SAM4s ER-280 Series

PC Utility User's Manual



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Contents

Introduction	3
About the ER-280 Series PC Utility	3
Getting Started	5
Setting the ER-285M RS-232C Port	5
Preparing the ER-280 Utility for Communications	8
Installing the Utility	8
Starting the PC Utility	9
Store Settings	10
Upload/Download Programs	11
UpProgram	11
DownProgram	
Edit Programs	13
Procedures	13
Program Edit Screens	
Reports	23
Poll Reports	23
View Reports	
Prepare & Load Bitmap Logos	29
Preparing a Graphic Logo Bitmap for an ER-285M	29
Download a Graphic Logo to an ER-285M	
Printing the Logo Image – ER-285M Settings	
Appendix	33
Cabling Diagrams	33

Introduction

About the ER-280 Series PC Utility

The ER-280 Series PC Utility provides basic PC communication functions for SAM4s ER-285M. This utility was designed primarily as a dealer tool - to save, edit, and download programs.

The ER-280 Series PC Utility includes the following features:

- Multiple Stores
- Save and Load ECR programs
- Convert & Download Logo Bitmaps
- Edit ECR programs
- Poll and View Register Reports
- Remote Modem Communication Capability

Note: The ER-280 Series PC Utility was developed to work best with a screen resolution of at least 1024 x 768 pixels.

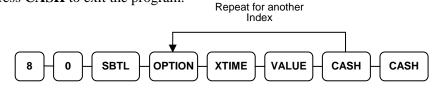
Getting Started

Setting the ER-285M RS-232C Port

At the ER-285M, you must select 'PC' as the device that is attached to one of the RS-232C communications port.

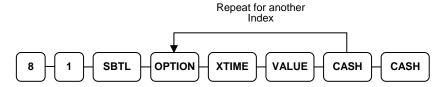
If you are using RS-232C Port #1:

- 1. Turn the control lock to the **S** position.
- 2. Enter **80** and press the **SBTL** key.
- 3. Enter **5** and press the **X/TIME** key. (Refer to the RS-232C option chart that follows.)
- 4. Enter 1 (the value for PC) and press the CASH key.
- 5. Press **CASH** to exit the program.



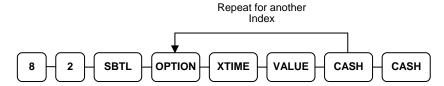
If you are using RS-232C Port #2:

- 1. Turn the control lock to the **S** position.
- 2. Enter **8 1** and press the **SBTL** key.
- 3. Enter **5** and press the **X/TIME** key. (Refer to the RS-232C option chart that follows.)
- 4. Enter **1** (the value for PC) and press the **CASH** key.
- 5. Press **CASH** to exit the program.



If you are using RS-232C Port #3:

- 1. Turn the control lock to the S position.
- 2. Enter **8 2** and press the **SBTL** key.
- 3. Enter $\bf 5$ and press the $\bf X/TIME$ key. (Refer to the RS-232C option chart that follows.)
- 4. Enter 1 (the value for PC) and press the **CASH** key.
- 5. Press **CASH** to exit the program.



RS-232 Option Chart

N1	OPTION Chart	N2	VALUE
1	Baud Rate	0	9600 BPS
		1	1200 BPS
		3	2400 BPS 4800 BPS
		4	19200 BPS
	D ::	0	NONE
2	Parity	1	ODD
		2	EVEN
	D. (P'()	0	8 BITS
3	Data Bits	1	7 BITS
	Ct D't.	0	1 BIT
4	Stop Bits	1	2 BIT
	De in Familie	0	NONE
5	Device Function	1	PC
		2	SCALE
		4	RECEIPT PRINTER
		6	SCANNER
		7	COIN
		8	EFT
		9	POLE
		10	PDC
6	Initial Feeding Line KP	0 - 20	TDC
7	End Feeding Line KP	0 - 20	
8	Initial Feeding Line Slip	0 - 20	
9	Print Line On Guest Check	0 - 50	
		0	NCI
10	Scale Type	1	CAS
44	Drinton Tymo	0	NONE
11	Printer Type	1	SAM4S ELLIX10
		2	SAM4S ELLIX20
		3	SRP-270
		4	SRP-350
		5	CITIZEN3550
		6	CITIZEN810
		7	CITIZEN230
		8	EPSON TMT88-2
		9	EPSON U200
		10	EPSON U295
		11	EPSON U300
		12	EPSON U325
		13	EPSON U375
		14	STAR SP-200
		15	STAR SP-298
		16	STAR SP-300
		17	STAR TSP-200
		0	EPSON
12	Pole Display	()	EPNON

Preparing the ER-280 Utility for Communications

The register must be ready for communications:

- Connect the register directly to the PC with the appropriate cable. See "Cabling Diagrams" on page 33.
- The register power must be on.
- A clerk must be signed on.
- The register cannot be inside of a transaction.
- The key lock can be in any position.

