

# PCTerm UNICO Terminal Emulator 804333.030

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## Contents

NTRODUCTION     3       MENU ITEMS AND FEATURES     3       FIF     3       Save Screen As     3       Exit     3       LOAD     4       Kermit File Receive     4       Kermit File Receive     4       Kermit File Receive     4       Kermit Program Load     6       Kermit Program Load     7       Binary Fast Load     9       SREC Load - Device     00       SREC Load - Device     11       SREC Load - Blaster     11       SREC Load - Blaster     11       SREC Load - Blaster     11       SREC Load - Codu     13       ASCII File Send     14       VIEW     16       RCA     16       VT-100     23       Show Invisibles     26       Small Font     26       Large Font     27       Color Disabled     27       Color Disabled     27       Colar Screen     29       J tines x 80 Chars     28	CONTENTS	2
MENU ITEMS AND FEATURES   3     FILE   3     Save Screen As   3     Ext.   3     LOAD.   4     Kermit File Receive   4     Kermit File Send   5     Kermit File Send   6     Kermit Switcher Network Load   6     Switcher Network Load   9     SNEC Load – Device   9     SREC Load – Blaster   11     SREC Load – Blaster   12     SREC Load – Blaster   13     ASCH File Send   14     VIEW   16     RCA   16     VT-100   23     Show Invisibles   26     Small Font   26     Lines x 40 Chars   28     24 lines x 80 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     25 Protocol Settings   35     Ontion Meritsbes   35     Simple Plot   32     Simple Plot   32     Serial   41     Aubus Serial Port Release   41     <	INTRODUCTION	3
FILE   3     Save Screen As   3     Exit   3     LoAD   4     Kermit File Receive   4     Kermit File Send   5     Kermit File Send   6     Kermit Switcher Network Load   6     Kermit Switcher Network Load   9     Switcher Network Load   9     SKEC Load – Device   10     SREC Load – Device   10     SREC Load – Device   11     SREC Load – Even   12     SREC Load – Odd.   13     ASCII File Send.   14     VIEw   16     RCA.   16     VT-100.   23     Show Invisibles   26     Show Invisibles   26     Show Invisibles   26     Show Invisibles   27     Color Disabled   27     I Lines x 40 Chars   28     8 Lines x 80 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     25 Lorge Fort   32     Simple Plot   32	MENU ITEMS AND FEATURES	3
Save Screen As.     3       Exit     3       LOAD.     4       Kermit File Receive     4       Kermit File Send.     5       Kermit Program Load.     6       Kermit Program Load.     6       Kermit Switcher Network Load.     7       Binary Fast Load.     8       Switcher Network Load.     9       SREC Load – Device     10       SREC Load – Biaster     11       SREC Load – Biaster     12       SREC Load – Odd.     13       ASCII File Send.     14       VIEW.     16       RCA.     6       VT-100.     23       Show Invisibles     26       Large Font.     27       Color Disabled     27       Cloior Disabled     27       Cloior Disabled     27       VIEW.     28       24 lines x 40 Chars.     28       24 lines x 40 Chars.     29       Display Function Keys.     30       Ontine Devices.     30       Outick Baud <td>File</td> <td></td>	File	
Exit   3     LOAD   4     Kermit File Receive   4     Kermit File Send   5     Kermit Switcher Network Load   6     Remit Switcher Network Load   7     Binary Fast Load   8     Switcher Network Load   9     SREC Load – Device   10     SREC Load – Device   11     SREC Load – Odd   12     SREC Load – Odd   13     ASCII File Send   14     VIEW   16     RCA   16     VT-100   23     Show Invisibles   26     Small Font   26     Large Font   27     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 80 Chars   29     24 lines x 80 Chars   29     25 ErUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Quick Baud   39     Mermit Stetings   35     Online	Save Screen As	3
LOAD.   4     Kermit File Receive   4     Kermit File Send.   5     Kermit File Send.   6     Kermit Switcher Network Load.   7     Binary Fast Load.   8     Switcher Network Load   9     SREC Load – Baster   10     SREC Load – Baster   11     SREC Load – Baster   12     SREC Load – Baster   14     VIEW.   16     RCA   16     VT-100.   23     Show Invisibles   26     Small Font   27     Color Disabled   27     Color Disabled   27     V Lines x 40 Chars   28     24 Lines x 40 Chars   28     24 Lines x 40 Chars   29     24 Lines x 80 Chars   29     24 Lines x 80 Chars   29     25 StrUP   35     Protocol Settings   36     Ould Devices   38     Quick Baud   39     Kermit Settings   30     Online Devices   38     Quick Baud   39 <t< td=""><td>Exit</td><td> 3</td></t<>	Exit	3
Kermit File Seccive     4       Kermit File Send     5       Kermit Brogram Load     6       Kermit Switcher Network Load     7       Binary Fast Load     7       Binary Fast Load     9       Switcher Network Load     9       Switcher Network Load     9       Switcher Network Load     9       Switcher Network Load     9       SkEC Load – Device     10       SREC Load – Blaster     11       SkEC Load – Odd     13       ASCH File Send     14       VIEw     16       RCA     16       VT-100     23       Show Invisibles     26       Large Font     27       Color Disabled     27       4 Lines x 40 Chars     28       24 lines x 40 Chars     28       24 lines x 40 Chars     29       24 lines x 80 Chars     29       24 lines x 80 Chars     29       25 Intyle Flot     32       Sumple Plot     32       Simple Plot     32	LOAD	4
Kermit File Send.     5       Kermit Program Load.     6       Kermit Svitcher Network Load.     7       Binary Fast Load.     8       Switcher Network Load     9       SREC Load – Device     10       SREC Load – Blaster.     11       SREC Load – Blaster.     11       SREC Load – Blaster.     11       SREC Load – Odd.     13       ASCH File Send.     14       VIEW.     16       RCA.     16       VT-100.     23       Show Invisibles     26       Small Font     26       Large Font     27       Color Disabled     27       Color Disabled     27       VIEWs x 40 Chars     28       24 lines x 40 Chars     28       24 lines x 80 Chars     29       24 lines x 80 Chars     30       Clear Screen     31       DATA     32	Kermit File Receive	4
Kermit Program Load     6       Kermit Switcher Network Load     7       Binary Fast Load     8       Switcher Network Load     9       SREC Load – Device     10       SREC Load – Device     10       SREC Load – Blaster     11       SREC Load – Blaster     11       SREC Load – Old     13       ASCII File Send     14       VIEw     16       RCA     16       VT-100     23       Show Invisibles     26       Small Font     26       Large Font     27       Color Disabled     27       Valies x 40 Chars     28       24 lines x 40 Chars     28       24 lines x 80 Chars     29       24 lines x 80 Chars     29       25 Simple Plot     32       Simple Plot     32       Simple Plot     32       Settup     38       Quick Baud     39       Kermit Stetings     41       VIEw     41       Kermit Stetings     41<	Kermit File Send	5
Kermit Switcher Network Load   7     Binary Fast Load   8     Switcher Network Load   9     SREC Load – Device   10     SREC Load – Device   11     SREC Load – Device   11     SREC Load – Device   12     SREC Load – Odd.   13     ASCII File Send   14     View   16     RCA   16     VT-100   23     Show Invisibles   26     Small Font   26     Large Font   27     Color Disabled   27     Color Disabled   27     Z lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     Simple Plot   32     Simple Plot   32     Serup   33     Quick Baud   34     Archive Text.   32     Sprotocol Settings	Kermit Program Load	6
Binary Fast Load   8     Switcher Network Load   9     SREC Load – Device   10     SREC Load – Blaster   11     SREC Load – Even   12     SREC Load – Old.   13     SREC Load – Old.   14     VIEW   16     RCA   16     RCA   16     VT-100   23     Show Invisibles   26     Show Invisibles   26     Show Invisibles   26     Show Invisibles   27     Color Disabled   27     Color Disabled   27     Vines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     SetUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Mout Pot Term   41     HeLP   <	Kermit Switcher Network Load	7
Switcher Network Load     9       SREC Load – Device     10       SREC Load – Device     11       SREC Load – Even     12       SREC Load – Odd.     13       ASCII File Send.     14       VIEW.     16       RCA     16       Now Invisibles     26       Show Invisibles     26       Small Font     26       Color Disabled     27       Color Disabled     27       4 Lines x 40 Chars     28       24 lines x 40 Chars     28       24 lines x 80 Chars     29       Display Function Keys     30       Clear Screen     31       DATA     32       Archive Text     32       Simple Plot     32       SetTUP     35       Ontice Raud     39       Kermit Settings     40       Dutta     33       Settings     34       Settings     35       Ontine Devices     35       Ontine Devices     35	Binary Fast Load	8
