☐ Gifs 🌐 Flood.msw			
27 <u>38</u> 28 <u>39</u>	Samples Sins	1 (<i>countshp.msw</i>).		
1 33 1 40	🕎 Alpha1.msw	Click OK		
35 🛄 54	🕎 Alpha2.msw	Click OK.		
File name:		Open		
Files of type: AlphaNET Msg (*.msw)	•	Cancel		
Sitebase32.dat - AlphaNET Site File Edit Messages View Help	Manager			
Sites / Groups	Message Name	Start Day / Time Stop D		
Engineering	countshp.msw	Always		
Lobby Manufacturing	▲			
		ded appears here after any		
Sales		ded appears here, after any		
🗁 Shipping	previously selected messages. The order in which the messages appear is the order in which they are sent to			
	a sign.	the order in which they are sell to		
	NOTE: If you want th	e new message at the start of the		
Administration		isting message and then click		
	(Insert Mess	sage) instead of []] (add		
	message).			
I	•			
Ready		ALL MESSAGES		

10. Finally, in order to display the message you just added to the Shipping sign, the message must be transmitted. To do this, select the Shipping site and then the transmit icon:

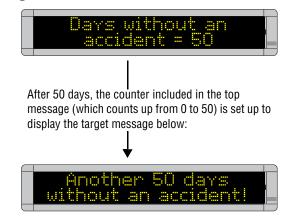


Example 2 — Using a counter in a message and displaying a target file message

In this example, we will end up with a message on the Manufacturing signs that keeps track of the number of days without an accident.

Also, when 50 days is reached, a message appears on the Manufacturing signs that reads *Another 50 days without an accident!* (this is called a target message.)

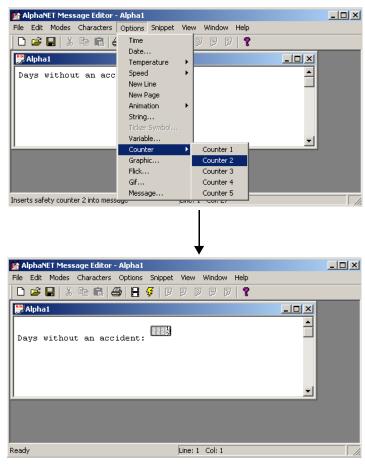
NOTE: The Manufacturing signs can still display other messages.



1. Open *Message Editor* and create a new message:

😭 AlphaNET Message Editor - Alpha1	_ 🗆 🗙
File Edit Modes Characters Options Snippet View Window Help	
Alpha1	
<u> </u>	
Ready Line: 1 Col: 1	NUM //

2. In the message window, type *Days without an accident:* and a space. Then add a counter to the message by selecting *Options>Counter>Counter 2*:

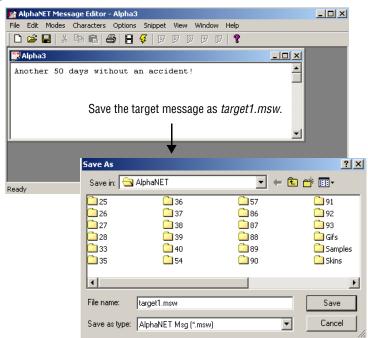


Save this counter message as countman.msw and close the message:

3.

Save As			? ×
Save in: 🔁	AlphaNET	- +	· 🗈 💣 🎟 •
25	2 36	57	91
26	<u>37</u>	<u>)</u> 86	92
27	<u></u> 38	<u></u> 87	93
28	<u></u> 39	<u>i</u> 88	🧰 Gifs
33	i 40	<u></u> 89	🚞 Samples
35	5 4	90 🛄	🗋 Skins
•			Þ
File name:	countmanilmsw		Save
Save as type:	AlphaNET Msg (*.msw)		Cancel

4. Next, create the target message — the message that will appear when counter 2 reaches 50 days. Then save this message as *target1.msw*:



- **5.** C
 - Close Message Editor. Open Site Manager and select Edit>Counter File:

	tebase32.dat - Alpha		1anager		
File	Edit Messages View Connection Device Counter File	Alt+D Alt+C	🕄 🖊 😽 🌹 Message Name	Start Day / Time	Stop Day / Time
		Alt+U Ctrl+[Ctrl+] F6 Alt+P	in alpha1.msw	Always Always Always	Joop Day / Time
	roduction		.		ALL MESSAGES

6. Next, either open an existing counter file or type a new file name (such as *target.ctw*) and click *Open*:

Open			? ×
Look in: 🔂	AlphaNET	-	🗈 💣 🎟 •
25	i 36	57	91
26	<u></u> 37	i 86	92
27	<u></u> 38	i 87	93
28	<u></u> 39	i 88	🦲 Gifs
33	<u></u> 40	<u>)</u> 89	🚞 Samples
35	i 54	i 90	🚞 Skins
•			Þ
File name:	target.ctw		Open
Files of type:	Counter Files (*.ctw)		Cancel

7. When the *Counter Setup* window appears, select the *Counter 2* tab and enter the values shown below:

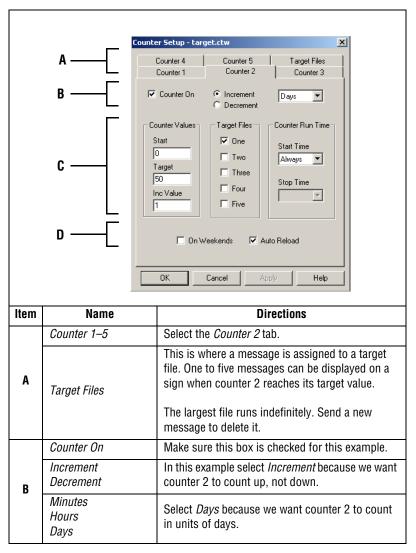


Table 24: Counter Example 2 — Counter 2 setup

	Counter	Start	Enter <i>0</i> because we want counter 2 to start at 0 days and then count up to 50.
	Values	Target	Enter <i>50</i> .
		Inc	Enter <i>1</i> because we want counter 2 to count up 1 day at a time — 1, 2, 3, and so on.
C	Target Files	One–Five	Check <i>One.</i> This means that one message will appear on the sign after counter 2 has reached its target value.
	Counter Run Time	Start Time Stop Time	In this example, <i>Always</i> is selected because we want counter 2 running continuously.
	On Weekends		Since we do not need our counter running on weekends, leave this unchecked.
D	Auto Reloa	ad	This box is checked because we want our counter to count continuously. If this box was not checked, counter 2 would count up to 50 just once.

Table 24: Counter Example 2 — Counter 2 setup

8. Next, select the *Target Files* tab and for *Target File* 1, select *Browse* and then the file you created (*target1.msw*):

ounter Setup - ta	arget.ctw	X
Counter 1 Counter 4	Counter 2 Counter 5	Counter 3
Target File 1	arget1.msw	Browse
Target File 2-		Browse
Target File 3-		Browse
Target File 4		Browse
Target File 5-		Browse
ОК	Cancel /	Apply Help

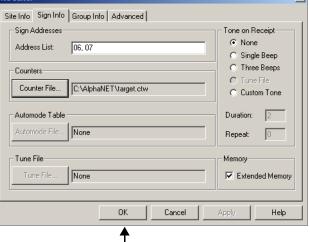
9. After selecting the target file, click *Open*, and then *OK* to close the *Counter Setup* window. Then double-click the Manufacturing site to access the *Site Editor* window:

File Edit Messages View Help	- Hanayer		
	B) 63 / 5 8		
Sites / Groups	Message Name	Start Day / Time	Stop Day /
Calengineering Calendry Calendry Calendry Calendry Calendry Sales Calendry	flood.msw	Always	
Administration Production	-		
Ready			ALL MESSAGES
Double-click <i>Manufactu</i>	ring.		
	ring.		
Double-click <i>Manufactu</i>	ring.	×	
Double-click <i>Manufactu</i> Sign Info Group Info Advanced	ring.	×	
Double-click <i>Manufactu</i> Sign Info Group Info Advanced ite Description	ring.	×	
Double-click <i>Manufactu</i> Sign Info Group Info Advanced			
Double-Click Manufactu Sign Info Group Info Advanced te Description te Name: Manufacturing	ring. T Full Color (RGB) C ✓ Use as an Editor to	apable	
Double-Click Manufactu Sign Info Group Info Advanced Ite Description te Name: Manufacturing	T Full Color (RGB) C	apable	
Double-click Manufactu Sign Info Group Info Advanced ite Description te Name: Manufacturing ompatibility: Alpha 1.0 (E295)	Full Color (RGB) C ✓ Use as an Editor to	apable	
Double-click Manufactu Sign Info Group Info Advanced le Description te Name: Manufacturing smpatibility: Alpha 1.0 (EZ95) etwork Configuration	Full Color (RGB) C ✓ Use as an Editor to	apable ansmit site	

If you want to delete a counter file from a sign, click *Counter File*, click *None*, and then click *OK*.

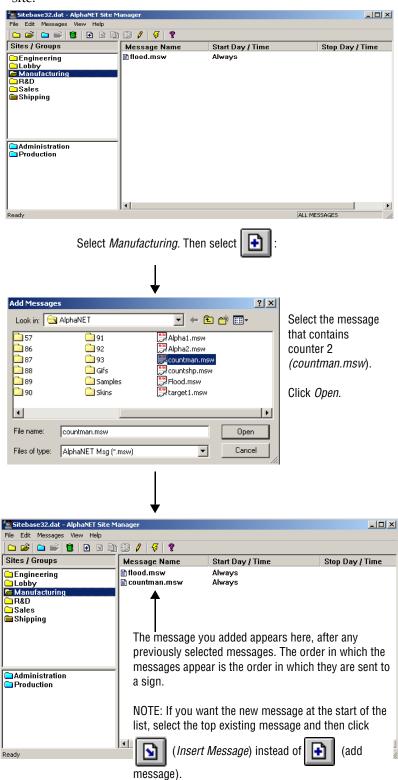
10.	Next,	select the	e Sign I	<i>nfo</i> tab	and	attach	the co	unter	file you	just
	created	to the M	lanufac	turing	site:				-	

Site Info Sign Info G	iroup Info Advanced	1		
- Sign Addresses		·	Tone or	n Receipt
Address List:	06, 07			one ngle Beep
Counters				ngie Beeps
1-	lone			une File
	TONE		° ۵	ustom Tone
Automode Table-			Duratio	n: 2
Automode File	lone			: 0
· · · · ·				
Tune File			Memory	
Tune File	lone		Ext	ended Memory
	OK	Cancel	Apply	Help
	ing <i>Counter Fil</i> this case, <i>targe</i>			
edited (in			en select <i>O</i>	
edited (in	this case, <i>targe</i>			
edited (in n name:	this case, <i>targe</i> Folders:		en select <i>O</i>	
edited (in n name: get.ctw	this case, targe	et.ctw.) The	en select <i>O</i>	
edited (in n ename: get.ctw	Folders: c:\alphanet		en select <i>O</i> , ?× OK Cancel	
edited (in name: get.ctw	Folders: c:\alphanet	et.ctw.) The	en select <i>O</i>	
edited (in name: get.ctw	Folders: c:\alphanet C:\alphan	et.ctw.) Th	en select <i>O</i> , ?× OK Cancel	
edited (in	Folders: c:\alphanet C:\alphan	et.ctw.) The	en select <i>O</i> , ?× OK Cancel	
edited (in	Folders: c:\alphanet AlphaNET 26 27 28 Drives:		en select O	
edited (in	Folders: c:\alphanet C:\alphan		en select <i>O</i> , ?× OK Cancel	
edited (in	Folders: c:\alphanet AlphaNET 26 27 28 Drives:		en select O	
edited (in	Folders: c:\alphanet AlphaNET 26 27 28 Drives:		en select O	
edited (in	Folders: c:\alphanet AlphaNET 26 27 28 Drives:		en select O	К.
edited (in	Folders: c:\alphanet C:\alphanet C:\alphanet C:\alphanet C: C: C: C: C: C: C: C: C: C: C: C: C:		en select O	

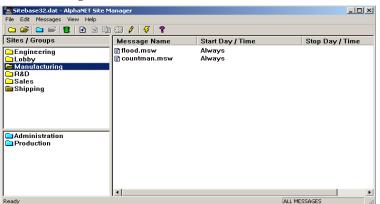


Select OK.