Installing the Utility

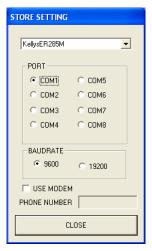
- 1. From Windows Explorer, locate the file: SETUP280.exe. Double click the file to open the installation dialog box.
- 2. Follow the instructions on the screen to complete the installation.

Starting the PC Utility

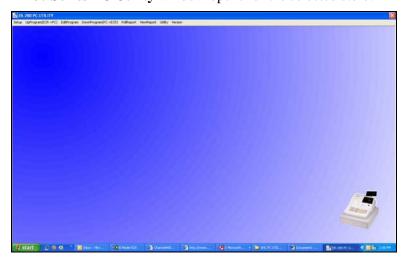
1. Choose **Start, Programs**, **SHC PC UTILITY** and then **280pc**. When starting the utility for the first time, the ADD STORE dialog box displays.



2. Enter the store name and click **OK**. The STORE SETTING dialog displays. *If you have already set up at least one store, the STORE SETTING dialog box display upon start-up.*



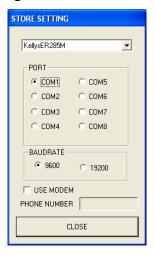
3. Select the store you wish to open, select the PORT (COM1-COM8), select the BAUDRATE (9600 or 19200) and click the **Close** button. The **ER-280 Series PC Utility** window opens for the selected store.



Store Settings

There is no limit to the number of stores. When you start the utility for the first time, enter the store name and select the PC port and baud rate.

The Store Setting Dialog Box



Selecting a Store

- Select the working store when you start the utility.
- ◆ To change the working store after the utility has been started, choose **Setup Store** from the **Setup** menu and select a different store from the drop-down list box.

Adding a Store

♦ Choose **Add Store** from the **Setup** menu. At the **Add Store** dialog, enter the store name and click **OK**. At the **Store Setting** dialog, select the PC port, baud rate and click the **Close** button.

Removing a Store

♦ Choose **Remove Store** from the **Setup** menu. At the **Remove Store** dialog, select the store name to remove and click **OK**.

Using a Modem

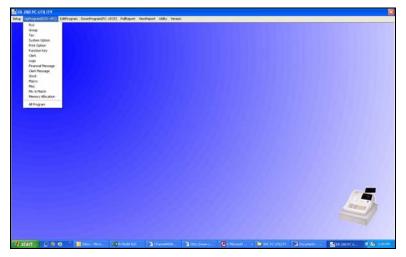
◆ Choose **Use Modem c**heck box and enter the phone number of the store in the **Phone Number** field.

Upload/Download Programs

UpProgram

You must upload a program before program edit functions are allowed. If you wish to programming at the PC, first upload all programs from a RAM-cleared ECR.

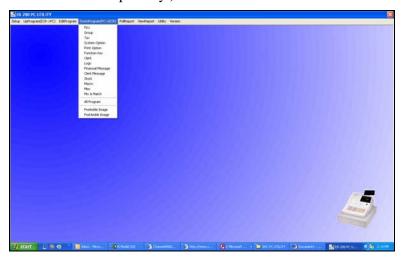
◆ Select the program segment you wish to upload from the **UpProgram** menu, or select **All Program** to upload the entire register program



DownProgram

Downloading a program will overwrite the existing register program.

◆ Select the program segment you wish to download from the **DownProgram** menu, or select **All Program** to download the entire register program (not including PreAmble and PostAmble images, that are downloaded separately.)



Edit Programs

Procedures

With the exception of memory allocation (which can be viewed, but not changed), all register programs can be edited with the PC Utility. You will find options neatly organized on dialog boxes, making register option programming on the PC Utility more efficient than programming options at the register.

NOTE: You must upload a program before program edit functions are allowed.