SREC Load – Device   10     SREC Load – Blaster   11     SREC Load – Odd   12     SREC Load – Odd   13     ASCII File Send   14     View   16     RCA   16     VT-100   23     Show Invisibles   26     Large Font   26     Large Font   27     Color Disabled   27     Color Disabled   27     Color Disabled   27     Z lines x 40 Chars   28     24 lines x 40 Chars   28     8 Lines x 40 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     25 Simple Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   35     Protocol Settings   35     Online Devices   35     Seriul   43     Quick Baud   39     Kermit Settings   40     MellP   43     Serial   43	Switcher Network Load	9
SREC Load - Blaster.   11     SREC Load - Even   12     SREC Load - Old   13     ASCII File Send   14     VIEW   16     RCA.   16     VT.100   23     Show Invisibles   26     Small Font   26     Large Font   26     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 40 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SetTUP   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Allow Serial Port Release   42     PROTOCOL   43     Serial   41     Allow Serial Port Release   42     PROTOCOL   43     VIEW   44     Help Topics   44     Help Topics   44	SREC Load – Device	10
SREC Load – Even   /2     SREC Load – Odd.   /3     ASCII File Send   /14     VIEW.   /16     RCA   /16     VT-100.   /23     Show Invisibles   /26     Small Font   /26     Large Font   /27     Color Disabled   /27     Z lines x 40 Chars   /28     24 lines x 40 Chars   /28     24 lines x 40 Chars   /29     Display Function Keys   /30     Clear Screen   /31     DATA   /32     Simple Plot   /32     Simple Plot   /32     SetTUP   /35     Protocol Settings   /35     Online Devices   /38     Quick Baud   /40     Meliow Serial Port Release   /41     Allow Serial Port Release   /41     Allow Serial Port Release   /41     Allow Define Function Key Strings   /41     Allow Define Function Key Strings   /41     Allow Define Function Key Strings   /41     Alexity Portocol   /43 <t< td=""><td>SREC Load – Blaster</td><td>11</td></t<>	SREC Load – Blaster	11
SREC Load - Odd.   13     ASCII File Send.   14     VIEw   16     RCA.   16     VT-100.   23     Show Invisibles   26     Small Font   26     Large Font   27     Color Disabled   27     Color Disabled   27     Views X 40 Chars   28     24 lines x 40 Chars   28     24 lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Simple Plot   32     Simple Plot   32     Stups   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     ControlNet   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44 <td>SREC Load – Even</td> <td> 12</td>	SREC Load – Even	12
ASCII File Send.   14     VIEW.   16     RCA.   16     VT.100.   23     Show Invisibles.   26     Small Font   26     Large Font   26     Color Disabled   27     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 80 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SetUP.   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   41     Allow Serial Port Release   42     PROTOCOL   43     HELP   44     Help Topics   44     ControlNet   43     HELP   44     Allow Serial Low   44     Command Line   44	SREC Load – Odd	13
VIEW   16     RCA   16     VT-100   23     Show Invisibles   26     Small Font   26     Large Font   27     Color Disabled   27     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 80 Chars   29     25 linplay Function Keys   30     Clear Screen   31     DATA   32     Simple Plot   32     Simple Plot   32     SetUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44 <td>ASCII File Send</td> <td>14</td>	ASCII File Send	14
RCA   16     VT-100.   23     Show Invisibles   26     Small Font   26     Large Font   27     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 40 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Simple Plot   32     StrUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     HELP   44     Help Topics   44     About PC Term   44     Kotta PC Term   44     Kotta PC Term   44	VIEW	16
VT-100   23     Show Invisibles   26     Small Font   26     Large Font   27     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SETUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     HELP   44     Help Topics   44     About PC Term   44     KomMAND LINE   47	RCA	16
Show Invisibles   26     Small Font   26     Large Font   27     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 40 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     NDEX   47	VT-100	23
Small Font   26     Large Font   27     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     8 Lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SETUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     HELP   44     Help Topics   44     About PC Term   44     KOMMAND LINE   47	Show Invisibles	
Large Font   27     Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     24 lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SetUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     COMMAND LINE   44	Small Font	
Color Disabled   27     4 Lines x 40 Chars   28     24 lines x 40 Chars   28     8 Lines x 80 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SetUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     COMMAND LINE   47	Large Font	27
4 Lines x 40 Chars   28     24 lines x 40 Chars   28     8 Lines x 80 Chars   29     24 lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SetUP   35     Protocol Settings   35     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     MELP   44     Help Topics   44     About PC Term   44     KomMAND LINE   47	Color Disabled	
24 lines x 40 Chars   28     8 Lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SetUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     NDEX   47	4 Lines x 40 Chars	
8 Lines x 80 Chars   29     24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SETUP   35     Protocol Settings   35     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     NDEX   47	24 lines x 40 Chars	
24 lines x 80 Chars   29     Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SETUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     NDEX   47	8 Lines x 80 Chars	29
Display Function Keys   30     Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SETUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     LelP   44     HelP   44     Help Topics   44     About PC Term   44     NDEX   47	24 lines x 80 Chars	29
Clear Screen   31     DATA   32     Archive Text   32     Simple Plot   32     SETUP.   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings.   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     HELP   44     Help Topics   44     About PC Term   44     About PC Term   44     Yex   47	Display Function Keys	30
DATA   32     Archive Text   32     Simple Plot   32     SETUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HeLP   44     Help Topics   44     About PC Term   44     INDEX   47	Clear Screen	31
Archive Text	DATA	32
Simple Plot   32     SETUP   35     Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     COMMAND LINE   47	Archive Text	32
SETUP	Simple Plot	
Protocol Settings   35     Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     INDEX   47	SETUP	
Online Devices   38     Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     INDEX   47	Protocol Settings	
Quick Baud   39     Kermit Settings   40     Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     INDEX   47	Online Devices	
Kermit Settings	Quick Baud	
Define Function Key Strings   41     Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     Command Line   44	Kermit Settings	40
Allow Serial Port Release   42     PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     Command Line   44     44   44     About PC Term   44     44   44     44   44     45   44     46   44     47   47	Define Function Key Strings	41
PROTOCOL   43     Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     COMMAND LINE   44     44   44     45   44     46   47	Allow Serial Port Release	
Serial   43     ControlNet   43     HELP   44     Help Topics   44     About PC Term   44     COMMAND LINE   44     INDEX   47	PROTOCOL	
Control/Net   43     HELP   44     Help Topics   44     About PC Term   44     COMMAND LINE   44     INDEX   47	Serial	
HELP   44     Help Topics   44     About PC Term   44     COMMAND LINE   44     INDEX   47	Control/vet	
Help Topics   44     About PC Term   44     COMMAND LINE   44     INDEX   47		
About PC Term	Help Topics	
COMMAND LINE	ADOULTU TET	
INDEX 47	COMMAND LINE	44
	INDEX	47