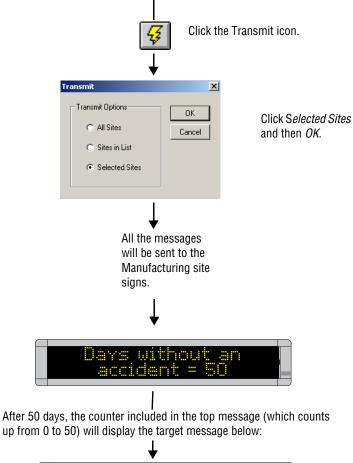
11. Add the message that contains counter 2 to the Manufacturing site:



12. Finally, in order to display the message you just added, it must be transmitted to the Manufacturing signs. To do this, select the Manufacturing site and then the Transmit icon:



Select *Manufacturing* because this is the only site to which we want messages sent.





If you are prompted to reset a sign counter, select *Yes* to reset the counter to its start value.

Otherwise, select *No* to leave the sign's current value intact.

Example 3 — Using a counter to display just a target message

This example is nearly identical to Example 2.

In Example 2, the counter was displayed as well as a target message.

In Example 3, only the target message will be displayed. The counter will just count.

In this example, we will use one of the five counters (in this case, counter 3) to display the message *Another 100 hours of safe operation!* When counter 3 reaches 100 hours, the message will appear on all the signs in the Engineering site. (This site was created in the previous section "How to change a sign's serial address" on page 7.)

NOTE: The Engineering signs can still display other messages.



1. Open *Message Editor* and create a new message:



2. Next, create the target message — the message that will appear when counter 3 reaches 100 hours. Then save this message as *target2.msw*:

😭 AlphaNET Message E	ditor - Alpha1	
File Edit Modes Chara	cters Options Snippet View Windo	ow Help
🗋 D 🖻 🖬 X 🖻 I	2 😂 🗄 🞸 Ø Ø Ø Ø	₽ ?
🚆 Alpha1		
Another 100 hour	rs of safe operation!	<u> </u>
	Save As	?
	Save in: 🔄 AlphaNET	- 🖬 🍅 🖬 -
	25 🛄 36	5 7 1 91
	26 37	86 92
	27 38	87 93
Ready		🔲 88 🧰 Gifs
	33 <u>40</u> 35 <u>54</u>	89 Samples Sins
	•	
ve the target	File name: target2.msw	Save
get2.msw.	Save as type: AlphaNET Msg (*.msw	/) Cancel

3. After saving the target message, close *Message Editor*. Open *Site Manager* and select *Edit>Counter File*:

🔁 Sit	Sitebase32.dat - AlphaNET Site Manager					
File	Edit Messages View	Help				
	Connection Device Counter File	Alt+D Alt+C	83 🖊 5 ?			
Site	Automode File	Alt+U	Message Name	Start Day / Time	Sto	
	Select All	Ctrl+[🖹 alpha1.msw 🖹 flood.msw	Always Always		
	Deselect All Switch Pane	Ctrl+] F6		,		
	Preferences	Alt+P				
25	Set Password	AILTE				

4. Next, either open an existing counter file (like the default file shown below) or type a new file name (like *engineer.ctw*):

Open			<u>? ×</u>
Look in: 🔁	AlphaNET	• + [È 💣 🎟 -
25	2 36	57	91
26	<u></u> 37	<u></u> 86	92
27	<u></u> 38	<u></u> 87	93
28	<u></u> 39	<u>)</u> 88	🧰 Gifs
33	<u></u> 40	<u>)</u> 89	🚞 Samples
35	<u></u> 54	<u>)</u> 90	🚞 Skins
			F
File name:	engineer.ctw		Open
Files of type:	Counter Files (*.ctw)	•	Cancel

5. When the *Counter Setup* window appears, select the *Counter 3* tab and enter the values shown below:

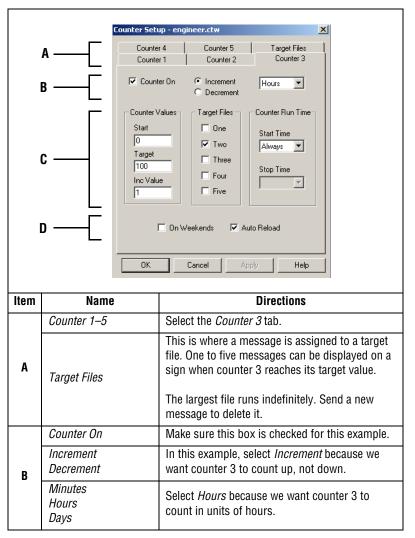


Table 25: Counter Example 3 — Counter 3 setup

	Start		Enter <i>0</i> because we want counter 3 to start at 0 hours and then count up to 100.
	Counter Values	Target	Enter 100.
	Valuoo	Inc	Enter <i>1</i> because we want counter 3 to count up 1 hour at a time—1, 2, 3, and so on.
C	Target Files	One–Five	Check <i>Two</i> . This means that one message will appear on the sign after counter 3 has reached its target value.
	Counter Run Time	Start Time Stop Time	In this example, <i>Always</i> is selected because we want counter 3 running continuously.
	On Weekends		Since we do not need our counter running on weekends, leave this unchecked.
D	Auto Reloa	d	This box is checked because we want our counter to count down continuously. If this box was not checked, counter 3 would count up to 100 just once.

Table 25: Counter Example 3 — Counter 3 setup

6. Next, select *Target Files*. For *Target File 1*, select *Browse* and then select the file you created called *target2.msw*:

5		2
Counter Setup - eng	ineer.ctw	×
Counter 1 Counter 4	Counter 2 Counter 5	Counter 3
Target File 1 C:\AlphaNET\target2.msw Browse		
Target File 2		Browse

7. After selecting the target file, click *OK*. Then double-click the *Engineering* site to access the *Site Editor* window:

	🔁 Sitebase32.dat - AlphaNET Site Manager					
		File Edit Messages	View Help			
] 🗅 📽 🗅 📽	💼 🗈 🖻 🗎	🕄 🖉 😽	?	
Double-c	lick	Sites / Groups		Message N	ame	Star
Engineeri		Engineering Lobby Manufacturing R&D Sales Shipping	J	🖹 alpha1.ms 🖹 flood.msw		Alwa Alwa
Site Editor	r	i i i		•	×	
Site Info	Sign Info Group	Info Advanced				
- ۲ ۲	Site Description —					
s	ite Name: E	ngineering				
c	Compatibility:	lpha 1.0 (EZ95) 💌	Full Color (RGB			
1	Network Configurati	on				
C	Connection Device:	Local Wired Com 2		•		
F	Phone Number:		Cap Code:			
F	Enable error che	cking				

8. Next, select *Sign Info* and attach the counter file you just created to the Engineering site:

Site Editor	×
Site Info Sign Info Group Info Advanced	
Sign Addresses	Tone on Receipt
Address List: 03-05	None
	C Single Beep C Three Beeps
Counters	C Tune File
Counter File None	C Custom Tone
Automode Table	Duration: 2
Automode File,	Repeat: 0
Tune File	Memory
Tune File None	Extended Memory
OK Cancel	Apply Help

If you want to delete a counter file from a sign, click *Counter File*, click *None*, and then click *OK*.

After clicking *Counter File*, select the counter file you just edited (in this case, *engineer.ctw*). Then select *OK*.

Open		? ×
File name:	Folders:	OK
engineer.ctw	c:\alphanet	Cancel
engineer.ctw	🗁 c:\	
target.ctw	AlphaNET	None
	26	
	27 28	-1
▼.		
List files of type:	Drives:	-
Counter files (*.ctw)		Network
nfo Sign Info Group Info Ad	vanced	Tone on Receipt
itor nfo Sign Info Group Info Ad ign Addresses ddress List: 03-05	Vanced	 None Single Beep Three Beeps
nfo Sign Info Group Info Ad ign Addresses ddress List: 03-05		 None C Single Beep
nfo Sign Info Group Info Ad ign Addresses ddress List: 03-05 ounters Counter File C:\AlphaNET\e		 None Single Beep Three Beeps Tune File
nfo Sign Info Group Info Ad ign Addresses ddress List: 03-05 ounters Counter File C:\AlphaNET\s utomode Table		 None Single Beep Three Beeps Turne File Custom Tone
nfo Sign Info Group Info Ad ign Addresses ddress List: 03-05 counters Counter File C:\AlphaNET\e utomode Table utomode File None		© None © Single Beep © Three Beeps © Tune File © Custom Tone Duration: 2
nfo Sign Info Group Info Ad ign Addresses ddress List: 03-05 ounters Counter File C:\AlphaNET\se utomode Table		None Single Beep Three Beeps Ture File Custom Tone Duration: 2 Repeat: 0

How to use real-time data in a message

String Variables + ActiveX® = real-time data

Data from external sources (for example, Microsoft® Excel, Access, and Visual Basic® software) can be displayed on Alpha® signs by using two features included in AlphaNET[™] 3.0 software:

- String variables
- Alpha® String Update Control (an ActiveX® component)

A variable in the AlphaNETTM 3.0 software represents real-time data that can change (for example, temperature or production rates, date, or time). Variables can be put into messages.

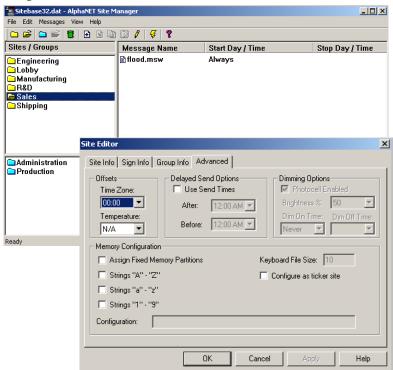
The value of a variable can be changed using the Alpha® String Update Control. Because this is an ActiveX® control, it can be used with a variety of ActiveX®-compatible applications, such as Microsoft® Excel, Access, and Visual Basic® software.