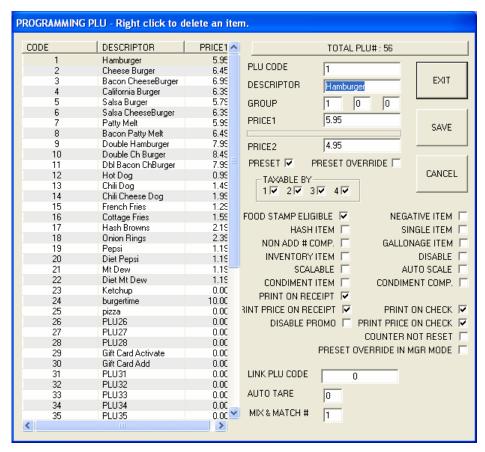
- 1. To edit a program, choose the appropriate program from the **EditProgram** menu. An example of each program dialog box is shown in this chapter.
- 2. After edits, click **Save** to exit and save changes, or click **Cancel** to exit without saving changes.

Tips

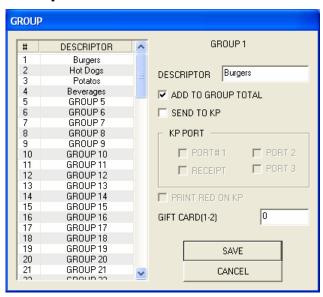
- Each Store's data, including both uploaded program files and polled report files, is located in a separate folder under the ER-280PC folder.
- If you are building a new register program based upon an existing store, you can copy an existing store's program files to a new store folder. It is often more efficient to modify an existing program than to start over with a new one.
- If you are building a large PLU file with identical (or similar) options for each PLU, you may find the from/to PLU programming at the register useful. For example, you can first program the identical options for a range of PLUs at the register. Then upload the PLU program with the utility. Use the utility to program descriptors, prices and make adjustments to each PLU individually. Finally, you can download the completed program to the register.
- If you have questions regarding the meaning of ECR features, refer the appropriate *ER-285M Program and Operation* manual for an explanation of your program options.