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## Introduction

PC Term is a terminal emulator with target code management facilities. PC Term can communicate with simple ASCII characters through the serial port of an IBM compatible PC or through a ControlNet<sup>TM</sup> interface card and Rockwell Software's RSLinx<sup>TM</sup>.

## Menu Items and Features

The menu bar for PC Term consists of seven items: File, Load, View, Data, Setup, **Protocol**, and **Help**. The following will discuss the contents of each menu item.

## File

## Save Screen As



This feature saves the contents of the current screen to a text file. The standard file dialog appears and prompts the user for the file to save the screen text. Alternatively, Alt + S may be typed to perform this function.

## Exit



Closes the application.

#### Load

There are several ways to load application files to UNICO S4000 devices. These are **Binary Fast Load...**, **Switcher Network Load...**, and the **SREC Load** options. In addition, program loads for the UNICO Synopsys operating system can be performed with the **Kermit Program Load...** and **Kermit Switcher Network Load...** options which include error checking on the packets.

The **ASCII File Send...**, **Kermit File Receive...**, and **Kermit File Send...** options perform more generic operations that are not specific to any UNICO device.

🖳 C	OM1:1	9200	Baud -	pcterm		
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke	rmit File	Alt	+U		
	Kermit File <u>S</u> end					
	Kermit <u>P</u> rogram Load Alt+L					
	Kermit Switcher <u>N</u> etwork Load					
	Binary <u>F</u> ast Load				Alt	+F
	Switcher Network <u>L</u> oad				Alt	+N
	SREC Load - <u>D</u> evice Alt+R				+R	
	SREC Load - Blaster				Alt	+B
	SREC Load <u>E</u> ven				Alt	+E
	SF	EC Lo	Alt	+0		
	<u>A</u> S	CII File	Send		Alt	+

## Kermit File Receive

PC Term responds to selection of the **Kermit File Receive...** request by opening the standard file dialog box. By default the sample will be captured in a file called "KermitFile.txt". The user has the option of modifying this name and the directory in which the file is stored. Once the file name and directory have been established, select the "Save" option to create the file and begin reception of the file through Kermit. While transmission is in progress, PC Term provides a dialog window that reports on the status of the transaction as shown below. Alternatively, the key sequence Alt + U will also perform this function.

0%	100%
Bytes Received 0	
Packets Received 0	
Err Check: Checksum 1	
Block Size: 1024	
Waiting for Sender to Start	

#### Kermit File Send

🌉 C	OM1:1	9200	Baud -	pcterm	1	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Kermit File <u>R</u> eceive Alt+U					
	Kermit File <u>S</u> end					
	Kermit <u>P</u> rogram Load Alt+L					
	Kermit Switcher <u>N</u> etwork Load					
	Bir	hary <u>F</u> as	Alt	+F		
	Sv	vitcher <b>I</b>	Alt	+N		
	SREC Load - <u>D</u> evice				Alt	+R
	SREC Load - <u>B</u> laster /				Alt	+B
	SREC Load Even Alt+					+E
	SF	REC Loa	ad <u>O</u> dd.		Alt	+0
	AS	CII File	Send		Alt	+

PC Term responds to selection of the **Kermit File Send...** request by opening the standard file dialog box to obtain the file to send. Once the file is selected, click the "Open" button to begin transmission of the file through Kermit. While transmission is in progress, PC Term provides a dialog window that reports on the status of the transaction as shown below.

)%		100% 0%
Bytes Left	9808	
Packets Sent	0	
Err Check: Chec	ksum 1	
Block Size: 102	4	
Timeout - Resen	ding, Retry 1	

#### Kermit Program Load

🌉 C	OM1:1	9200	Baud -	pctern	1	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke	rmit File	Alt	+U		
	Kermit File <u>S</u> end					
	Ke	rmit <u>P</u> ro	gram L	oad	Alt	+L
	Kermit Switcher <u>N</u> etwork Load					
	Binary <u>F</u> ast Load				Alt+F	
	Switcher Network Load				Alt	+N
	SREC Load - <u>D</u> evice Al				+R	
	SREC Load - <u>B</u> laster				Alt	+B
	SREC Load <u>E</u> ven Alt+E				+E	
	SREC Load Odd Alt+O					
	<u>A</u> S	CII File	Send		Alt	+

Selecting **Kermit Program Load...** from the menu opens the standard file dialog box prompting the user for the UNICO S4000 program file to send. These files have the \*.1 extension. Once the file is selected, click the "Open" button to begin transmission of the file through Kermit. While transmission is in progress, PC Term provides a dialog window that reports on the status of the transaction as shown below. Alternatively, the key sequence Alt + L will also perform this function.

)%		100% 0%
Bytes Left	9808	
Packets Sent	0	
Err Check: Chec	ksum 1	
Block Size: 102	4	
Timeout - Resend	ling, Retry 1	

#### Kermit Switcher Network Load



Selecting **Kermit Switcher Program Load...** from the menu opens the standard file dialog box prompting the user for the UNICO S4000 program file to send. These files have the \*.l extension. Once the file is selected, click the "Open" button to begin transmission of the file through Kermit. While transmission is in progress, PC Term provides a dialog window that reports on the status of the transaction as shown below.

)%		100% 0%
Bytes Left	9808	
Packets Sent	0	
Err Check: Chec	ksum 1	
Block Size: 102	4	
Timeout - Resen	ding, Retry 1	

#### **Binary Fast Load**

🌉 C	OM1:1	9200	Baud -	pctern	1	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke	rmit File	Alt	+U (		
	Kermit File <u>S</u> end					
	Kermit <u>P</u> rogram Load Alt+L					
	Kermit Switcher <u>N</u> etwork Load					
	Bir	hary <u>F</u> as	Alt	+F		
	Sw	/itcher I	Alt	+N		
	SREC Load - <u>D</u> evice				Alt	+R
	SREC Load - Blaster				Alt	+B
	SF	EC Loa	Alt	+E		
	SF	IEC Loa	ad <u>O</u> dd.		Alt	+0
	<u>A</u> S	CII File	Send		Alt	+

Selecting **Binary Fast Load...** from the menu opens the standard file dialog box prompting the user for the UNICO S4000 program file to send. These files have the \*.1 extension. Once the file is selected, click the "Open" button to begin transmission of the file through Kermit. While transmission is in progress, PC Term provides a dialog window that reports on the status of the transaction as shown below. Alternatively, the key sequence Alt + F will also perform this function.

Binary File Load File: C:\WINDOWS\	Desktop\programmer.I	
0%		100% 41%
Bytes Left 567 Sending Binary File	6	
	Cancel	

#### Switcher Network Load

🌉 C	OM1:1	9200	Baud -	pctern	n in the second s	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke Ke	rmit File rmit File	Alt	+U		
	Kermit <u>P</u> rogram Load Alt+L Kermit Switcher <u>N</u> etwork Load					
	Binary <u>F</u> ast Load Switcher Network <u>L</u> oad			Alt Alt	+F +N	
	SR SR SR SR	EC Loa EC Loa EC Loa EC Loa	Alt Alt Alt	+R +B +E +0		
	<u>A</u> S	CII File	Send		Alt	+

Selecting **Switcher Network Load...** from the menu opens the standard file dialog box prompting the user for the UNICO S4000 program file to send. These files have the \*.1 extension. Once the file is selected, click the "Open" button to begin transmission of the file through Kermit. While transmission is in progress, PC Term provides a dialog window that reports on the status of the transaction as shown below. Alternatively, the key sequence Alt + N will also perform this function.

Binary Load - Switcher Network File: C:\WINDOWS\Desktop\programme	er.l
0%	100% 47%
Bytes Left 5164 Sending File	
Cancel	

#### SREC Load – Device

🌉 C	OM1:1	9200	Baud -	pctern	n in the second s	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke	rmit File	<u>R</u> eceiv	/e	Alt	+U (
	Ke	rmit File	<u>S</u> end			
	Ke	rmit <u>P</u> ro	gram L	oad	Alt	+L
	Ke	rmit Sw	itcher <u>N</u>	letwork l	_oad	
	Bin	iary <u>F</u> as	t Load.		Alt	+F
	Sw	itcher N	letwork	( <u>L</u> oad	Alt	+N
	SR	EC Loa	ad - <u>D</u> ev	vice	Alt	+R
	SR	EC Loa	ad - <u>B</u> la:	ster	Alt	+B
	SR	EC Loa	ad <u>E</u> ver	n	Alt	+E
	SR	EC Loa	ad <u>O</u> dd.		Alt	+0
	<u>A</u> S	CII File	Send		Alt	+

To load an EPROM file to a S4000 processor, connect the PC to the S4000 device through the serial port. Make sure the baud rate in PC Term is set to be the same as the one the device is expecting. Get the device ready for a file transfer. Selecting **SREC Load – Blaster...** opens the standard file dialog prompting the user for the EPROM program file. Once the file is selected, the following dialog is displayed indicating PC Term is loading to the S4000 device. Alternatively, the key sequence Alt + R will also perform this function.

SREC File Loa File: C:\WIND	d OWS\Desktop\programmer.I		
0%		100% 20%	
Bytes Left Sending File	7724		
	Cancel		

#### SREC Load – Blaster

🌉 C	OM1:1	9200	Baud -	pcterm	•	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke	rmit File	<u>R</u> eceiv	/e	Alt	+U
	Kei	rmit File	<u>5</u> end			
	Ke	rmit <u>P</u> ro	gram Lo	oad	Alt	+L
	Ke	rmit Sw	itcher <u>N</u>	letwork l	.oad	
	Bin	iary <u>F</u> as	t Load.		Alt	+F
	Sw	itcher N	letwork	: <u>L</u> oad	Alt	+N
	SR	EC Loa	ad - <u>D</u> ev	/ice	Alt	+R
	SR	EC Loa	ad - <u>B</u> las	ster	Alt	+B
	SR	EC Loa	ad <u>E</u> ver	ì	Alt	+E
	SR	EC Loa	ad <u>O</u> dd.		Alt	+0
	AS	CII File	Send		Alt	+

To load an EPROM file to an EPROM blaster, connect the PC to the blaster through the serial port. Make sure the baud rate in PC Term is set to be the same as the one the blaster is expecting. Get the blaster ready for a file transfer. Selecting **SREC Load** – **Blaster...** opens the standard file dialog prompting the user for the EPROM program file. Once the file is selected, the following dialog is displayed indicating PC Term is loading to the blaster. Alternatively, the key sequence Alt + B will also perform this function.