NOTE: Besides using the Alpha® String Update Control, you can also write your own application to update variables. For more information, see the **Alpha® Sign Communications Protocol** manual.

Real-time data example

Create sign memory configurations using Site Manager

1. In *Site Manager*, double-click the site for the sign which will use string variables. Then click the *Advanced* tab.



The AlphaNET[™] 3.0 software CD ROM contains examples on using the Alpha® String Update Control.

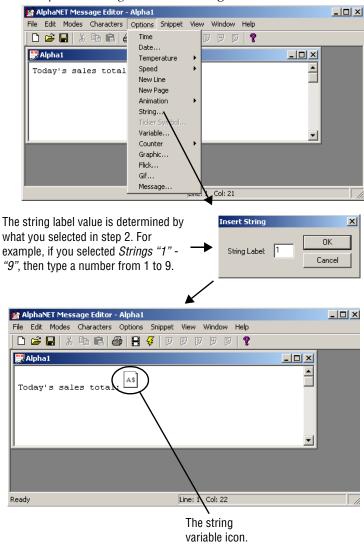
- **2.** Create a sign memory configuration by checking either:
 - Assign Fixed Memory Partitions Check this to assign your own sign memory configuration in the *Configuration* box. (For detailed information, see the Memory Configuration examples in "Appendix G: Protocol Examples" of the **Alpha® Sign Communications Protocol** manual.)
 - Strings "A" "Z", Strings "a" "z", Strings "1" "9" Check one, two, or all three of these to create a sign memory configuration in the *Configuration* box. For example, checking *Strings "A" "Z"* would set up 26 string files names "A" through "Z". These files could then be used by the Alpha® String Update Control. (Checking *Strings "a" "z"* would set up an additional 26 strings, and checking *Strings "1" "9"* would add another 9 strings.)

	Site Editor			
	Site Info Sign Info Group Info Advanced			
	Offsets Time Zone: 00:00 ▼ Delayed Send Options Use Send Times After 12:00 AMI▼ Dimming Options Photocell Enabled Brightness % 50 ▼			
Check Assign Fixed Memory Partitions	Image: State			
or	Memory Configuration Assign Fixed Memory Partitions Keyboard File Size: 10			
Check one, two, or all of these	✓ Strings "A" · "2" Configure as ticker site ✓ Strings "a" · "2"			
	Strings "1" - "9" Configuration: ABL00500000BBL00500000CBL00500000DBL00500000EBL005			
	OK Cancel Apply Help			

Create a message with a string variable using Message Editor

- 4. Type Today's sales total:
- **3.** In *Message Editor*, create a new message by selecting *File>New*:

5. Select *Options>String* to insert a string variable into the message:



Update the string variable using the ActiveX® control

6. Use the Alpha® String Update Control (the ActiveX® component of AlphaNET[™] 3.0 software) to update the message's string variable.

Following is a description of the available methods and properties of this ActiveX[®] control:

InitializeSyntax:AlphaStringUpdateCtrl.InitializeParameters:noneRemarks:Method must be called prior to calling any other method of this control. This method opens a COM port or creates a socket connection to the display.UpdateStringSyntax:AlphaStringUpdateCtrl.UpdateString("String Label", Value, Color, Flash)Parameters:* String Label — String. One character only. (In the previous example, the String Label is 1.)Parameters:* String Label — String. One character only. (In the previous example, the String Label is 1.)Value- String Label — String. One character only. (In the previous example, the String Label is 1.)• Flash — Byte. 0 = off, 1 = on.This method will pass any value to the designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.NetworkAddressType:Byte Values:NetworkAddressType:StringValues:3001 (default)SerialBaudRateType:IntegerValues:10, 300, 600, 1200, 4800, 9600, 14400, 19200, 28600, 38400, 56000, 115200, 128000, 256000SerialDataBitsType:StringValues:1 through 16SerialParity:Type:StringValues:1 through 8SerialStopBitsType:StringValues:1 or 2Serial AddressType:Integer (use 2 digits)Values:1 or 2Serial AddressType:Serial Address1 or 2	METHODS				
InitializeMethod must be called prior to calling any other method of this control. This method opens a COM port or creates a socket connection to the display. <td></td> <td>Syntax:</td> <td>AlphaStringUpdateCtrl.Initialize</td>		Syntax:	AlphaStringUpdateCtrl.Initialize		
Remarks:other method of this control. This method opens a COM port or creates a socket connection to the display.Syntax:AlphaStringUpdateCtrl.UpdateString("String Label", Value, Color, Flash)UpdateStringParameters:• String Label — String. One character only. 	Initialize	Parameters:	none		
Sylitax:Label", Value, Color, Flash)UpdateStringParameters:• String Label — String. One character only. (In the previous example, the String Label is 1.)Parameters:• Value — String. This is the value to be passed and displayed. • Color — Integer. 1 = Red, 2 = Green, 3 = Amber. • Flash — Byte. 0 = off, 1 = on.This method will pass any value to the designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.ConnectModeType:ByteNetworkAddressType:StringNetworkPortType:StringValues:0 = Serial connection, 1 = TCP/IP connection.)NetworkPortType:IntegerSerialBaudRateType:IntegerSerialComPortType:IntegerValues:1 10, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialDataBitsType:ByteValues:1 through 16SerialParity:Type:StringValues:1 through 8SerialStopBitsType:StringValues:None, Even, Odd, Mark, SpaceSerial AddressType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)Tor 2		Remarks:	other method of this control. This method opens a COM port or creates a socket		
UpdateStringParameters:(In the previous example, the String Label'is 1.)Parameters:Value — String. This is the value to be passed and displayed.Color — Integer. 1 = Red, 2 = Green, 3 = Amber. • Flash — Byte. 0 = off, 1 = on.Remarks:This method will pass any value to the designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.ConnectModeType:ByteValues:0 = Serial connection, 1 = TCP/IP connectionNetworkAddressTCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:IntegerSerialComPortType:ByteValues:1 through 16SerialParity:Type:StringValues:1 through 16SerialParity:Type:StringSerialStopBitsType:StringSerial AddressType:StringSerial AddressType:IntegerSerialAddressType:ByteSerialAddressType:ByteValues:1 through 8SerialParity:Type:StringValues:None, Even, Odd, Mark, SpaceSerial AddressType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)		Syntax:			
Remarks:designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.PROPERTIESConnectModeType:ByteValues:0 = Serial connection, 1 = TCP/IP connectionNetworkAddressType:StringNetworkPortType:IntegerValues:3001 (default)NetworkPortType:IntegerSerialBaudRateType:IntegerSerialComPortType:ByteValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialDataBitsType:ByteSerialParity:Type:ByteSerialParity:Type:StringSerialStopBitsType:StringSerial AddressType:StringSerial AddressType:StringSerial AddressType:StringSerial AddressType:Serial AddressType:Serial AddressType:Serial AddressType:Serial AddressType:Serial Address	UpdateString	Parameters:	 (In the previous example, the <i>String Label</i> is 1.) <i>Value</i> — String. This is the value to be passed and displayed. <i>Color</i> — Integer. 1 = Red, 2 = Green, 3 = Amber. 		
ConnectModeType:ByteValues:0 = Serial connection, 1 = TCP/IP connectionNetworkAddressType:StringNetworkPortTCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:IntegerSerialComPortType:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:StringValues:4 through 8SerialStopBitsType:StringSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Type:I or 2Serial AddressType:Type:I or 2Serial AddressType:Serial AddressTy		Remarks:	designated string. The <i>Color</i> parameter will override any color definition set by the message itself. The <i>Flash</i> parameter will only		
ConnectModeType:ByteValues:0 = Serial connection, 1 = TCP/IP connectionNetworkAddressType:StringNetworkPortTCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:IntegerSerialComPortType:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:StringValues:4 through 8SerialStopBitsType:StringSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Type:I or 2Serial AddressType:Type:I or 2Serial AddressType:Serial AddressTy					
ConnectModeValues:0Serial connection, 1 = TCP/IP connectionValues:Type:StringNetworkAddressValues:TCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:IntegerSerialBaudRateValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:StringValues:4 through 8SerialParity:Values:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)		Type:			
NetworkAddressType:StringNetworkAddressTCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:IntegerSerialBaudRateValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:ByteSerialParity:Type:StringSerialStopBitsType:StringSerialAddressType:I or 2SerialAddressType:I or 2SerialAddressType:	ConnectMode		•		
NetworkAddressTCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)NetworkPortType:IntegerSerialBaudRateType:IntegerSerialBaudRateValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Values:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)					
NetworkPortValues:3001 (default)Values:Type:IntegerSerialBaudRateYalues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Type:StringSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Serial AddressType:	NetworkAddress		TCP/IP address of the network adapter. (Only		
Values:3001 (default)SerialBaudRateType:IntegerValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Values:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)	NatworkDort	applicable to a TCP/IP connection.)			
SerialBaudRateInterfaceInterfaceInterfaceSerialBaudRateValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Type:StringValues:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)	NelworkPort	Values:	3001 (default)		
Values:19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Values:StringValues:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)		Туре:	Integer		
SerialComPortValues:1 through 16Values:1 through 16SerialDataBitsType:Values:4 through 8SerialParity:Type:Values:None, Even, Odd, Mark, SpaceSerialStopBitsType:Values:1 or 2Serial AddressType:Integer (use 2 digits)	SerialBaudRate	Values:	19200, 28800, 38400, 56000, 115200,		
Values:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Type:StringValues:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)	SarialComPort	Туре:	Byte		
SerialDataBits Values: 4 through 8 Values: 4 through 8 SerialParity: Type: String Values: None, Even, Odd, Mark, Space SerialStopBits Type: Byte Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	JEHAIUUIIIFUIL	Values:	1 through 16		
Values:4 through 8SerialParity:Type:StringValues:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)	SarialDataRite	Туре:	Byte		
SerialParity: Values: None, Even, Odd, Mark, Space SerialStopBits Type: Byte Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	SerialDataBits	Values:	4 through 8		
Values: None, Even, Odd, Mark, Space SerialStopBits Type: Byte Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	SorialParity	Туре:	String		
Serial StopBits Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	ochair allty.	Values:	None, Even, Odd, Mark, Space		
Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	SarialStonBite	Туре:	Byte		
Serial Address	σεπαισισμοπισ	Values:	1 or 2		
Values: 00 (default)	Sprial Addross	Туре:	Integer (use 2 digits)		
	Serial Address	Values:	00 (default)		

Table 26: Alpha ${f B}$ String Update Control Methods & Properties

How to create and use a custom automode sequence

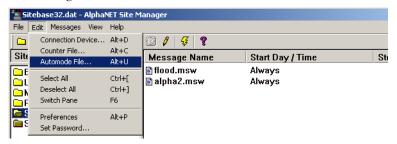
The message mode called *Automode* is the default mode used if no other mode is selected in a message. It displays the message with all the other modes provided with AlphaNETTM 3.0 software. (For descriptions of the modes, see "Appendix B — Modes available on signs" on page 129.)

A custom automode sequence can be created for each sign site.