Program Edit Screens

PLU

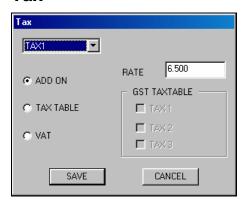


Groups

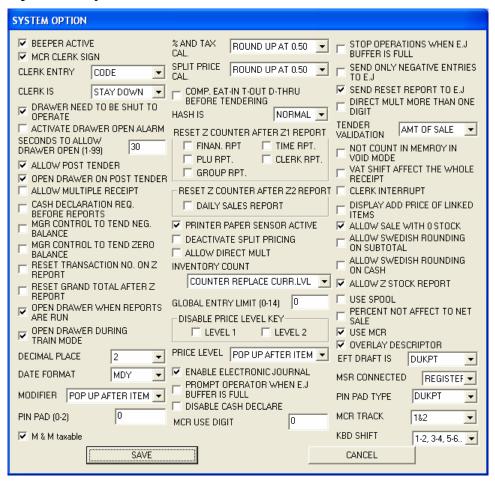


14 • Edit Programs ER-280 Series PC Utility

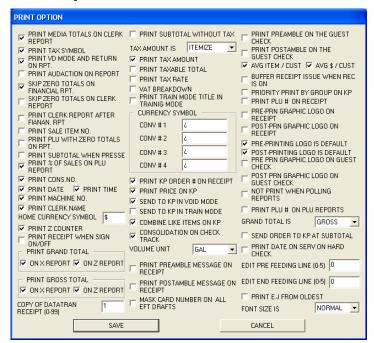
Tax



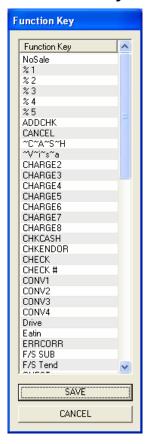
System Option

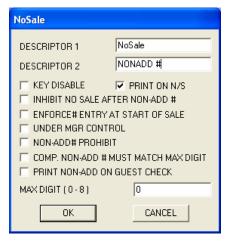


Print Option



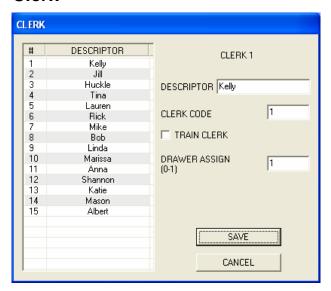
Function Key



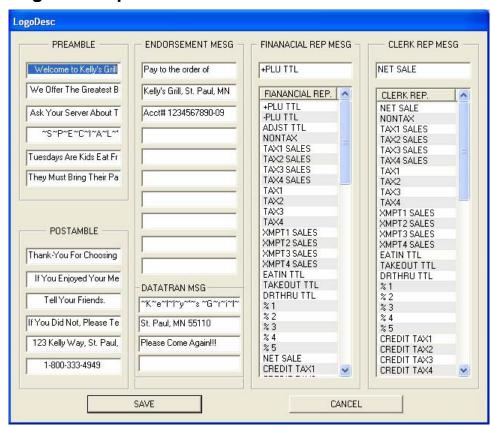


16 • Edit Programs ER-280 Series PC Utility

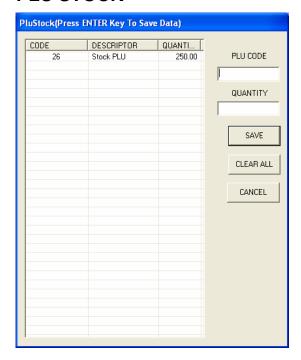
Clerk



Logo/Descriptors



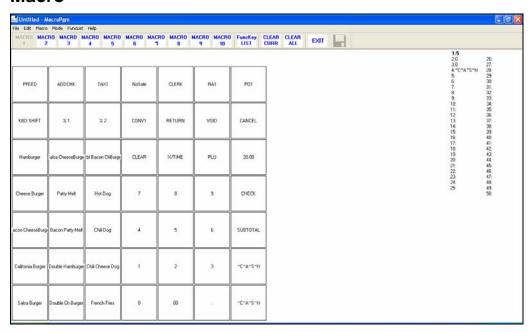
PLU STOCK



NLU

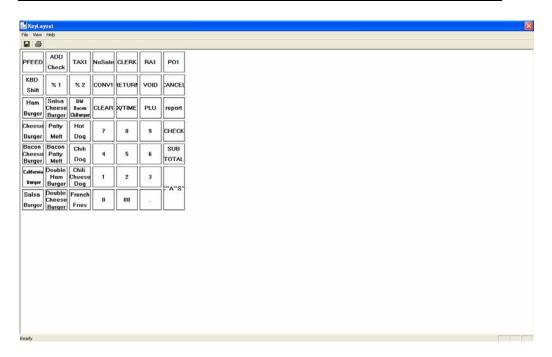


Macro

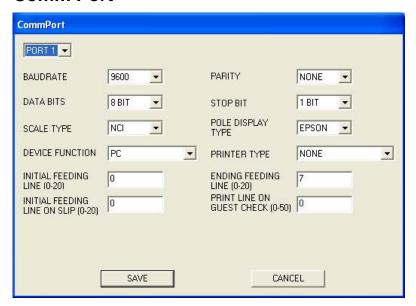


Key Layout

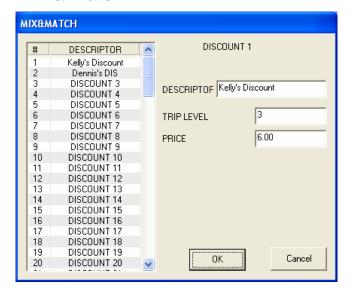
Note: To see the entire keyboard on the screen, the screen resolution must be set to 1024×768 pixels.



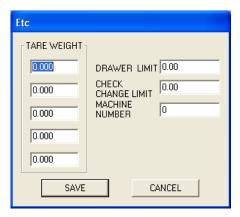
Comm Port



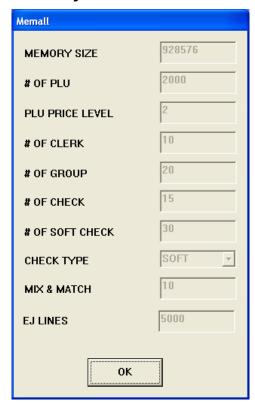
Mix & Match



Etc. – Tare/Drawer Limit/Change Limit/Machine Number



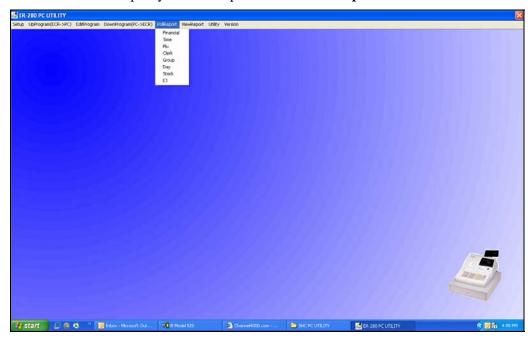
Memory Allocation



Reports

Poll Reports

• Select the report you wish to poll from the **PollReport** menu.