SREC File Loa File: C:\WIND	d OWS\Desktop\programmer.l		
0%		100%	20%
Bytes Left Sending File	7724		
	Cancel		,

#### SREC Load – Even

들 C	OM1:1	9200	Baud -	pcterm	1	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke	rmit File	<u>R</u> ecei	ve	Alt	+U (
	Ke	rmit File	<u>S</u> end			
	Ke	rmit <u>P</u> ro	gram L	oad	Alt	+L
	Ke	rmit Sw	itcher <u>N</u>	<u>l</u> etwork l	_oad	
	Bin	hary <u>F</u> as	t Load.		Alt	+F
	Sw	itcher I	letwork	< <u>L</u> oad	Alt	+N
	SR	EC Loa	ad - <u>D</u> er	vice	Alt	+R
	SR	EC Loa	ad - <u>B</u> la	ster	Alt	+B
	SR	EC Loa	ad <u>E</u> ver	n	Alt	+E
	SR	EC Loa	ad <u>O</u> dd.		Alt	+0
	<u>A</u> S	CII File	Send		Alt	+

To load an EPROM file to an EPROM blaster, connect the PC to the blaster through the serial port. Make sure the baud rate in PC Term is set to be the same as the one the blaster is expecting. Get the blaster ready for a file transfer. Selecting **SREC Load** – **Even...** opens the standard file dialog prompting the user for the EPROM program file. Once the file is selected, the following dialog is displayed indicating PC Term is loading the even addresses to the blaster. Alternatively, the key sequence Alt + E will also perform this function.

SREC File Loa File: C:\WIND	d OWS\Desktop\programmer.I		
0%		100% 20%	
Bytes Left Sending File	7724		
	Cancel		

## SREC Load – Odd

🌉 C	OM1:1	9200	Baud -	pcterm	1	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke	rmit File	<u>R</u> eceiv	/e	Alt	+U [
	Ke	rmit File	<u>S</u> end			
	Ke	rmit <u>P</u> ro	gram L	oad	Alt	+L
	Ke	rmit Sw	itcher <u>N</u>	letwork l	.oad	
	Bin	iary <u>F</u> as	t Load.		Alt	+F
	Switcher Network Load				Alt	+N
	SR	EC Loa	ad - <u>D</u> er	vice	Alt	+R
	SR	EC Loa	ad - <u>B</u> la	ster	Alt	+B
	SR	EC Loa	ad <u>E</u> ver	ì	Alt	+E
	SR	EC Loa	ad <u>O</u> dd.		Alt	+0
	∆S	CII File	Send		Alt	+

To load an EPROM file to an EPROM blaster, connect the PC to the blaster through the serial port. Make sure the baud rate in PC Term is set to be the same as the one the blaster is expecting. Get the blaster ready for a file transfer. Selecting **SREC Load** – **Odd...** opens the standard file dialog prompting the user for the EPROM program file. Once the file is selected, the following dialog is displayed indicating PC Term is loading the odd addresses to the blaster. Alternatively, the key sequence Alt + O will also perform this function.

SREC File Loa File: C:\WIND	d OWS\Desktop\programmer.I	
0%		100% 20%
Bytes Left Sending File	7724	
	Cancel	

#### ASCII File Send

들 C	OM1:1	9200	Baud -	pctern	n in the second s	
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
	Ke Ke	rmit File rmit File	<u>R</u> eceiv Send	/e	Alt	+U
	Ke Ke	rmit <u>P</u> ro rmit Sw	gram L itcher <u>N</u>	oad <u>l</u> etwork l	Alt .oad	+L
	Binary <u>F</u> ast Load Switcher Network <u>L</u> oad				Alt Alt	+F +N
	SREC Load - Device     Alt+R       SREC Load - Blaster     Alt+B       SREC Load Even     Alt+E       SREC Load Qdd     Alt+O				+R +B +E +0	
	<u>A</u> S	CII File	Send		Alt	+

Selecting **ASCII File Send...** from the menu prompts the user with the standard file dialog for the file to send. Once a file is selected, it is sent as an ASCII file out the currently configured port with no formatting. The following dialog window is displayed during the transfer reporting the status of the file transfer. Alternatively, the key sequence Alt + I will also perform this function.

ASCII File Send File: C:\WINDOWS\Desktop\Archiv	/e.txt
0%	100% 48%
Bytes Left 8536 Sending File	
Cancel	

This dialog box provides the user the option of aborting the transaction by clicking the **Cancel** button. If this is done, the dialog box disappears after reporting that the transfer was canceled.

## View

This menu item contains features that manipulate how the data is displayed on the terminal window.

## RCA



This option selects the RCA VP3300 terminal type, removes the check next to **VT-100** in the menu, and places it next to **RCA** in the menu. When this terminal type is selected, PC Term emulates an RCA VP3300 terminal.

## **Escape Sequences RCA Terminal Emulation Character**

PC Term supports RCA VP3300 escape sequence set. In addition, PC Term currently supports the graphics commands used by the UNICO Graphics Terminal or UGT.

In addition to the normal character display mode, the terminal has the ability to create reverse video images. This feature allows the creation of contrasting screen areas, which can be used to highlight and draw attention towards sections of the video display. When reverse video is enabled, it remains in effect until another command is given to turn it off. Reverse Video:

OFF = ESC ESC S 0ON = ESC ESC S 1

Thus, through use of this command sequence it is possible to turn reverse video on for single or multiple character, words, or lines of information.

#### **Cursor Manipulation Commands**

These commands allow the cursor to be controlled and moved around the video screen.

#### Cursor Mode:

OFF = ESC ESC C 0ON = ESC ESC C 1

The cursor mode command sequence allows the cursor to be turned off or turned on. This ability to control the cursor's mode can be used to satisfy user preference and needs in special applications. The default on power up is cursor on and blinking.

#### Backsepace:

ESC D

The backspace command sequence moves the cursor position non-destructively one character to the left. If the cursor is backspaced past the first location on a line, it will be placed in the last position of the previous line.

#### Forespace:

ESC C

The forespace command sequence causes the cursor to be moved one position to the right non-destructively. If the cursor is forespaced past the last location on a line, it will be placed on the first position of the next line.

#### UpLine:

ESC A

The upline command sequence causes the cursor to move one line upward nondestructively. If the cursor position is on the top line, this command will cause the cursor to wrap-around to the bottom line.

#### DownLine:

ESC B, CTRL+J

The downline command sequence causes the cursor to move down one line nondestructively. When the cursor reaches the bottom line, this command causes the video screen to scroll upward one line leaving the cursor in the same position on the new line created.

#### Carriage Return:

CTRL+M <RETURN>

The carriage return command sequence causes the cursor to be returned non-destructively to the first position of the current line.

#### Horizontal Tab:

CTRL+I

The horizontal tab command sequence causes the cursor to move non-destructively to the next TAB position.

Home Cursor:

#### ESC H

The home cursor command sequence moves the cursor non-destructively HOME (the first location on the top line). The screen will not be cleared.

#### Address Cursor:

ESC Y cx cy

When using cursor addressing the video screen is organized as a grid of locations. The HOME position at the upper left-hand corner of the display is defined as the origin, that is, the (0,0) location. The cx and cy parameters represents the two characters that are used to pass the row and column locations to the terminal, i.e. (cx, cy). These characters range from the ASCII code for 'SPACE' to '{'. The following table is <u>not</u> an ASCII character chart.