You can set what modes automode will use by doing the following:

Creating or editing an Automode sequence

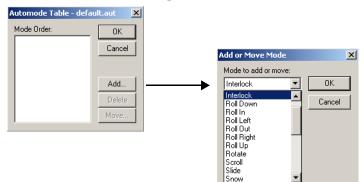
1. In Site Manager, choose Edit>Automode File:



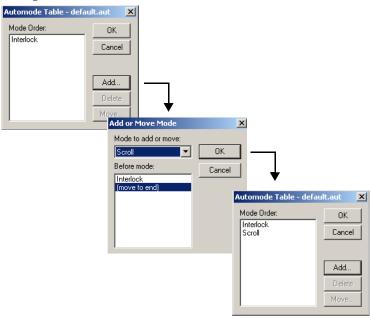
2. Accept the name of *default.aut* for the file, choose an existing file if there is one, or type in a different name for a new file to use. Then click *Open*.

)pen			?
Look in: 🔁	AlphaNET	• +	🗈 💣 🎟 -
25	2 36	57	91
<u>26</u>	<u></u> 37	<u>)</u> 86	<u>9</u> 2
27	i 38	87	<u> </u>
28	<u></u> 39	🚞 88	🧰 Gifs
i 33	i 40	69	🚞 Samples
<u>)</u> 35	i 54	<u> </u>	🚞 Skins
•			
File name:	default.aut		Open
Files of type:	Automode Files (*.aut)		▼ Cancel

3. Click *Add*. Then select the *Interlock* > *OK* to add the Interlock mode to our custom automode sequence:



4. To add another mode to our custom automode sequence, click *Add* again. Then select another mode and click *OK*.



NOTE: The order of the modes can be changed using *Move*. Modes can also be added or deleted using *Add* and *Delete*.

Using a custom Automode sequence

1. Using *Site Editor*, double-click the site that is to have the custom automode. Select the *Site Info* tab and choose *Alpha 2.0* for *Compatibility*.

Site Editor	X
Site Info Sign Info Group Info Advanced	
Site Description	
Site Name: Engineering	
Compatibility: Alpha 2.0 Full Color (RGB) Capable Use as an Editor transmit site	
Network Configuration	
Connection Device: Local Wired Com 2	
Phone Number: Cap Code:	
Enable error checking	
OK Cancel Apply Help	

2. Select the *Sign Info* tab. Then click *Automode File* and select a custom automode file:

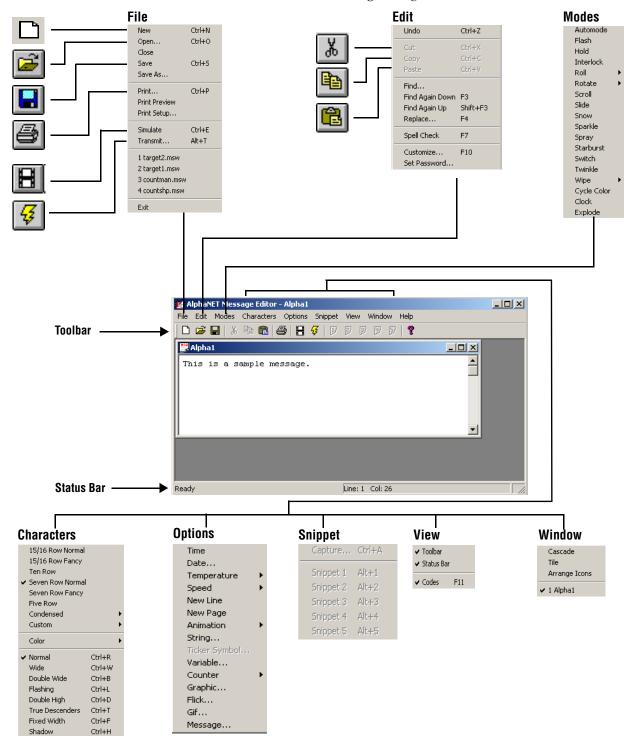
	Site Editor	X
	Site Info Sign Info Group Info Advanced	
	☐ Sign Addresses	Tone on Receipt
	Address List: 03-05	None
	Aduless List. 03-03	C Single Beep
	Counters	C Three Beeps
		C Tune File
To revert back to the	Counter File None	C Custom Tone
default automode setting,	A Annual Table	Duration D
click Automode File, click	- Automode Table	Duration: 2
<i>None</i> , and then click <i>OK</i> .	Automode File	Repeat: 0
None, and then click OA.		JLJ
	Tune File	Memory
	Tune File None	Extended Memory
	OK	Cancel Apply Help
	•	8.1
	Open	? ×
	File name: Folders: O	K Messages sent to this
	Kaut c:\alphanet	site will now use this
	default.aut 📐 🗁 c:\ 🔺 💻	custom automode.
	ALPHANET	
	□ 25 No □ 26	ne
	💼 27	
	28	
	List files of type: Drives:	
	Automode files (*.aut)	vork
	★	
	Site Editor	×
	Site Info Sign Info Group Info Advanced	
		fone on Receipt
		None
	Address List: 03:05	C Single Beep
	Counters	C Three Beeps
		C Tune File
	Counter File C:\AlphaNET\engineer.ctw	C Custom Tone
	Automode Table	Duration: 2
	Automode File None	Repeat: 0
	Tune File	demory
	Tune File None	Extended Memory
	OK Cancel Ap	pply Help
	▲	
	Select <i>OK</i> .	
	Select UK.	

How to create and use a custom automode sequence





Message Editor is used to create messages for signs. Text, graphics, and animations (or flicks) can be used in messages. See Chapter 3 for detailed instructions on using *Message Editor*.



	Menu Item	Description
	New	Opens a new message window.
	Open	Opens an existing message file.
	Close	Closes the message window.
	Save	Saves a message.
	Save As	Saves the current message under a different name.
	Print	Prints a message.
	Print Preview	Previews a message (in print form).
	Print Setup	Change printers, page size, and so on.
	Simulate	Previews a message (in display form).
File	Transmit	Sends a message to either every site or some sites: This sends a message to every site.
	1 File name 1 2 File name 2 3 File name 3 4 File name 4	A list of recent message file names which can be selected and opened.
	Exit	Quits Message Editor.

	Undo	If highlighted, reverses the last action performed.
	Cut	Deletes selected text or graphics from a message and places it on the clipboard.
	Сору	Copies selected text or graphics from a message and places it on the clipboard.
Edit	Paste	Places text or graphics on the clipboard at the current cursor position in a message.
Edit	Find	
	Find Again Down	Locates a word or phrase in a message.
	Find Again Up	
	Replace	Replaces text in a message with text of your choice.
	Spell Check	Verifies the text in a message is spelled correctly.

Me	enu Item	Description
Edit (continued)	Customize	Sets the availability of <i>Message Editor</i> drop-down menu options, whether text or pictures will appear for modes, characters, and options, and the number of space to insert for a tab setting. The type of sign selected here dictates the options available in the drop-down menus. Customize Customize C
	Set Password	Allows you to password-protect <i>Message Editor</i> . Set Password Old Password: New Password: Verify: Verify: Verify: Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel

	Automode	The default mode. If no other mode is selected, a message will appear in automode. Automode cycles through a list of all other modes. The list of modes and their sequence in the automode cycle can be customized as needed.
	Flash	Flashes message.
Modes	Hold	Holds message for several seconds.
(For more information, see	Interlock	Alternating rows of dots enter from each end of a sign and interlock a message into the center of the sign.
"Using modes to	Roll	Rolls the previous message off the sign while rolling the new message on.
change the look of	Rotate	Rotates a message from the right to the left horizontally across a sign.
a message" on page 43.)	Scroll	Moves a message up one line at a time. The previous message is pushed up.
page to.)	Slide	A message moves onto the sign from right to left, one character at a time.
NOTE: Some	Snow	The new message snows over and erases the current message.
modes may not be available on a sign.	Sparkle	The new message sparkles onto the sign over the current message.
See "Appendix B —	Spray	A message sprays across the sign from right to left, one character at a time.
Modes available on	Starburst	Random starbursts explode a message onto a sign.
signs" on page 129.	Switch	Alternating characters of a message slide off a sign in different directions (first character slides up, the next down, and so on). New characters appear in the same manner.
	Twinkle	A message appears with a twinkling effect.
	Wipe	The new message is wiped over the current message.

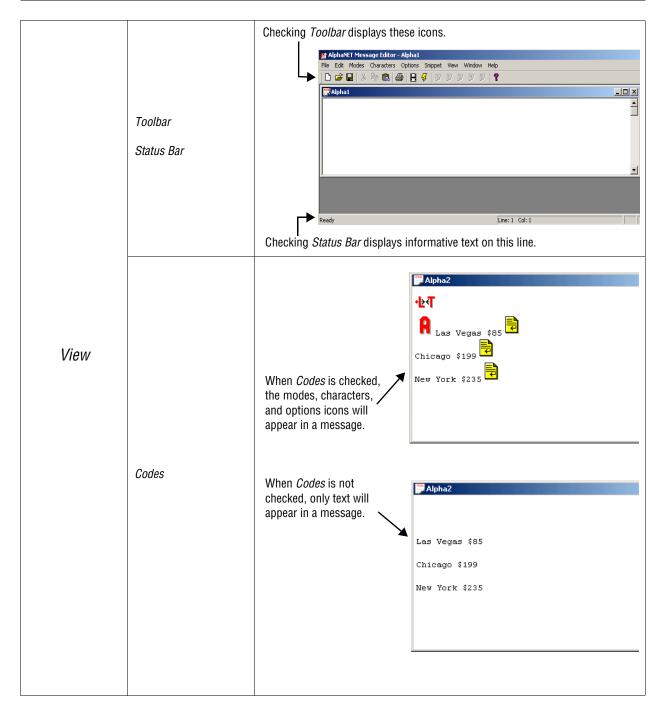
Me	nu Item	Description
	Cycle Color	Cascades colors through the message from the bottom up.
	Clock	Wipes information on and off the sign as if a second hand were sweeping around it.
	Explode	Rolls information from the center of the sign and out in all four directions at once.

Characters	15/16 Row Normal 15/16 Row Fancy Ten Row Seven Row Normal Seven Row Fancy Five Row	The height of text in rows. For example, <i>Seven Row Normal</i> (or <i>Fancy</i>) text is 7 rows tall on a sign. See "Text comes in four basic sizes" on page 139.
(For more information, see	Condensed	Allows selection of <i>15/16 Row, Ten Row, Seven Row,</i> or <i>Five Row</i> in a condensed format.
"Using characters to change the look of a message" on page 46.)	Custom	Allows selection of <i>15/16 Row</i> , T <i>en Row</i> , <i>Seven Row</i> , or <i>Five Row</i> in a customized format. Custom fonts must be installed in the sign's memory outside of AlphaNET [™] 3.0 software.
NOTE: Some characters may not	Color	Allows selection of multiple colors if you have a multicolor sign. If no color is selected, then autocolor is set. In this case, the available colors are randomly displayed.
be available on a	Normal	The default setting for characters.
sign. See "Appendix C —	Wide	Text is displayed in bold characters.
Character fonts and	Double Wide	Text is displayed in very bold characters.
colors available on signs" on	Flashing	Allows individual or many characters to flash on and off.
page 131.	Double High	Doubles the selected character height
	True Descenders	When checked, the lower (or descender) part of letters such as j, g, and q are displayed on a sign.
	Fixed Width	When checked, each character takes up a fixed width like typewriter text. Otherwise, text is displayed proportionally with varying widths.
	Shadow	Allows selection of the shadow color for the message characters.