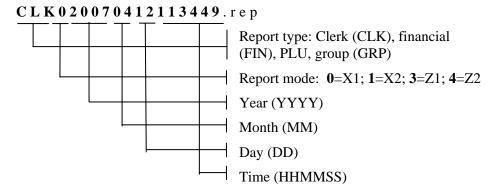
Report File Conventions

Polled reports are stored in a folder named with the current date, located in a folder under the store name. For example:

C:\ER-280PC\Storename\041207

Where 041207 is the date the reports were polled, April 12, 2007.

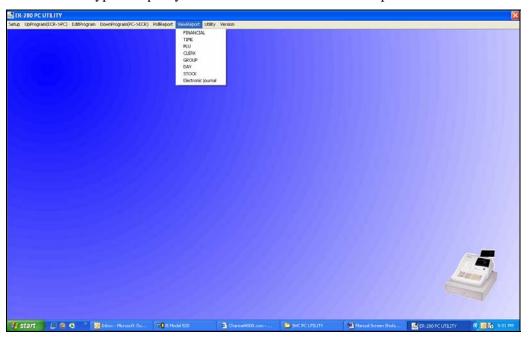
Reports listed in this folder are named using the following convention:



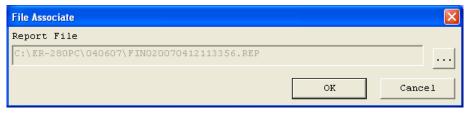
View Reports

SAM4s ER-280 series reports are saved in .RPT format. These files are not ASCII and cannot be directly read by a report editor. However, with this utility, you can view the report data, export it to Microsoft Excel, and/or export it to a text file.

1. Select the type of report you wish to view from the ViewReport menu.



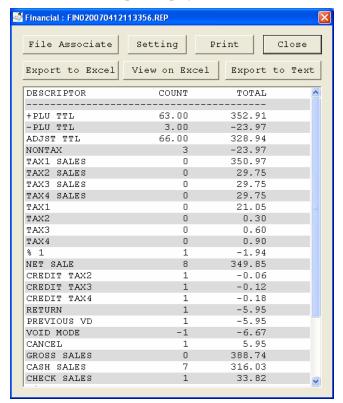
2. The File Associate dialog displays. Click the Browse (...)button to locate the report you wish to view.



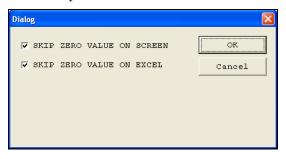
3. Select the report you wish to view. Note that report you select must match the type of report you selected from the menu. For example, if you selected PLU from the ViewReport menu, you must select a report file that begins with the text "PLU ..."; if you selected FINANCIAL from the ViewReport menu, you must select a report file that begins with the text "FIN..."



4. Click **Open**. The selected report displays.



5. Choose **Setting** to select zero skip options. Click **OK** to close the dialog and return to the financial report window.



6. From the report window, choose:

Print: to print the file at your printer

Export to Excel: to save the report in text (.xls) format

View on Excel: to open Excel and view the file

Export to Text: to save the report in Excel (.txt) format

File Associate: to select a new financial report

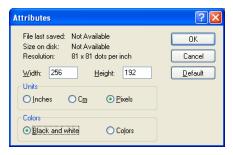
Close: to exit

Prepare & Load Bitmap Logos

Preparing a Graphic Logo Bitmap for an ER-285M

The image must be black/white, 256 x 192 pixels, and 10 Kbytes or less in size.

- 1. Open MS Paint.
- 2. Open the image file you wish to use.
- 3. Choose **Attributes** from the **Image** menu. The **Attributes** dialog box displays.



- 4. The image dimensions must be no larger than 256 pixels wide by 192 pixels high. If the image size in pixels is greater than the maximum, you must resize your image.
 - a. Click **OK** to exit the Attributes dialog.
 - b. Select your image. (Choose **Select All** from the **Edit** menu.)
 - c. Using the handles of the selected image, resize the image. Keep the image in the upper left corner of the screen.
 - d. Choose Attributes from the Image menu. The Attributes dialog box displays again. Enter 256 in the Width field; enter 192 in the Height field; select Pixels as the unit. Click OK to exit the dialog box.
 - e. Your image will be cropped to the 256×192 pixel size. If you cropped part of the image you wish to keep, you can undo (Ctrl + Z)

- and try again. You may have to experiment a bit to resize the image inside the 256 x 192 pixel limit.
- 5. After the image is sized, select **Black and white** in the **Attributes** dialog.
- 6. Save your image as type "Monochrome Bitmap (*.bmp,*.dib)" and confirm that the size is 10k or less. If you resized your original image, you may wish to rename when you save, so that you preserve a copy of the original image.