Decimal	ASCII	Decimal	ASCII	Decimal	ASCII
Screen	Character	Screen	Character	Screen	Character
Offset	to Use	Offset	to Use	Offset	to Use
Desired		Desired		Desired	
0	SPACE	31	 ?	62	^
1	!	32	a.	63	
2	"	33	Ă	64	<u>,</u>
3	#	34	В	65	а
4	\$	35	С	66	b
5	%	36	D	67	с
6	&	37	Е	68	d
7	'	38	F	69	e
8	(	39	G	70	f
9	)	40	Н	71	g
10	*	41	Ι	72	ĥ
11	+	42	J	73	i
12	,	43	Κ	74	j
13	-	44	L	75	k
14		45	Μ	76	1
15	/	46	Ν	77	m
16	0	47	0	78	n
17	1	48	Р	79	0
18	2	49	Q		
19	3	50	R		
20	4	51	S		
21	5	52	Т		
22	6	53	U		
23	7	54	V		
24	8	55	W		
25	9	56	Х		

#### ASCII Character to Decimal Screen Offsets Table

26	:	57	Y
27	•	58	Ζ
28	<	59	[
29	=	60	Ň
30	>	61	]

Clear Entire Screen:

ESC j, CNTL+L

The clear entire screen command sequence will cause the terminal to fill the video screen with space characters and HOME the cursor to the first position on the top line.

Clear to End of Screen:

ESC J

The clear to end of screen command sequence causes the terminal to fill the video screen from the current cursor position to the end of the screen with space characters. The cursor position is left unchanged.

Clear to End of Line: ESC K

When the clear to end of line command sequence is executed, the current line is filled with space characters from the cursor to the end of that line. The cursor position remains the same.

#### **RCA Color and Graphics Commands**

Background Color: ESC ESC B h

Foreground Color: ESC ESC F h

These command sequences allow the background and foreground colors of the display to be defined. The h parameter indicates that an ASCII hex character is required for valid color recognition. There are sixteen different background colors that can be combined with sixteen different foreground colors (see Color Table below) to provide various color combinations.

Char	Color	Char	Color
			-
0	Black	8	Grey
1	Lt. Green	9	Green
2	Lt. Blue	А	Blue
3	Lt. Aqua	В	Aqua
4	Lt. Red	С	Red
5	Yellow	D	Brown
6	Purple	E	Purple

7 White F Lt. Grey

Line Color:

ESC ESC L h c

The line color command sequence allows the color of previously displayed characters to be redefined without effecting the current foreground color selection. The command uses h as the desired color code and c as the ASCII character equivalent for the run length number of locations on a line, from the cursor to change. Run length encoding is an efficient way to indicate the number of characters, or locations, to be included in the operation. The maximum valid run length code for the UNICO Graphics Terminal is the number of character locations on a line. Any value larger than the line length is interpreted as meaning to the end of the line.

#### **RCA Pixel Graphics Commands**

These commands allow pixel addressed graphics to be draw on the screen. These commands should only be used with non-scrolling displays. The pixel coordinate system used has 0,0 located in the upper left corner of the screen and 639,-431 for the HR module or 639,-215 for the LR module located in the lower right of the screen. Note that x coordinates increase as you move right on the screen, y coordinates increase as you move up the screen.

Box:

ESC ESC UBx1,y1,x2,y2<CR>

The box command sequence draws a filled rectangle on the screen with one corner at x1, y1 and the opposite corner at x2, y2. The box is drawn in the current foreground color. Example: ESC ESC UB100,-100,200,-150<CR>

Rectangle:

ESC ESC URx1,y1,x2,y2<CR>

The rectangle command sequence draws a rectangle on the screen with one corner at  $x_1$ ,  $y_1$  and the opposite corner at  $x_2$ ,  $y_2$ . The rectangle is drawn in the current foreground color.

Example: ESC ESC UR100,-100,200,-150<CR>

Circle:

ESC ESC UCx,y,r<CR>

The circle command sequence draws a circle on the screen with the center at x, y and a radius of r. This circle is drawn in the current foreground color. Example: ESC ESC UC100,-100,30<CR>

Line:

ESC ESC ULx1,y1,x2,y2<CR>

The line command sequence draws a line on the screen between the points x1, y1 and x2, y2. The line is drawn in the current foreground color. Example: ESC ESC UL100,-100,200,-150<CR> Dot:

ESC ESC UDx,y<CR> The dot command sequence draws a dot on the screen at x, y. This dot is drawn in the current foreground color. Example: ESC ESC UD100,-100<CR>

Text with Font Specified:

ESC ESC UTf,x,y,zx,zy,str<CR>

The text with font specified command draws the string str in the font f at the coordinates x, y with the zoom factors zx, zy. The zoom factors determine how large the characters will be when drawn. A zoom factor of 0 gives characters at times 1 (normal size). A zoom factor of 1 gives characters at times 2 (double size). Zoom factors of 2,3,4,...,15 give characters at times 3,4,5, ...,16. The available fonts are:

f = 0	Monaco8
f = 1	Monaco12
f = 2	Chicago12
f = 3	Geneva12
f = 4	Times12

Example: ESC ESC UT3,100,-100,0,0,Hello World!<CR>

#### **RCA Command Summary**

#### OPERATING MODES

Reverse Video	-OFF -ON	CTRL+N CTRL+O	ESC ESC S 0 ESC ESC S 1
CURSOR MANIF	PULATION		
Cursor Backspace Forespace UpLine DownLine Carriage Return Tab Home Address Cursor SCREEN MAINT	-OFF -ON	CTRL+H CTRL+U CTRL+K CTRL+J <lf> CTRL+J <cr> CTRL+I CTRL+Z</cr></lf>	ESC ESC C 0 ESC ESC C 1 ESC D ESC C ESC A ESC B  ESC H ESC H ESC Y cc
Clear Entire Scree	n	CTRL+L	ESC j

Clear to End of Screen Clear to End of Line	ESC J ESC K
COLOR and GRAPHICS	
Background Color Foreground Color Line Color	ESC ESC B ESC ESC F ESC ESC L
PIXEL GRAPHICS	
Box Rectangle Circle Line Dot Text	ESC ESC UBx1,y1,x2,y2 <cr> ESC ESC URx1,y1,x2,y2<cr> ESC ESC UCx,y,r<cr> ESC ESC ULx1,y1,x2,y2<cr> ESC ESC UDx,y<cr> ESC ESC UDx,y<cr> ESC ESC UTf,x,y,zx,zy,str<cr></cr></cr></cr></cr></cr></cr></cr>

h h h c

Where, c = ASCII Character d = Decimal Digit (0-9) f = Decimal Digit (0-4) h = Hex Digit (0-9, A-F) x,y,x1,y1,x2,y2,xc,yc,xe,ye,r,dx = Decimal Number (-431 - 640) a,b = Decimal Number (1 - 255) str = String of characters



This option selects the VT-100 terminal type, removes the check next to **RCA** in the menu, and places it next to **VT-100** in the menu. When this terminal type is selected, PC Term emulates a VT-100 terminal.

## VT100 Terminal Emulation Character Escape Sequences

PC Term currently supports the following VT-100 terminal emulation escape sequences.

Reverse Video:

 $\begin{array}{ll} OFF & = ESC \left[ \begin{array}{c} 0 \end{array} \right] m \\ ON & = ESC \left[ \begin{array}{c} 7 \end{array} \right] m \end{array}$ 

In addition to the normal character display mode, the terminal has the ability to create reverse video images.

#### **Cursor Manipulation Commands**

The following commands allow the cursor to be controlled and moved around the video screen.

Backspace:

ESC D or ESC [ 1 D

The backspace command sequence moves the cursor position non-destructively one character to the left. If the cursor is backspaced past the first location on a line, it will be placed in the last position of the previous line.

Multiple Backspace:

```
VT-100
```

#### ESC [ n D

The multiple backspace command sequence causes the cursor to move one space backward non-destructively n times.

#### Forespace:

ESC C or ESC [ 1 C

The forespace command sequence causes the cursor to be moved one position to the right non-destructively. If the cursor is forespaced past the last location on a line, it will be placed on the first position of the next line.

Multiple Forespace:

ESC [ n C

The multiple forespace command sequence causes the cursor to move one space forward, non-destructively, n times.

#### UpLine:

ESC A or ESC I or ESC [1 A

The upline command sequence causes the cursor to move one line upward nondestructively. If the cursor position is on the top line, this command will cause the cursor to wrap-around to the bottom line.

Multiple UpLines:

ESC [ n A

The multiple upline command sequence moves the cursor upward one line, nondestructively, n times.

DownLine:

ESC B or CTRL+J or ESC [ 1 B

The downline command sequence moves the cursor down one line non-destructively. When the cursor reaches the bottom line, the video screen scrolls upward one line leaving the cursor in the same position on the new line created.