Me	nu Item	Description	
		Inserts the time into a message.	
	Time	NOTE: The time is based on the time stored in your computer. If your computer's clock is incorrect, then the time displayed on a sign will also be incorrect.	
		Inserts the date into a message. A number of formats are available:	
		Insert Date	
<i>Options</i> Some options may not be available on a sign. See "Appendix D — Display Options	Date	Date Format DK © MM/DD/YY DD.MM.YY DD/MM/YY MM DD YY DD/MM/YY DD MM YY DD-MM/YY Day of Week	
	Temperature	Inserts the current temperature in either Fahrenheit or Celsius into a message. NOTE: This option is only available on the 790i, Solar™, and AlphaEclipse™ outdoor signs.	
available on signs" on page 132.	Speed	 The Speed menu item displays 5 speeds and a No Hold option. Each speed determines how fast messages are displayed on a sign and then replaced by the next message. Speed 1 is the slowest and Speed 5 is the fastest. Use No Hold if you want your messages displayed as quickly as possible. 	
	New Line	Forces a line break. Use <i>New Line</i> in place of a carriage return when you want text to appear on a new line.	
	New Page	Acts as a page break.	
	Animation	Preset animations that can be displayed on most signs. For example, selecting <i>Cherry Bomb</i> displays a firecracker with a burning fuse. When the fuse burns down, the bomb explodes.	
	String	Inserts a text string in a message. See "How to use real-time data in a message" on page 95.	
	Ticker Symbol	Inserts stock market symbols into a message. Future use.	

Menu Item Description A variable does not stand for anything specific until a message is transmitted. For example, if you run a food shop which features a daily special, then a variable is an easy way to change your special: First, a variable called *Today's special* is placed at the start of a message: Insert ¥ariable × Variable Name: пк Today's special • Cancel Next, a second variable called *Special price* is placed at the end of the message: Insert Variable X Variable Name: ΟK Cancel Special price • The message looks like this: Variable SPECIAL.MSW - 🗆 🗵 **Options** $^{?}$ -?(continued) is on sale for NOTE: Some options may not be Finally, each time the message is transmitted, you will be prompted to enter text available on a sign. for both variables: See "Appendix D ----Fill-In ¥ariable - Lobby × Display Options available on signs" Replace Today's special with: Chili on page 132. Context - transmit.\$\$\$: Today's special is on sale for Where to Replace This message only This message and any remaining messages in this site C This and any other message in this and all remaing sites Abort 0K Inserts a minute, hour, or day counter in a message. For more information, see Counter "How to edit a counter file" on page 73. Inserts bitmapped (BMP format) images into a message. For more information, Graphic... see "Creating a graphic" on page 58. Inserts images into a message in GIF format. For more information, see Gif... "Creating a GIF" on page 69. Displays a number of bitmapped image files on a sign which gives the illusion of Flick... movement. For more information, see "Creating a flick" on page 63. Message... Inserts an entire message into the current message you are editing.

N	lenu Item	Description
	Capture	
	Snippet 1 After highlighting some text in a message, select Captul Snippet 2 of 5 snippets. This is a handy way to avoid retyping cor	After highlighting come text in a massage select <i>Capture</i> to store the text in one
Snippet		of 5 snippets. This is a handy way to avoid retyping commonly-used text. When
Shipper	Snippet 3	you need to use that text, simply place the cursor in the message where you
	Snippet 4	want it to appear and then click the snippet that holds that text to paste it.
	Snippet 5	



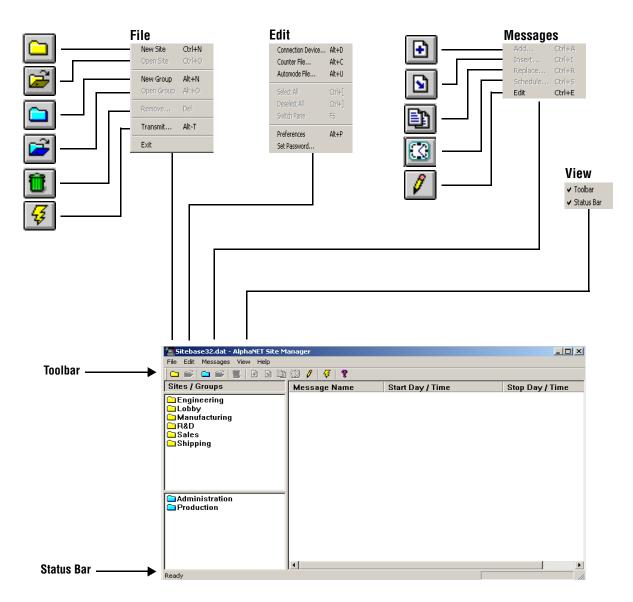
M	enu Item	Description
	Cascade	These are standard Windows @ offware matheds of swarsing windows and
	Tile	These are standard Windows® software methods of arranging windows and icons on the screen.
Window	Arrange Icons	
	1 Alpha 1	These are the names of the message windows you have opened. Select a window to make it the current window.



Site Manager is used to set up devices, sites, and groups. Devices are methods of communicating with signs. For example, a modem is a device because it talks to a sign through signals sent over a telephone line.

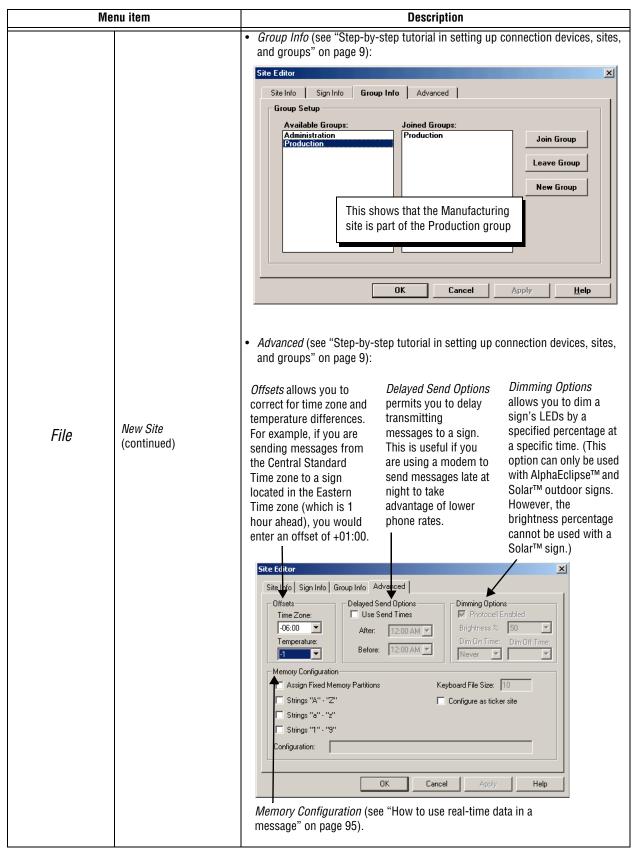
Sites and groups are terms used to describe how messages are sent to signs. You create sites and groups to make sending messages to multiple signs flexible and easy.

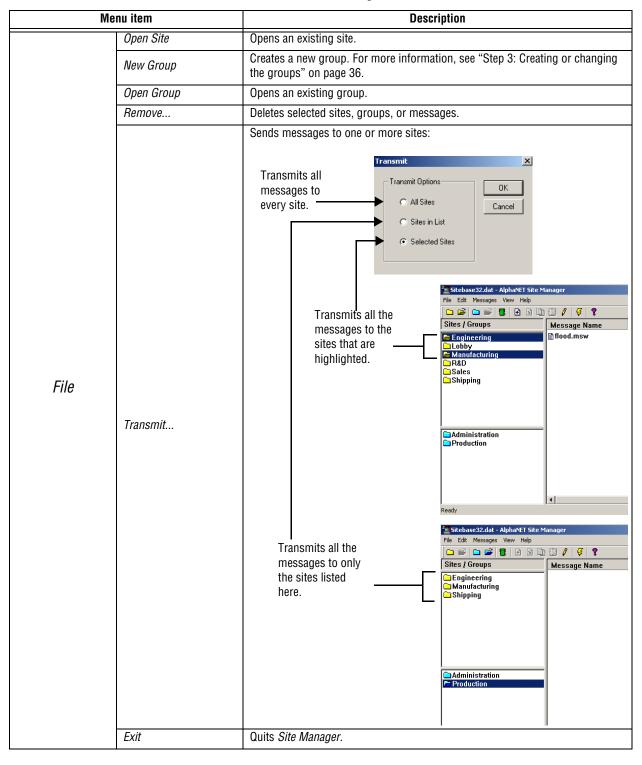
For more information, see "Step-by-step tutorial in setting up connection devices, sites, and groups" on page 9.



Με	enu item	Description
		 Creates a new site using four tabs of setup information: Site Info (see "Step-by-step tutorial in setting up connection devices, sites, and groups" on page 9):
File	New Site	and groups" on page 9): Site Editor Site Description Site Description Site Name: Engineering Use as an Editor transmit ale Compatibility: Alpha 1.0 (E235) Use as an Editor transmit ale Compatibility: Alpha 1.0 (E235) Use as an Editor transmit ale Connection Device: Cool Wred Con 2 Network Configuration OK Cancel Acoly Help Site Identify Sign Info (see "Step-by-step tutorial in setting up connection devices, sites, and groups" on page 9): Site Editor Sign Info (see "Step-by-step tutorial in setting up connection devices, sites, and groups" on page 9): Site Info Sign Info (see "Step-by-step tutorial in setting up connection devices, sites, and groups" on page 9): Site Info Sign Info Group Info Advanced Vertices Info (Step Info Advanced None Vertices Info (Step Info Advanced Vertices Info (Step

Table 29: Site Manager





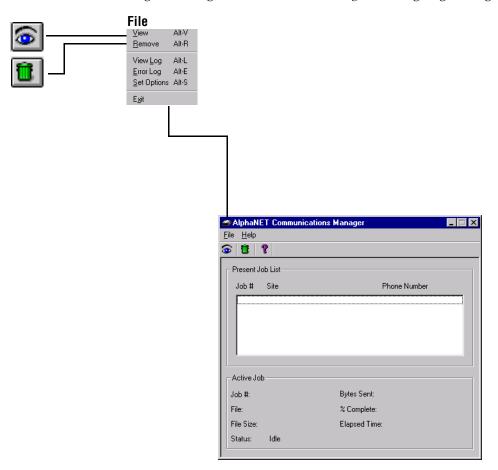
Ways to connect a sign to a PC that is running Algare four types of connection devices: direct cable wireless, and Local Area Network (LAN). For more information, see "Step 1: Creating or ch devices" on page 11.	(local), modem (remote),
Counter File Sets up from 1 to 5 numerical counters which car trigger the display of other messages. Counter File Counter File The counter in this message co 50 days then restarts from 0. For more information, see "How to edit a counter	contempto
Edit One or more files can be created so that a message customized list of selected modes.	K i tete
Select All If you have a message selected from the message list are selected. The same applies to sites and group	
Deselect All The opposite of Select All.	
There are three panes in the Site Manager window Pane moves from the current pane to another pane Sitebase32.dat - AlphaNET Site Man File Edit Messages View Help Engineering Lobby Manufacturing Sales Shipping Site pane Group pane	ne. Message pane
Preferences Allows you to save run times for recently added m	nessages.
Set Password Allows you to password-protect Site Manager.	