Download a Graphic Logo to an ER-285M

- 1. Install the ER-280 PC Utility on your PC.
- 2. At the ER-285M, set the RS-232C option address #5 to a value of 1 (PC).

```
(S position; 80 SBTL; 5 X/TIME; 1 CASH; CASH, or S position; 81 SBTL; 5 X/TIME; 1 CASH; CASH, or S position; 82 SBTL; 5 X/TIME; 1 CASH; CASH)
```

- 3. Return key lock to **REG** and sign on a clerk.
- 4. Connect the PC to the ER-285M using one of the following cables:

```
CRS Part # 522035 (Register DB-9M to PC DB-9F)
CRS Part # 522038 (Register DB-9M to PC DB-25F)
CRS Part # 522036 (For port #3 Register RJ45 to PC DB-9F)
```

- 5. At your PC, start the ER-280 PC Utility. (Select **Start**, **Programs**, **SHC PC UTILITY**, **ER-280 PC UTILITY**.) The **Store Setting** dialog box displays.
- 6. If you are starting the ER-280 PC Utility for the first time, you must define a store name, or if a store is already defined, you can select the store from the drop down list. After the store is defined or selected, click **Close**. The PC Utility program starts.
- 7. Move the .bmp logos you wish to use into the store directory (i.e. C:/ER-280PC/storename.)
- 8. At the PC Utility, choose **Convert Logo Image** from the **Utility** menu. The Bmp dialog box displays.
- 9. Click **FILE OPEN**. Select the bitmap image you wish to use from the **Open** dialog and click the **Open** command button.
- 10. Click the **SAVE AS PRE IMG** or **SAVE AS POST IMG** button.



- 11. When the image is selected, click **OK**. Verify that the message "Save As UserPre.Img" or "Save As UserPost.Img" displays. If the file is too large, and cannot be loaded, the message "File Size Error" display.
- 12. Choose **PreAmble Image** or **PostAmble Image** from the **DownProgram** menu.
- 13. The screen will track the progress of the download. When complete, the **COMPLETED** message will display, click **OK**.

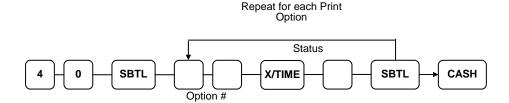
Printing the Logo Image – ER-285M Settings

Two addresses in Print Option Programming affect graphic logo printing:

Option #28 – Add the value of 1 to address 28 if you wish to print the pre graphic logo on the receipt. Add the value of 2 to address 28 if you wish to print the post graphic logo on the receipt.

Option #30 – Add the value of 1 to address 30 if you wish to print your custom bitmap instead of the default bitmap "Thank You – Your Receipt".

Print Option Flowchart (P Key Lock Position)



Appendix

Cabling Diagrams

You can configure cables yourself with the diagram provided here, or you can order the appropriate cables from CRS Parts at 1-800-333-4949.

Direct Connection

Part # 522035

1 0.1 0 1 0 2 2 0 0 0	
Sam4s DB-9M	PC DB-9F
DCD1	1DCD
RXD2	2RXD
TXD3	3TXD
DTR4	4DTR
GND5	5GND
DSR6	6DSR
RTS7	7RTS
CTS8	8CTS
VCC9	9RI
	· · · · · · · · · · · · · · · · · · ·

Part # 522038

Sam4s DB-9M	PC DB-25F
DCD1	()—— 1ChGND
RXD2	2TXD
TXD3	3RXD
DTR4	4RTS
GND5	5CTS
DSR6	6DSR
RTS7	7GND
CTS8 /	8DCD
VCC9	20DTR

Part # 522032

SAM4s	PC
Modular RJ-45	DB-9F
NC1	1DCD
DSR2	2RXD
TXD3	3TXD
RXD4	4DTR
RTS5	5GND
CTS6	6DSR
GND7	7RTS
DTR8	8CTS
	9RI.

ER-280 Series PC Utility Appendix • 33

Modem Communication

Use P/N 250057 for PC to Modem and Modem to ECR connections. The recommended US Robotics Modem is also available from CRS, P/N 110175.

Part # 250057