Multiple DownLines:

ESC [ n B

The multiple downline command sequence causes the cursor to move downward one line, non-destructively, n times.

Carriage Return:

CTRL+M <RETURN>

The carriage return command sequence causes the cursor to be returned non-destructively to the first position of the current line.

Horizontal Tab:

CTRL+I

The horizontal tab command sequence causes the cursor to move non-destructively to the next TAB position.

Home Cursor:

ESC H or ESC [r

The home cursor command sequence moves the cursor HOME (the first location on the top line), non-destructively. The screen will not be cleared.

Clear to End of Screen:

ESC J or ESC [1 J

The clear to end of screen command sequence causes the terminal to fill the video screen from the current cursor position to the end of the screen with space characters. The cursor position is left unchanged.

Multiple Clear to End of Screen:

ESC [ n J

The multiple clear to end of screen command sequence causes the terminal to fill the video screen from the current cursor position to the end of the screen with space characters n times.

Clear to End of Line:

ESC K or ESC [1 K

The clear to end of line command sequence fills the current line from the cursor to the end with space characters. The cursor position remains the same.

Multiple Clear to End of Line:

ESC [ n K

The multiple clear to end of line command sequence causes the terminal to fill the video screen from the current cursor position to the end of the line with space characters n times.

Address Cursor:

ESC [ Pl; Pc f or ESC [ Pl; Pc H

The address cursor command sequence moves the active cursor position to the position specified by the parameters Pl (line) and Pc (column). When using cursor addressing the video screen is organized as a grid of locations. The HOME position at the upper left-hand corner of the display is defined as the origin, that is, the 1,1 location.

Device Attributes:

ESC Z or ESC [ Pn c

A host might send these characters requesting the terminal to respond with its current device attributes settings. This sequence causes the terminal to send back the following character sequence: ESC [? 1; 0 c which means no options set.

#### **Show Invisibles**



This option toggles whether invisible characters are to be displayed to the screen or not. If invisibles are to be displayed, a check is placed next to **Show Invisibles** in the menu bar.

## Small Font



This option selects the application's small font, removes the check next to **Large Font** in the menu, and places it next to **Small Font** in the menu. The screen size is altered to accommodate the new text font.

## Large Font

🌉 C	OM1:1	9200	Baud -	pcterm	1		
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp	
		✓ ⊻	CA T-100				
		Show <u>I</u> nvisibles					
		<u>S</u>	Small Font				
		✓ <u>L</u>	arge For	it			
		✓ C	olor <u>D</u> isa	abled			
		4 Lines x 40 Chars 24 Lines x 40 Chars 8 Lines x 80 Chars 24 Lines y 90 Chars					
		D	isplay <u>F</u> u	unction K	ieys		
		<u>C</u>	ear Scre	een	Del	_	

This option selects the application's large font, removes the check next to **Small Font** in the menu, and places it next to **Large Font** in the menu. The screen size is altered to accommodate the new text font.

## **Color Disabled**



This feature toggles whether or not colors may be displayed in the terminal window. See **RCA Color and Graphics Commands.** 

🜉 COM1:19200 Baud - pcterm								
File Lo	ad 🗌	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp		
		<u>B</u> ( ✓ ⊻1	CA 1-100					
		Show <u>I</u> nvisibles						
		<u>S</u> r	nall Fon	t				
		✓ Large Font						
		Color <u>D</u> isabled						
	- 1	✓ 4 Lines x 40 Chars						
	- 1	24 Lines x 40 Chars						
		8 Lines x 80 Chars						
		24 Lines x 80 Chars						
		Di	splay <u>F</u> u	unction K	leys			
		<u>C</u> l	ear Scre	en	Del			

## 4 Lines x 40 Chars

This option selects the screen size of 4 lines by 40 characters, removes the check from the previous screen size setting in the menu, and places it next to 4 Lines x 40 Chars in the menu. The terminal window is resized to these settings.

## 24 lines x 40 Chars



This option selects the screen size of 24 lines by 40 characters, removes the check from the previous screen size setting in the menu, and places it next to **24 Lines x 40 Chars** in the menu. The terminal window is resized to these settings.

## 8 Lines x 80 Chars



This option selects the screen size of 8 lines by 80 characters, removes the check from the previous screen size setting in the menu, and places it next to 8 Lines x 80 Chars in the menu. The terminal window is resized to these settings.

#### 24 lines x 80 Chars



This option selects the screen size of 24 lines by 80 characters, removes the check from the previous screen size setting in the menu, and places it next to 24 Lines x 80 Chars in the menu. The terminal window is resized to these settings.

## **Display Function Keys**

File Load View Data Setup Protocol H	elp
File Load View Data Setup Protocol H	elp
DCA	
<u>H</u> LA ✓ <u>V</u> T-100	
Show Invisibles	
<u>S</u> mall Font	
✓ Large Font	
Color <u>D</u> isabled	
4 Lines x 40 Chars	
24 Lines x 40 Chars	
8 Lines x 80 Chars	
✓ 24 Lines x 80 Chars	
✓ Display <u>F</u> unction Keys	
<u>C</u> lear Screen Del	

This feature toggles whether or not the Function Keys toolbar (shown below) is displayed. This toolbar is a free-floating toolbar, but may be docked on the top or bottom of the terminal window.

F	Function Keys					×
	F1	F2	F3	F4	F5	F6
	F7	F8	F9	F10	F11	F12

A check is appears next to **Display Function Keys** in the menu when the toolbar is displayed. The toolbar can be closed be either selecting **Display Function Keys** in the menu or by clicking the **X** (Close) button on the toolbar.

The captions and function strings for each of the twelve buttons on this toolbar may be edited with the **Define Function Keys...** option under **Setup** in the main menu.

## **Clear Screen**



This option clears the entire terminal window of any data. The keyboard **Delete** key also performs this function.

## Archive Text



This feature allows the user to capture the incoming characters to a text file. The standard file dialog appears allowing the user to name the archive file. This can be either the default name (Archive.txt) or any other name. After saving this file, a check mark will appear next to **Archive Text...** in the menu to show that an archive is in process. All incoming characters after the selection will then be written to this text file. Clicking on **Archive Text...** from the menu again turns off archiving and closes the file. The check mark will disappear and the file will be saved on the disk. Quitting PC Term also closes this text file.

## Simple Plot



PC Term also supports a graphing function that plots the contents of the file obtained during data upload called Simple Plot. Upon selecting **Simple Plot...**in the menu, the user is requested to select a file containing the data sample that was previously uploaded from a UNICO Series 4000 device. Once the appropriate file is selected, a new window appears containing a graph for each channel contained in the sample. The following is an example of a data sample.

#### Data



Each channel is displayed with a different color. The time and data recorded at the time of sampling are also printed at the top of the graph as an identifying feature. This time stamp is stored within the sample file for archiving purposes.

Simple Plot supports the ability to scale channels individually. This is particularly useful when two functions overlap to the extent that it is difficult to distinguish between them. The scale of a channel can be edited by selecting the appropriate button to the right of the channel legend. A dialog window, like the one below, will appear prompting a new scale value.

Change Simple Plot Scale	
Scale <b>1.000</b>	OK Cancel

Selecting the **OK** button will re-scale the Simple Plot graph for that particular channel to the new setting, whereas the **Cancel** button will ignore any changes.

#### Setup

### **Protocol Settings**

🔄 COM1:19200 Baud - pcterm						
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp
				Pro	tocol <u>S</u> ettir	ngs
				Oni <u>Q</u> ui	ine <u>D</u> evice ck Baud	\$
				<u>K</u> ermit Settings		s
				Def	ine <u>F</u> unctio	on Key Strings
				Allo	w Serial Po	ort Release

This feature displays either the **Serial Port Setup** dialog window or the **ControlNet Setup** dialog window depending on which is selected under the **Protocol** item of the main menu bar. Once the selections are complete, pressing the **OK** button will configure and save the current settings and alter the title bar of the application if there were changes. The **Cancel** button will disregard any changes and close the dialog.

#### **Serial Port Setup**

Serial Port Setup		×
Settings		
Port: COM1 💌	Parity: None	Cancel
Baud: 19200 💌	Data Bits: 8	
I⊄ Xon/Xoff	Stop Bits: 1	

The dialog above can be used to configure a serial port for communication. The serial port can be selected from the available ports. This application supports up to 32 serial ports (COM1...COM32), but the computer must have the hardware for a particular port to be an option in this dialog. The current serial communications port is always displayed in the title bar of the application when serial communications are selected under the Protocol menu item. The COM port may also be changed with the quick-key sequence <Ctrl>+(COM port #). I.e. <Ctrl>+1 configures PCTerm for COM1. This feature is only available for COM1 through COM9.