М	enu item	Description							
Messages	Add Insert Replace Schedule	Adds a message to the end of the current message list. Inserts a message above the message that is currently selected. Replaces the message currently selected with another message of your choice. Sets the times when a message appears on a sign: In this example, the message will display every Monday from 10:50 a.m. to 12:00 p.m. Stat: Note: Sites that have Compatibility on the Site Info tab set to Alpha 2.0 can schedule messages using dates. Select Date for the start day to activate a calendar.							
	Edit	Opens the selected message in <i>Message Editor</i> .							

View	Toolbar	Checking <i>Toolbar</i> displays these icons.	Sitebase32dat - AlphaNET Site Manager File Edit Messages View Help Sites / Groups Engineering Lobby Manufacturing Shipping
	Status Bar	Checking <i>Status Bar</i> displays informative text on this line.	Administration Production



Communications Manager keeps track of messages you send to signs and reports on transmission errors. When a message is transmitted, it goes through *Communications Manager* before going to a sign.



Me	nu item	Description
		Allows you to see the status of messages being transmitted to a site:
	View	Job # 19 ✓ Site Name: RD Phone Number: OK COM Port: COM2 Baud Rate: 9600 Data Bits: 7 Parity: Even IP Addres: N/A IP Port: N/A Estimated Send Time: 0:00:02 File Name File Size config tbl 89 BIRTHDAY.EZT 41
	Remove	Removes selected messages from the job list. When this is done, the removed messages do not appear.
	View Log	Shows all items sent each day and creates a log file for each day's items.
File	Error Log	Shows the message error log which is a list of failed message transmissions. Use <i>Resubmit</i> to resend a failed transmission, <i>Details</i> to see the details of a particular transmission, and <i>Delete</i> to remove a job.
	Set Options	Use to enable or disable saving the log file. You can also set how many days of log files will be saved. This is useful is you have limited disk space. Also, a 24-hour time format (00:00 to 23:59 instead of using AM or PM) can be set for all signs. When this is checked, all signs will display the time in 24-hour format (for example, 13:00 instead of 1:00 PM).
	Exit	Quits Communications Manager.

Table 30: Communications Manager

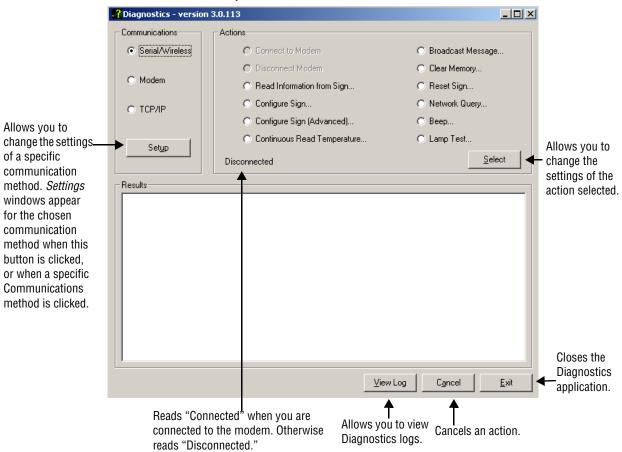
Diagnostics

Diagnostics allows you to test the functions of a single Alpha® sign or a network of Alpha® signs. Diagnostics can:

- transmit messages or beeps to a sign.
- receive specific information (serial address, firmware version, time, temperature, and so on) from a sign.
- set specific information (date, time, temperature, and so on) on a sign.
- reset a sign.
- clear a sign's memory.

Diagnostics can only be launched through the *Start* menu (*Start>Programs>AlphaNET>Diagnostics*). Any changes you make within the Diagnostics application will be saved and appear the next time you open it.

For the best diagnostic result, perform one Diagnostics function at a time. A log file, which contains a record of each function Diagnostics is asked to perform, is automatically created and stored in the same directory as the software itself.



Each action in Diagnostics requires that you select the address of the signs on which you want information. To do this, click the **Select Address** button when it appears:

It is generally better and much faster to retrieve information when you specify the address of a particular sign or signs rather than choosing all addresses.

Select Selected Addresses/ and then use the Address to Add to List drop-down menus to specify the address of the sign on which you want information. Then click Add. Repeat for each sign address.

Note that the addresses must be added in hexadecimal.

Select Addresses	
Address to Add to List: Address:	Add
Address List:	
	<u>R</u> emove All Remove <u>L</u> as
	<u>O</u> K <u>C</u> ancel
	1
	Click <i>OK</i>
	when done.

IVIE	enu item	Description
	Serial/Wireless	Use the drop-down menus to set the COM port, baud rate, and data format for a serial or wireless connection: Click here if you want AlphaNET TM to determine this information for you. You. You. You. You. Com Port: Baud Rate: JGEOD Data Format: B.N.1 QK Cancel
Communi- cations	Modem	Complete the information for the transmitting modem for a modem connection: Transmitting Modem Setup Com Port Connected to Modem: Baud Rate: 9600 Data Format: B.N.1 Dialing Prefix: Initialization String: Number to Dial: Timeout (in Seconds): 30 Configuration String: AT&H0&R1&&B1&&N6&Y0&W/0
	TCP/IP	Fill in the IP Address and Port information for a TCP/IP connection:
Actions	Connect to Modem	Connects Diagnostics to the receiving modem in your sign.
	Disconnect Modem	Disconnects Diagnostics from the receiving modem in your sign.

Table 31: Diagnostics

Me	enu item	Description								
Me	enu item Read Information from Sign	Description Displays the information you can request from a sign. Read Information from Sign Requested Information Sign Size Register List of Text, Dot, String Files Test Mode Register List of Quick Flicks\GIFs Serial Address Register Serial Error Status Serial Data Register Counter Information DIP Switch and Memory Size Register Date Dim Time (Outdoor Signs Only) Time Dimming Register (Outdoor Signs Only) Internal Temperature (Outdoor Signs Only)								
		Image: Temperature Log (Outdoor Signs Only) Select Address Send Cancel Select the information you want Diagnostics to retrieve by clicking the appropriate boxes, and then select the sign addresses. When finished, click Send.								
Actions	Configure Sign	Allows you to set specific information on a sign.								

Menu item		Description							
		Allows you to set additional specific information on a sign.							
		Configure Sign (Advanced)							
		Set Sign Size Set Other Options							
	Menu item Configure Sign (Advanced) Continuous Read Temperature	Column Size: Clear Memory on Power Up? No							
		Row Size: Master/Slave: Master							
		Set Serial Address Demo Message: Off							
		Address: 0 V 0 V Color: Mono V							
	Configure Sign	Currently Selected: 00 IR: Off							
		Initiate Test Mode RS485 Echo: Off							
		Test Mode: Run Normally							
		E Cal Circ Cariel Data Farmat							
Actions		Sign Baud Rate/Data Autobaud Format:							
		Select <u>A</u> ddress <u>S</u> end <u>C</u> lose							
		Complete the information you want Diagnostics to set, and then select the sign addresses. When finished, click <i>Send</i> .							
		Allows you to continually check a sign's internal or external temperature.							
		Continuous Read Temperature							
		How Often to Read Temperature: 15 Seconds							
		Results:							
		Select Address Storp Exit							
		Select which temperature Diagnostics should check, then use the drop-down menu to choose how often. Finally, select the sign addresses. When finished, click <i>Start</i> . Use the <i>Results</i> area to view a log of the temperatures.							
		Click <i>Stop</i> when you want to stop the transmission.							

	Menu item	Description
	Broadcast Message	Allows you to send a message to one or more signs, or to continually send a series of messages to one or more signs.
	Clear Memory	sign addresses. When finished, click <i>Send.</i> Deletes all text and DOTS files from a sign. Choose the sign addresses in the Select Addresses window that appears and click <i>OK</i> .
	Reset Sign	Restarts a sign. Choose the sign addresses in the Select Addresses window that appears and click <i>OK</i> .
Actions	Network Query	Identifies a sign. Network Query Query All Addresses Query up to Highest Address Currently Selected: QK Choose whether you want to check all addresses or up to the highest address, and then click OK.
	Веер	Sends three short beeps to a sign. Choose the sign addresses in the Select Addresses window that appears and click <i>OK</i> .
	Lamp Test	Indicates whether any LEDs have burned out in a sign.
Results		Information about an action Diagnostics performs is logged here.

Diagnostics



Appendix A — Macintosh® computer setup

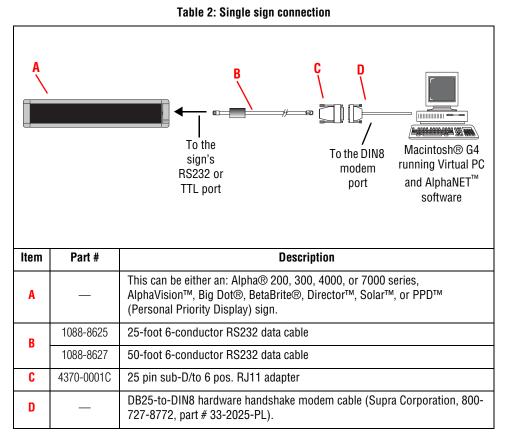
The following instructions describe how to use a Macintosh[®] computer running Virtual PC^1 with AlphaNETTM 3.0 software.

Required software and hardware

Table 1: Required software

Qty	Part #	Description
1	—	Macintosh® G4 computer
1	_	Virtual PC ¹ for Macintosh® (This emulates Windows® 98, ME, and 2000 software.)
¹ Av	vailable fro	m MacWarehouse (800-255-6227).

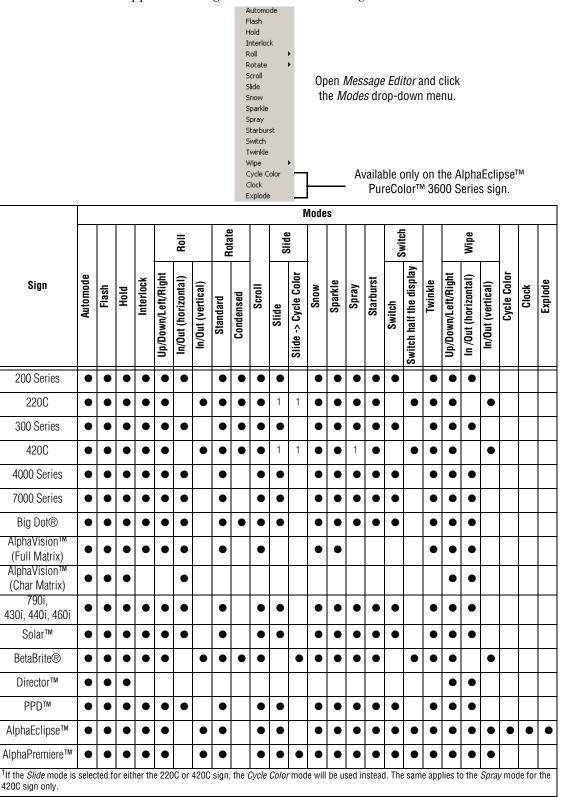
Single sign connection



Multiple sign connection

Since there are a number of ways to network signs, see the **Networking Alpha Signs** manual (pn 9700-0112).