The standard baud rates of 1200, 1800, 2400, 3600, 4800, 7200, 9600, 19200, 28800, 38400, 57600, 115200 and 230400 may be selected from this screen, by the **Quick Baud** menu item under **Setup**, or by the following "quick" key sequences.

Alt + 0	1200 baud
$\Delta lt + 1$	1200 baud
	2400  h = 1
Alt + 2	2400 baud
Alt + 3	3600 baud
Alt + 4	4800 baud
Alt + 5	7200 baud
Alt + 6	9600 baud
Alt + 7	19200 baud
Alt + 8	28800 baud
Alt + 9	57600 baud
Alt + Shift + 0	38400 baud
Alt + Shift + 1	115200 baud
Alt + Shift + 2	230400 baud

The currently configured baud rate is always displayed in the title bar of the application when serial communications are selected under the **Protocol** menu item.

Software handshaking is controlled by the **Xon/Xoff** checkbox. By checking this box, output to another device will be halted if the  $^{S}$  (Ctrl + S) character (value: 0x19) is received, while sending this character to another device will halt any input from the other device. Communication will resume only after a  $^{Q}$  (Ctrl + Q) character (value: 0x17) is received by the device halting its output. Deselecting this checkbox ignores the above mentioned control characters during communication.

The parity can be set to Odd, Even, or No parity. The number of data bits in each character can be set to 5, 6, 7, or 8 bits. The number of stop bits can be set to 1, 1.5, or 2.

### **ControlNet Setup**

ControlNet Setup		×
Controller Settings	PC Settings	
Class: 100	Link Addr: 65	Cancel
Instance: 2	Instance: 1	
MAC ID: 45	MAC ID: 10	
	Time-out: 3 (Seconds)	Online Devices
	KTC Port: O A	
	AB_KTC-1	
	AB_KTC-1	
	AB_PCIC-1	

This dialog window is split into two sections, Controller Settings and PC Settings.

The **Controller Settings** section displays the information regarding the desired UNICO device to communicate with. The **MAC ID** is the device number of the desired node in the ControlNet<sup>™</sup> network to communicate with. It is the only editable value in this section and may be set to any device number within the range of 1 to 99.

The **PC Settings** section contains information regarding ControlNet<sup>TM</sup> communication using a KTC interface card in the PC. The **Link Addr** value is an identifier that ControlNet<sup>TM</sup> uses to determine which application on the PC it is communicating with. This value must be different from the link address in other applications such as ISaGRAF<sup>TM</sup> communicating via ControlNet<sup>TM</sup>. Communication problems will occur if they are the same.

The MAC ID in the PC section is similar to that in the controller section. It signifies the device number of the PC on the ControlNet<sup>TM</sup> network. It also must be a value within the range of 1 to 99.

The ControlNet<sup>™</sup> time-out can be set to any value within the range of 1 to 99 seconds.

The **KTC Port** radio buttons determine which of the two ports (A or B) on the KTC interface card the specified controller is connected to.

The ControlNet driver name that is used to connect PCTerm to RSLinx may be chosen from the list of driver names or manually entered if the desired driver does not exist.

Currently, PCTerm supports Allen Bradley 1784-KTC(X), 1784-PCC, and 1784-PCIC ControlNet interface cards.

The **Online Devices** button opens a dialog window that lists the devices that were online the last time a network search was performed. This window is also displayed by the **Online Devices** option under the **Setup** main menu item. A screen capture of this window can be seen in the **Online Devices** section.

## **Online Devices**

🎂 C	ontroll	let:No	de 45	- poter	m			
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp		
				Proto	icol <u>S</u> etting	S		
				Onlin	e <u>D</u> evices.		٦	
				Quick Baud 🔹 🕨				
				<u>K</u> erm	it Settings			
				Defin	e <u>F</u> unction	Key Strings		
				Allow Serial Port Release				

This option displays the following dialog window. This dialog displays a listing of UNICO devices that have been found in the connected ControlNet<sup>™</sup> network and the date and time they were found.

Unico On	line Devices		×
Last	Find: Tue May 04 (	09:05:18 1999	OK
Select	Device		Consel
Node	Online Name	Description	
45	S4000-CNI		
46	S4000-CNI		End Devices 1
47	S4000-CNI		Find Devices
			Edit Node
Searc	ch Timeout: 500	( milliseconds )	

Selecting the **Find Devices** button performs a network search of all UNICO devices currently in the network. This operation may take up to several minutes depending on the search time-out specified at the bottom of the dialog. The search time-out is the time PC Term will wait for a response from a device ping during a network search. Upon completion of the search, a confirmation dialog will appear. If there was any changes in

the network, new devices will be found in the list box or previous devices will be absent from it. The date and time of the last network search is displayed at the top of the dialog.

The list box may contain as many devices as are in the network. A device may be selected by double-clicking it in the list box with the mouse or by highlighting it with a single-click and selecting the **OK** button.

By highlighting a device in the list box with a single mouse click, the description of the device may be edited by clicking the **Edit Node** button. If a device is not selected in the list box, nothing will occur. If a device is selected, however, the following window is appears displaying the properties of the device.

Edit Node	×
Properties	ОК
Node: 45	Cancel
Online Name: \$4000-CNI	
Description:	

## **Quick Baud**

🚇 C	0M1:5	7600 B	aud -	octerm		
File	Load	Vie <u>w</u>	D <u>a</u> ta	Setup Protocol <u>H</u> elp		
				Protocol <u>S</u> ettings		
				Online <u>D</u> evices		
				Quick Baud 🕨 🕨	1200	Alt+0
				Kermit Settings	1800	Alt+1
				Kernic Secongs	2400	Alt+2
				Define Eunction Key Strings	3600	Alt+3
				Allow Serial Port Peleace	4800	Alt+4
				Allow Serial Port Release	7200	Alt+5
					9600	Alt+6
					19200	Alt+7
L					28800	Alt+8
L					38400	Alt+Shift+0
					✓ 57600	Alt+9
					115200	Alt+Shift+1
					230400	Alt+Shift+2

The **Quick Baud** feature displays a pop-up listing of the available baud rates and their "quick" key sequences as discussed in the **Serial Port Setup** section. Clicking one of these baud rates will place a check next to that baud rate in the list, configure the current

serial port for this setting and display the baud rate in the title bar of the application if serial communications are selected under the **Protocol** menu item.

## **Kermit Settings**

🚇 C	🜉 COM1:19200 Baud - pcterm									
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp				
				Pro	tocol <u>S</u> ettir	ngs				
				Online <u>D</u> evices Quick Baud ►						
				Kermit Settings						
				Define Eunction Key Strings						
				Allow Serial Port Release						

The **Kermit Settings...** option displays the following dialog window to allow configuration of the protocol. Selecting the **OK** button saves and configures the settings. Any changes are disregarded by selecting the **Cancel** button.

Kermit File Transfer Setup	×
Send Timeout: 7000 (msec) Packet Size: 1024 (bytes) Retries: 7	Receive Timeout: 7000 (msec) Packet Size: 1024 (bytes)
Error Checking C Checksum 1 C Checksum 2 CRC	Cancel

By default a packet size of 1024 is selected. This corresponds to the maximum packet size permitted by the protocol and has been found to provide the best throughput. It should be noted, however, that not all Kermit transmitters support a maximum packet size of 1024. This should pose no problem due to the internal reconciliation process conducted by the protocol. PC Term, likewise, supports a default packet size of 1024. By default, the time-out is 7000 milliseconds, and there are 7 retries. The default packet size for both send and receive are 1024 bytes. This is currently the maximum packet size and results in the fastest file transfer. The default time-out is 7 seconds and default number of retries is 7. The default error checking method is CRC. Packet size and error checking method is negotiated between the sender and receiver. If the sender requests a packet size of 1024 and the receiver is capable of using this then both will use a packet

size of 1024. If the receiver is not able to use 1024 it will inform the sender what its maximum is and the sender will conform to that. A similar negotiation will occur with the error checking methods.

들 C(	🜉 COM1:19200 Baud - pcterm									
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp				
				Pro	tocol <u>S</u> ettin	ngs				
				Online <u>D</u> evices <u>Q</u> uick Baud •						
				<u>K</u> ermit Settings						
				Define <u>F</u> unction Key Strings						
				Allow Serial Port Release						

## **Define Function Key Strings**

This option displays the following dialog window to associate user defined ASCII strings to the keyboard function keys (F1, F2, ... F12). These strings can be output using the Function Keys toolbar as well as with the keyboard keys. See the **Display Function Keys** section.

Define Fu	Define Function Key Sequence							
F1	F1							
F2	F2							
F3	F3							
F4	F4							
F5	F5		OK					
F6	F6		Cancel					
F7	F7							
F8	F8							
F9	F9							
F10	F10							
F11	F11							
F12	F12							

The function strings are configured with the right column of edit boxes. These strings are output using the currently configured communication protocol (serial, ControlNet<sup>TM</sup>) as if they were typed manually when that key is pressed. The names displayed on the function keys in the Function Key toolbar are configured with the first column of this dialog. The **OK** button saves and configures the buttons, while the **Cancel** button disregards any changes.

## Allow Serial Port Release

🌉 C	COM1:19200 Baud - pcterm									
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp				
				Pro	tocol <u>S</u> ettir	ngs				
				Online <u>D</u> evices Quick Baud						
				Kermit Settings						
				Define Eunction Key Strings						
				✓ Allow Serial Port Release						

This option is a toggle that, when checked, allows PC Term to close and free the serial port when not in the foreground. This allows other applications such as Wonderware<sub>®</sub> to use the same serial port when it is not needed by PC Term. This, however, means that any data intended for PC Term will be lost when it is minimized or in the background. Therefore, caution should be taken especially while downloading or uploading to ensure PC Term remains in the foreground if this option is selected.

## Protocol

## Serial



The **Protocol** menu item lists the available types of communication PC Term supports. This version currently supports standard serial communication as well as ControlNet<sup>™</sup> talk-through to UNICO controllers. The currently selected communication type is displayed with a check and is changed by clicking on the unchecked selection. Multiple instances of PC Term may be opened and configured for different serial ports.

## ControlNet



The **Protocol** menu item lists the available types of communication PC Term supports. This version currently supports standard serial communication as well as ControlNet<sup>TM</sup> talk-through to UNICO controllers. The currently selected communication type is displayed with a check and is changed by clicking on the unchecked selection. Only one instance of PC Term may be configured for ControlNet<sup>TM</sup> talk-through. If an instance of PC Term is launched and another is already configured for ControlNet<sup>TM</sup>, the following warning dialog will appear.

Attention!						
There already is another instance of PCTerm communicating through ControlNet. Only one instance is allowed.						
Would you like to open a serial connection?						
Yes No						

Clicking **Yes** will open a new instance of PC Term configured for serial communication, while clicking **NO** causes the following dialog to appear.



Upon clicking **OK**, the instance of PC Term already configured for ControlNet<sup>TM</sup> talk-through is brought to the foreground.

## Help

## **Help Topics**

🌆 C	🜉 COM1:19200 Baud - pcterm								
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp			
						<u>H</u>	elp Topics		
						A	bout PCTerm		

This option displays the help file containing documentation for PC Term.

## About PC Term

🕎 COM1:19200 Baud - pcterm							
File	Lo <u>a</u> d	Vie <u>w</u>	Da <u>t</u> a	S <u>e</u> tup	Protocol	<u>H</u> elp	
						H	elp Topics
I						A	oout PCTerm

This option displays a dialog box describing the PC Term application including name, version, and software number.

## **Command Line**

Certain communication settings may be configured in PCTerm when command-line parameters are passed to the application. These parameters can be passed to PCTerm through a Windows shortcut. Several shortcuts may be created that point to the same PCTerm executable, but have different command-line parameters that configure PCTerm differently. Thus multiple instances of PCTerm may be opened simultaneously with different settings without manually configuring each instance. The command-line parameters may be modified by right clicking on a shortcut and selecting 'Properties' from the popup menu. The command-line is the 'Target' field under the 'Shortcut' tab in the properties dialog window that is displayed.

Pcterm Properties
General Shortcut
Pcterm ₽ ₩₩₩
Target type: Application
Target location: WinDebug
Iarget: erm.exe" "/ComPort" "COM1" "/BaudRate" "19200"
Start in: "C:\Program Files\PCTerm"
Shortcut <u>k</u> ey: None
Bun: Normal window
<u>F</u> ind Target <u>C</u> hange Icon
OK Cancel <u>Apply</u>

PCTerm currently supports setting the communication protocol, serial communications port, serial baud rate, and ControlNet node through command-line parameters.

Command-line Flag	Command-line Option
/Protocol	Serial
	ControlNet
/ComPort	COM1
	COM2
	COM3
	COM4
	COM5
	COM6
/BaudRate	1200
	1800
	2400
	3600
	4800
	9600
	19200
	28800
	<u>Command-line Flag</u> /Protocol /ComPort /BaudRate

		38400 57600 115200 230400
ControlNet Node	/Node	0-99

Each flag and option must be separated by a space and must be surrounded by quotation marks. For example: "C:\Pcterm.exe" "/ComPort" "COM1" "/BaudRate" "19200" is a valid command-line that configures PCTerm for serial communication on COM1 at 19200 baud. The /Protocol flag is optional. If either the /ComPort or /BaudRate flag are specified, the protocol is set to 'Serial'. Likewise, if the /Node flag is specified, the protocol is set to 'ControlNet'. Any setting, not specified or implied by a command-line flag, is configured with the previously stored registry value.

# Index

## /

/BaudRate	45
/ComPort	45
/Node	46
/Protocol	45

## 1

1784-KTC(X)	
1784-PCC	
1784-PCIC	

## 2

24 lines x 40 Chars	
24 lines x 80 Chars	29

## 4

1	
4 Lines x 40 Chars	

## 8

8	Lines x	80 Chars			29
---	---------	----------	--	--	----

## A

About PC Term	44
Address Cursor	.18, 25
Allow Serial Port Release	42
Alt + 0	36
Alt + 1	36
Alt + 2	
Alt + 3	
Alt + 4	36
Alt + 5	36
Alt + 6	36
Alt + 7	36
Alt + 8	36
Alt + 9	36
Alt + B	11
Alt + E	12
Alt + F	8
Alt + I	14
Alt + L	
Alt + N	9
Alt + O	
Alt + R	10
Alt + S	3
Alt + Shift + 0	36
Alt + Shift + 1	36
Alt + Shift + 2	36
Alt + II	
Archive Text	32
ASCII File Send	

## B

Background Color	
Backsepace	
Backspace	
baud rate	
Binary Fast Load	
Box	20

## С

Carriage Return	
Circle	
Clear Entire Screen	
Clear Screen	
Clear to End of Line	
Clear to End of Screen	
COLOR and GRAPHICS	
Color Disabled	
colors	
Command Line	44
Controller Settings	
ControlNet	3, 38, 43
ControlNet Setup	
Ctrl + Q	
Ctrl + S	
CURSOR MANIPULATION	
Cursor Mode	

## D

Data	
data bits	
Decimal Screen Offsets	
Define Function Key Strings	41
Delete	
Device Attributes	
Display Function Keys	
Dot	
DownLine	17, 24
driver name	

## E

Edit Node	
Exit	

## F

File	
Find Devices	
font	
Foreground Color	
Forespace	17, 24
function keys	
Function Keys	
-	

## H

Help	44
Help Topics	
Home Cursor	
Horizontal Tab	
	· · · · ·

## Ι

## K

Kermit File Receive	4
Kermit File Send	5
Kermit Program Load	6
Kermit Settings	40
Kermit Switcher Network Load	7
КТС	37
KTC Port	

## L

Large Font	
Line	
Line Color	
Link Addr	
Load	4

## М

MAC ID	
Multiple Backspace	23
Multiple Clear to End of Line	25
Multiple Clear to End of Screen	25
Multiple DownLines	24
Multiple Forespace	24
multiple instances	44
Multiple instances	43
Multiple UpLines	24

## 0

Online Devices	
OPERATING MODES	21

#### Р

parity	36
PC Settings	37
PIXEL GRAPHICS	22
Protocol	43

Protocol Settings	35
Q	
Quick Baud	39
R	
RCA RCA VP3300 Rectangle Reverse Video	16 16 20 23
S	
Save Screen As	3 21 43 39 35 44 26 32 26 36 11 10 12 13 36 9 4
Τ	
Text with Font Specified	21 37
U	
UGT17,	16 24
V	
<i>View</i> VT-100	16 23
X	
Xon/Xoff	36