Appendix B — Modes available on signs

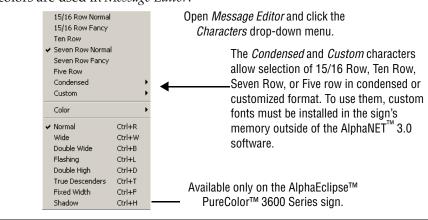


Modes are special effects used to change the way a message appears on a sign and are used in *Message Editor*:

Mode	Function
Automode	This is the default mode, which actually consists of using all other modes available to each sign. If no other mode is selected, the message will appear in automode.
Flash	All characters flash off and on from the point of <i>Flash</i> mode until the point where another mode is selected, if any.
Hold	Holds the message or specified text in a fixed place for several seconds.
Interlock	Alternating rows of dots enter from each direction on a sign and interlock to form the message in the center of the sign.
Roll	Rolls the characters in the message in their entirety onto the sign in the desired direction. You can choose to roll up, down, left, right, in, or out.
Rotate	Rotates a message from right to left across the sign without stopping. For certain signs, text can be condensed or standard.
Scroll	Moves the message one line at a time from the bottom to top of the sign. The previous line is pushed off the sign.
Slide	The message moves onto the sign from one direction to the other, one character at a time.
Snow	The dots of each character in the message fall randomly onto the sign as if it is snowing.
Sparkle	The message sparkles onto the sign by randomly filling the letters of the message (at the start of the message display only).
Spray	The message is sprayed onto and across the sign, left to right, column by column, and character by character.
Starburst	Random starbursts explode over and around letters of the message on the sign.
Switch	Alternating characters of the message slide onto the sign from different directions. In other words, the first character slides up, the next down, and so on. For some signs, instead of alternating characters switching, one half of the message on the sign slides up while the other half of the message slides down.
Twinkle	The message appears in its entirety in a twinkling effect with lights flickering off and on for the duration of the message display.
Wipe	The message is wiped onto the sign in the direction specified, filling in each of the characters row by row or column by column. It looks as if it is washing over the old message. You can choose to roll up, down, left, right, in, or out.
Cycle Color	Colors cascade through the message from the bottom up.
Clock	The message is wiped off and then on the display as if a second hand were sweeping around it.
Explode	The message rolls from the center of a display outward in all four directions at once.

Table 3: Mode descriptions

Appendix C — Character fonts and colors available on signs



AlphaNETTM 3.0 software allows you to change the character shapes and colors that are used in messages. The *Characters* option and colors are used in *Message Editor*:

	Characters														
Sign	15/16 Row Normal	15/16 Row Fancy	Ten Row	Seven Row Normal	Seven Row Fancy	Five Row	Color (see NOTE)	Normal	Wide	Double Wide	Flashing	Double Height	True Descenders	Fixed Width	Shadow
200 Series				٠	•	٠	٠	٠	٠	٠				٠	
220C				٠	•	٠	•	•	٠	٠	•			٠	
300 Series				•	•	•	•	•	•	•	•			•	
420C				•	•	•	•	•	•	•	•			•	
4000 Series	•	•		•	•	•	•	•	•	•	•			•	
7000 Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Big Dot®				•	•	•	•	•	•	•	•			•	
AlphaVision™ (full matrix)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
AlphaVision™ (character matrix)				•		•	•	•			•				
790i, 430i, 440i, 460i				•		•		•	•	•				•	
Solar™	•	•		•	•	•	•	•	•	•	•			•	
BetaBrite®				٠	٠	٠	•	٠	٠	٠	٠			٠	
Director™				•		•	•	•			•				
PPD™				•	•	•		•	•	•	•			•	
AlphaEclipse™	•	•		•	•	•		•	•	•	•			•	•
AlphaPremiere™	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

Appendix D — Display Options available on signs

Options is a *Message Editor* menu composed of special features, such as animation, and is used by AlphaNETTM 3.0 software to enhance the way a message appears on a sign:



Open *Message Editor* and click the *Options* drop-down menu.

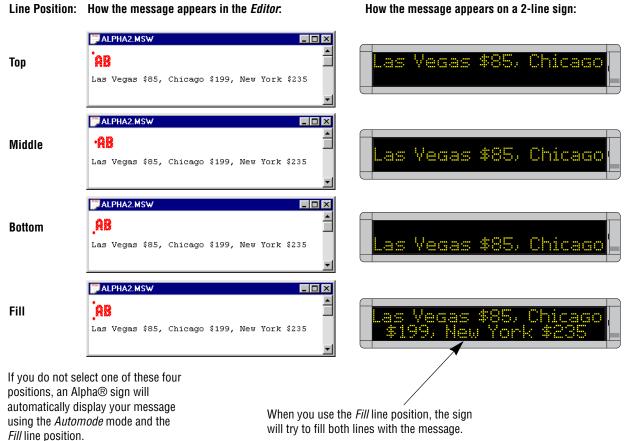
Not available on an AlphaEclipse™ PureColor™ 3600 Series sign.

	Options															
Sign	Time	Date	Tomnovotnivo		Speed	New Line	New Page	Animation	String	Ticker Symbol	Variable	Counter	Graphic (see NOTE)	Gif (see NOTE)	Flick (see NOTE)	Message
	ΪĹ	Ω	Fahrenheit	Celsius	Sp	New	New	Anin	St	Ticker	Var	Col	Graphic (Gif (se	Flick (s	Mes
200 Series	•	•			٠	•		٠	•	٠	•	•	٠			•
220C	٠	٠			٠	٠		•	•	٠	٠	•	٠			•
300 Series	٠	٠			٠	•		٠	٠	٠	٠	٠	٠			•
420C	•	٠			٠	•		٠	٠	٠	•	•	٠			•
4000 Series	٠	٠			•	٠		٠	٠	٠	٠	٠	•			•
7000 Series	•	•			•	•	•		٠	•	•	•	•	•	•	•
Big Dot®	٠	٠			•	٠		٠	٠	٠	٠	٠	•			•
AlphaVision™ (full matrix) AlphaVision™	•	•			•	•	•		•	•	•	•	•	•	•	•
(character matrix) 7901,	•	•			•	•	•		•	•	•	•				•
430i, 440i, 460i	•		•	•	•	•		•	•	•	•	•	•			•
Solar™	٠	•	•	•	٠	٠		٠	٠	٠	٠	٠	٠			•
BetaBrite®	•	٠			•	•		٠	•	•	•		•			•
Director™	•	•			•	•			•	•	•	•				•
PPD™	•	٠			•	٠		٠	•	٠	•		•			•
AlphaEclipse™	•	•	•	•	•	•		•	٠	•	•	•	•	٠		•
AlphaPremiere™	•	•			•	•	•	•	•	•	•	•	•			•

Appendix E — Understanding message line positions (Top, Middle, Bottom, Fill)

Line position refers to where a message is displayed on a sign — the top, middle, bottom, or fill. Line position is available with most modes, such as *Hold*, *Snow*, or *Sparkle*.

An example of line position follows:



win try to fin both in

Types of signs

Signs are categorized by number of lines of text.

- Single-line (BetaBrite®, 215R & 215C, 220, 300 series, 400 series, Big Dot®) These signs are of varying lengths but are always 7 dots high.
- Two-line (4000 series) These signs are of varying lengths but are always 16 dots high.
- Three-line (7000 series) and multiple-line full matrix (AlphaVision[™]) — These signs are of varying heights and widths.
- Multiple-line character matrix (AlphaVisionTM, DirectorTM).
- These signs are of varying heights and widths, but have character

blocks with spaces between.

Single-line signs (BetaBrite®, 215R & 215C, 220, 300 series, 400 series, Big Dot®)

On a single-line sign, all characters line up at the bottom of the sign and work their way up as many dots as the font supports. For example:



Exception conditions:

- If the sign receives a font that is larger than the sign can display, it will size it down.
- 7-high normal characters are substituted for any 15-high normal characters.
- 7-high fancy characters are substituted for any 15-high fancy characters, and so on.
- If a graphic is received that is taller than the display can show, the top seven rows are displayed.
- If a graphic is received that is wider than the display can show, it will show the left-most columns of the picture.
- If a graphic is received that is smaller than seven dots tall, it will be displayed from the bottom of the sign up, similar to the 5-dot character set shown above.
- If a character set is not established in the message, 7-high normal characters are used.
- If top, bottom, or fill positions are received, middle is used.

Two-line signs (4000 series)

Top position

On a double-line sign, the *Top* position is defined as the top 7 dots of the sign and operates in the same manner as a one-line sign. See exception conditions for a single-line 7-row sign.

Bottom position

The *Bottom* position is defined as the bottom 7 dots of the sign and is treated as a one-line sign. See exception conditions for a for a single-line 7-row sign.

Middle position

The *Middle* position is treated as though it were one line of 16 dots. Each line of text presented on that line is prescanned to determine the largest piece of text (or graphic object) to be displayed. The line of text is then vertically centered based on the largest object. For example, if you have a line of text which has mostly 5-high characters, but has one 10-high character, the line is viewed as a 10-row high line, and since this is a 16-row sign, that leaves 6 extra rows — 3 blank rows on the top and 3 blank rows on the bottom. All text and objects are then lined up to this new virtual bottom (the 13th line) and treated the same as in a single-line sign.

Exception conditions:

- If the sign receives a font that is larger than the sign can display, it will size it down. On this sign, in the middle position, the only characters that are too large are characters using the double-high control code. This control code is ignored.
- If a graphic is received that is taller than the display can show, the top sixteen rows are displayed.
- If a graphic is received that is wider than the display can show, it will show the left-most columns of the picture.
- If a character set is not established in the message, 16-high normal characters are used.

Fill position

On a 4000 series sign, the *Fill* position indicates that you want to use no more than 7-high characters and that you want to fit as much text on the screen as you can. When in this mode, the sign views itself as having two lines of 7-high characters and no means of handling a character set larger than 7-high. If a graphic is selected, at most seven rows of that graphic will be displayed. If the last piece of text to be displayed (towards the end of the message) is only one line of text, the sign will place 4 blank rows of dots at the top and the bottom of the text in order to center the last line of text vertically.

If the sign is operating on the top row, the bottom of that row is assumed to be the 7th row of dots. All text is started from there and worked up. (5-row characters will use rows 3 - 7, while 7-row characters will use rows 1 - 7.)

If the sign is operating on the bottom row, it works its way up from row 16. (5-row characters will use rows 12 - 16, while 7-row characters will use rows 10 - 16.)

Exception conditions:

- If the sign receives top, bottom, or fill modes and also a font that is larger than 7-high, it will size it down. 7-high normal characters are substituted for any 15-high normal characters. 7-high fancy characters are substituted for any 15-high fancy characters received, and so on.
- If a graphic is received that is taller than 7 rows high (15-high for the *Middle* position), the top 7 rows (top 15 for the *Middle* position) are displayed.
- If a graphic is received that is longer than the display can show, it will show the left-most columns of the picture.
- If a character set is not established in the message, 7-high normal characters are used.

Triple-line (7000 series) and AlphaVision[™] Full Matrix

Top/Bottom

These two positions work together. There is an imaginary line between the top half and the bottom half of the display. We will call this line the centerline. In the example below, the centerline is between the *Hello* and the *lots of text about basically*. The centerline divides what is used on the sign for top position commands from what is used for bottom.



Establishing the position of the centerline

The centerline position is typically established by the first top command received and the rest of the space is used for the bottom. If the bottom command comes first, the centerline is placed at its highest possible position, row 8, allowing for one line of 7-dot characters on the top. If the top command comes first, and not the bottom, the centerline's position is determined by the amount of text following the position command.

Examples:

- If one 7-dot high line of text is received (following a top command), the centerline will be fixed at row 8.
- If one line of 10-dot characters is received (following a top command), the centerline will be placed at position 11.
- If two lines of 5-dot high characters are received (following a top command), the centerline is placed at row 12 (5 for each line of text, plus the 2 blank rows between the lines).

Two exceptions to the above rules are as follows:

- The centerline is never placed higher than 8 rows from the top of the sign.
- The centerline is never placed lower than 8 rows from the bottom of the sign. This ensures that there is always room for one line of 7-dot high characters on the top or bottom (including one blank row).

Once its position is established, the centerline remains fixed at that position until a *Fill* or *Middle* position command is received. All subsequent top or bottom position commands use the amount of space set by the position of the centerline. You cannot change the position of the centerline with a second top/bottom command. For example:



Middle position

The *Middle* position is treated as though it were one line as many dots high as the sign is tall. Each line of text presented on that line is prescanned to determine the largest piece of text (or graphic object) to be

displayed. The line of text is then vertically centered based on that largest object. For example, if you have a line of text which has mostly 5-high characters, but has one 10-high character, the line is viewed as a 10-row high line. Assuming this is a 24-row sign, that would leave 14 extra rows — 7 blank rows on the top and 7 blank rows on the bottom. All text and objects are then lined up to this new virtual bottom (the 21st line) and treated the same as in a single line sign.

Exception conditions:

- If a graphic is received that is larger than what the display can show, the top-most rows are displayed.
- If a graphic is received that is longer than the display can show, it will show the left most columns of the picture.
- If a character set is not established in the message, 7-high normal characters are used.

Fill position

On a 7000 series or AlphaVisionTM sign, the *Fill* position indicates that you wish to fit as much text on the screen as you can. On these signs, as opposed to the 4000 series, you can select character sets larger than 7-high in the *Fill* position. The sign will start from the top of the screen working down. If you select a 15-row character set, the sign will fit as many 15-row lines of text on the screen as possible. As soon as the sign detects that the next line will not fit, it will stop creating the current page and display it. The next page will begin with the line that would not have fit. If the text does not use up the entire display, the sign will center the text vertically, splitting the blank space between the top and the bottom.

Exception conditions:

- If a graphic is received that is taller than seven rows high, the top seven rows are displayed.
- If a graphic is received that is wider than the display can show, it will show the left-most columns of the picture.
- If a graphic is received that is smaller than seven dots tall, it will be displayed from the bottom of the sign up, similar to the 5 dot character set explained above.
- If a character set is not established in the message, 7-high normal characters are used.

AlphaVision™ Character Matrix sign

This sign works exactly like the three-line (7000 series) and AlphaVisionTM Full Matrix signs, with the following exceptions.

Exception conditions:

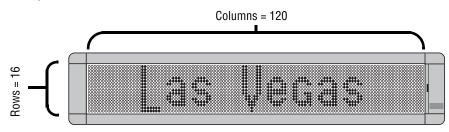
- If a mode other than *Wipe* is received, it is replaced with *Hold*.
- An AlphaVision[™] sign ignores any of the following: graphics, any character set command except 5- and 7-high normal wide, double-wide, double-high, true descenders, proportional spacing, and animations.
- If a character set is not established in the message, 7-high normal characters are used.

Appendix F — How text and graphics are displayed on signs

Each sign is made up of a display area of columns and rows of LED pixels that can be turned on and off and that can display different colors (for color signs).

Columns and rows make up a sign

For example, a 4120C (or 4120R) sign has a total display area of 120 x 16:

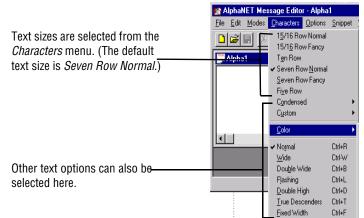


Sign		Display area (col x rows)	Colors
BetaBrite®	1-line sign	80 x 7	8
Big Dot®	1-line sign	80 x 7	
215 Series	215R or C	90 x 7	
220	220C	2 lines of 120 x 7	1
300 Series	320C or R	120 x 7	- 8
	330C or R	180 x 7	
4000 Series	4080C or R	80 x 16	3
	4120C or R	120 x 16	
	4160C or R	160 x 16	
	4200C or R	200 x 16	
	4240C or R	240 x 16	
7000 Series	7080C	80 X 24	- 3
	7120C	120 x 24	
	7160C	160 x 24	
	7200C	200 x 24	
Outdoor displays	790i	90 x 7	1
	Solar [™] series	96 x 16 to 192 x 16	1
	AlphaEclipse™	various	1
AlphaVision™	Display areas from 128 x 32 to 256 x 128.		3
Director™	8 lines of 16 characters		8
PPD™	2 lines of 120 x 7		1
AlphaPremiere™ Series	9080C or R	80 x 32	3
	9120C or R	120 x 32	
	9160C or R	160 x 32	
	9200C or R	200 x 32	
	9240C or R	240 x 32	
	in "C", such as 4120C, as 4120R, can display	have color capabilities. Sig in red only.	gn names

 Table 4: The number of columns and rows in signs

Text comes in four basic sizes

The *Characters* menu contains a list of available text sizes, such as 15/16 *Row Normal* and *Ten Row*, and options such as *Wide* and *Flashing*:

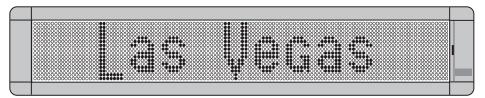


The four basic text sizes are 15/16 Row (Normal and Fancy), Ten Row, Seven Row (Normal and Fancy), and Five Row. These are also available in compressed form. Customized variations can be installed into the sign's firmware and accessed in the software.

Below are examples of how the message *Las Vegas* \$85, *Chicago* \$199 would appear on a two-line 4120C or 4120R sign in all four basic text sizes (except Ten Row):

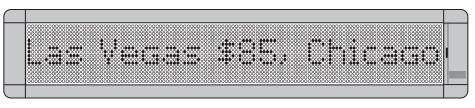
15/16 Row Normal

Characters are 15 or 16 rows high and about 9 columns wide:



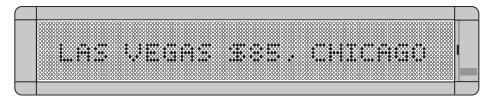
Seven Row Normal

Characters are 7 rows high and about 6 columns wide:



Five Row

Characters are 5 rows high and about 5 columns wide:



Graphics must be bitmapped to a sign's columns and rows

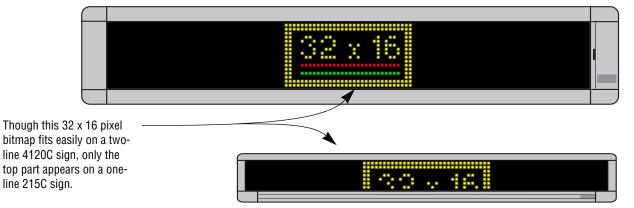
Before you create a bitmap image for a sign, you must first know the display area of that sign. (See "Columns and rows make up a sign" on page 138).

The columns and rows that make up a sign's display area also represent the maximum pixel size of an image that can be put on the sign. For example, a 4120C (or 4130R) sign has a total display area of 120 columns x 16 rows. This means that the largest image a 4120C could display would be 120 pixels long x 16 pixels high:



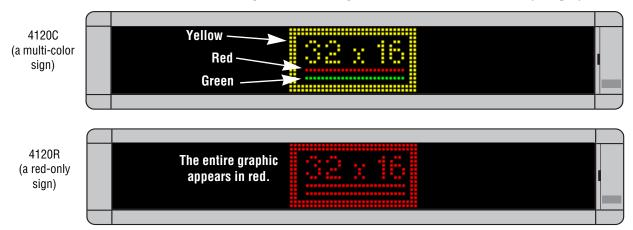
A graphic may be too big for some signs

Because signs vary in size, make sure the images you create can fit on all your signs:



A graphic may be the wrong color for some signs

Only sign names ending in "C" have color capabilities such as the 4120C. Sign names ending in "R", like the 4120R, can only display red:



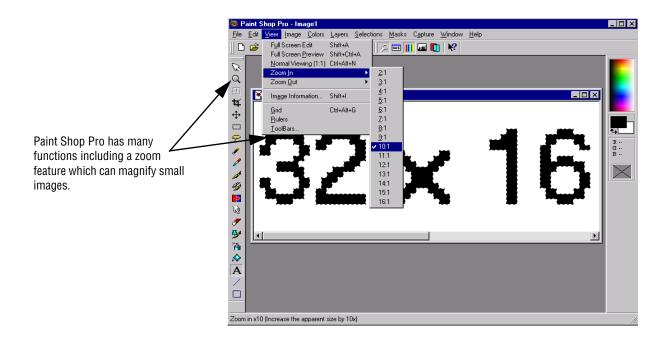
Paint Shop Pro — a bitmapped image editor

Paint Shop Pro is included with the AlphaNET[™] software (for a limited time — see below). However, other programs can be used to create and edit images. At a minimum, the program you use should have a zoom feature which allows you to magnify the image you are editing because images used on signs are typically 32 x 32 pixels or less in size. (That's very small!)

While there are many great commercial programs available, you may not need all their features—or want to pay the price for them.

Paint Shop Pro is a shareware bitmap image editor program. JASC, the makers of Paint Shop Pro, allow you to use it free for 30 days. After that, you will have to purchase it. This manual uses version 5 of Paint Shop Pro. You may have an earlier version.

Paint Shop Pro has many features, including a zoom.



Where can you get a copy of Paint Shop Pro?

- JASC Software, Inc. PO Box 44997
 Eden Prairie, MN 55344
 612-930-9171 (9 am to 5 pm USA Central Time)
- World Wide Web http://www.jasc.com/

Appendix $\rm F$ — How text and graphics are displayed on signs